



SAN ANTONIO RIVER AUTHORITY

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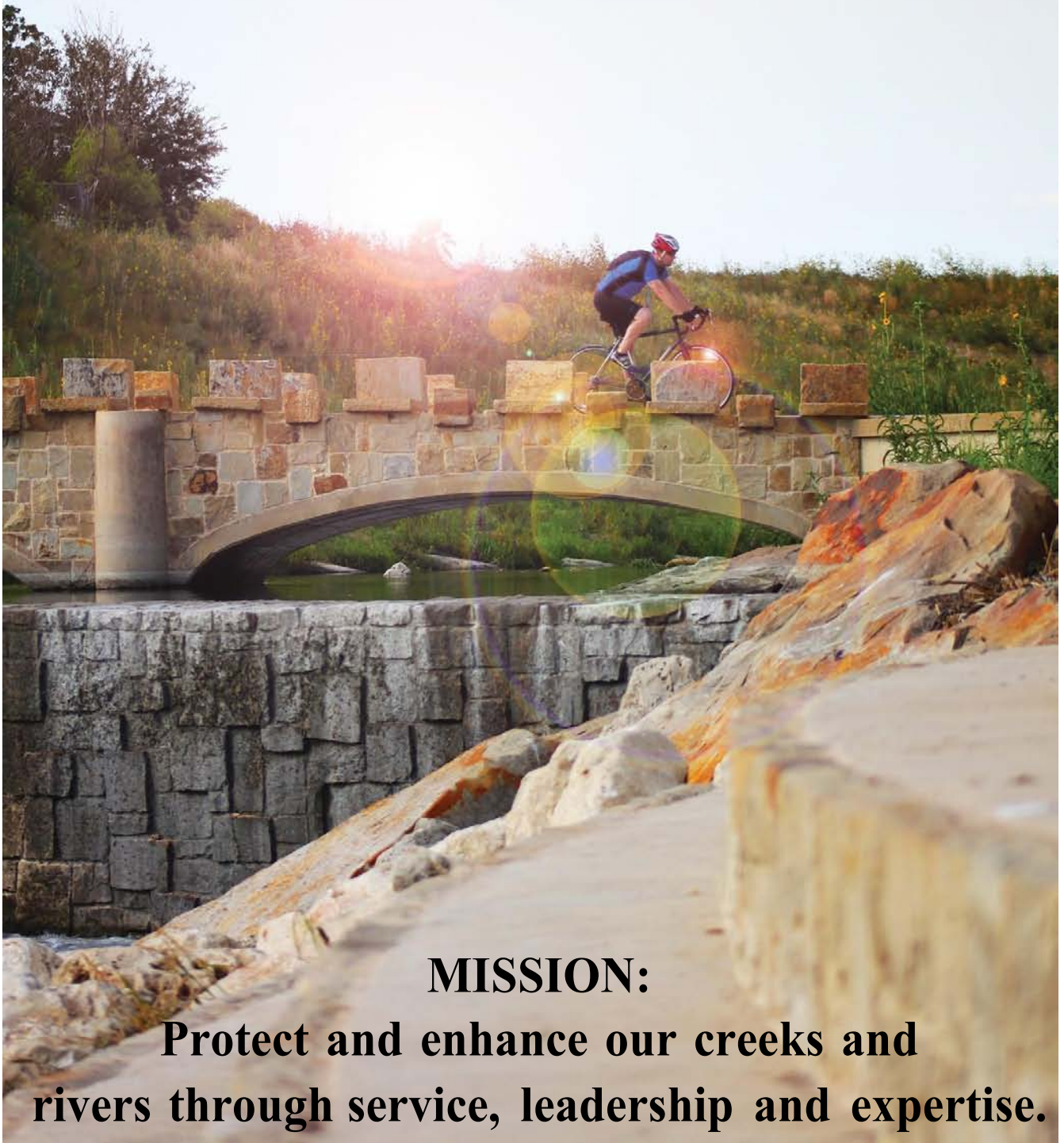


ANNUAL BUDGET DETAIL

Fiscal Year 2017-2018

VISION:

Inspiring Actions for Healthy Creeks and Rivers



MISSION:

Protect and enhance our creeks and rivers through service, leadership and expertise.



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**SAN ANTONIO RIVER AUTHORITY
TEXAS**

ANNUAL BUDGET AND WORK PLAN

July 1, 2017 - June 30, 2018

Presented to the
Board of Directors

<u>Name</u>	<u>Title</u>	<u>County</u>
Michael W. Lackey, P.E.	Chairman	Bexar County, District 3
Gaylon J. Oehlke	Vice-Chair	Karnes County
Hector R. Morales	Secretary	Bexar County, At-Large
Darrell T. Brownlow, Ph.D.	Treasurer	Wilson County
James Fuller	Executive Committee Member	Goliad County
Lourdes Galvan	Executive Committee Member	Bexar County, District 2
Jim Campbell		Bexar County, District 4
Alicia Lott Cowley		Goliad County
John J. Flieller		Wilson County
Jerry G. Gonzales		Bexar County, District 1
Lynn F. Murphy		Bexar County, At-Large
H.B. Ruckman III		Karnes County

Management

<u>Name</u>	<u>Title</u>
Suzanne B. Scott	General Manager
Stephen T. Graham, P.E.	Assistant General Manager
Allison Elder	Director of Legal Services
John A. Chisholm III	Director of Operations
Bruce E. Knott, MHR	Director of Human Resources
Deborah A. Korinchock	Director of Support Services
Steven J. Raabe, P.E.	Director of Technical Services
Steven Schauer	Director of Government and Public Affairs
Melissa Bryant, P.E.	Environmental Sciences Manager
John Gomez	Utilities Manager
Kristen Hansen	Watershed and Park Operations Manager
Claude Harding	Real Estate Manager
Patrice Melancon, P.E.	Watershed Engineering Manager
Susan Rios, CPA	Accounting Manager
Alexander Rodriguez	Information Technology Manager
Rick Trefzer, CMA	Budget Services Manager



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May 5, 2017

To the San Antonio River Authority Board of Directors:

The San Antonio River Authority’s FY 2017/18 Proposed Budget and Work Plan is presented for your consideration. The proposed budget continues to support the mission, goals and objectives of the San Antonio River Authority’s (River Authority) approved strategic plan. Programs, projects, and departmental activities included in the work plan for FY 2017/18 provide services to the citizens and stakeholders throughout the district.

Again this year, the budget development process began with a review and update to the River Authority’s strategic plan. The Vision, Mission, and Core Values are unchanged. The Agency Goals are essentially the same with some clarifying language added. As is the case every year, the Annual Objectives and Strategic Opportunities have been updated to reflect activities completed and new challenges and opportunities. These objectives and opportunities, described in the strategic plan, and the action items associated with them are then brought into each department’s budget. The resources allocated in the proposed budget provide the means for the departments to execute their work plans.

The vision and mission of the River Authority are included here. The strategic plan summary and annual action plan developed to meet agency goals and strategic opportunities are detailed within the objectives in the strategic plan summary immediately following this letter. Departmental activities in support of the strategic plan are contained in each department’s section of this book. Progress toward the objectives is tracked quarterly and reported to the various Board of Directors (Board) committees.

Vision Statement

Inspiring Actions for Healthy Creeks and Rivers

Mission Statement

Protect and enhance our creeks and rivers through service, leadership and expertise

The development of the proposed budget is influenced by many factors along with the strategic plan. More than many public entities, the River Authority is dependent on the activities and funding capabilities of our public sector partners. Working with its partners, the River Authority has established itself as an effective project manager for major capital improvements in and along the San Antonio River and its tributaries.

EXECUTIVE COMMITTEE



CHAIRMAN

Michael W. Lackey, P.E.

VICE CHAIRMAN

Gaylon J. Oehlke

SECRETARY

Hector R. Morales

TREASURER

Darrell T. Brownlow, Ph.D.

MEMBERS-AT-LARGE

James Fuller

Lourdes Galvan



BOARD OF DIRECTORS

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DISTRICT 1

Jerry G. Gonzales

DISTRICT 2

Lourdes Galvan

DISTRICT 3

Michael W. Lackey, P.E.

DISTRICT 4

Jim Campbell

AT-LARGE

Hector R. Morales

Lynn F. Murphy

WILSON COUNTY

Darrell T. Brownlow, Ph.D.

John J. Flieller

KARNES COUNTY

H.B. Ruckman, III

Gaylon J. Oehlke

GOLIAD COUNTY

James Fuller

Alicia Lott Cowley



GENERAL MANAGER

Suzanne Scott

The current major improvement project of this type is the San Pedro Creek Improvements Project investments by Bexar County and the City of San Antonio. This capital project is supported by a significant staff effort and financial support from the River Authority. The first segment of the project will open in May 2018 which will initiate the River Authority's investment in the operations and maintenance of the completed segment. Other partner funded projects include continued enhancements to the City of San Antonio linear creek greenway projects along the Westside Creeks, Brooks City Base trails as well as the development of Escondido Park in Karnes County.

As stated, capital improvement project management – both for River Authority and partner funded projects – is a key activity for the River Authority. Operations and maintenance of parks and existing and newly developed amenities and natural areas along the San Antonio River and its tributaries is a second key activity for us. Other important activities include: increasing community involvement and commitment to River Authority parks; laboratory services; watershed modeling, master planning, and prediction of watershed behavior; operation and maintenance of forty-one flood control dams; wastewater collection and treatment; scientific data collection and analysis; making our information and data accessible and useful to our partners and citizens; and utility system management and master planning. These contributions to the communities and watersheds drive the annual work plan and budgeted resources.

The River Authority, over the last several years, has continued to see an increased demand for our high quality services. The challenge becomes growing those services within our own and our partners' budgetary constraints. The River Authority's property tax rate is capped at two cents per \$100 valuation; the proposed rate for the FY 2017/18 Budget remains at the current 1.729 cents. The legislative initiatives to reduce the property tax rollback rate from eight percent to four or five percent could also impact our service delivery and growth opportunities.

Personnel related costs are a major component of the River Authority's operating budgets – both in the General Fund and the Utility Systems. In the General Fund, staff related expenditures (salary and benefits) represent 54 percent of the total operating budget. In the Utility Systems, the personnel expenditures total 29 percent of the operating budget. Health insurance represents a significant portion of the benefits costs for employees. In FY 2017/18, the River Authority's contribution per employee is increasing. However, over the last two years, the River Authority has made a lump-sum transfer into the Insurance Fund in an amount about equal to the FY 2017/18 premium increase so the net impact to the FY 2017/18 Proposed Budget is minimal. Affordable health insurance remains a major budgetary issue.

The wastewater utility systems also work to provide high quality services – protecting the water quality of the San Antonio River and its tributaries – while managing rates. This challenge grows as the infrastructure in the system ages. The ten year capital improvement plan for the utilities shows the need for major investments in the systems' infrastructure over the next five years – both for expansion and replacements. The FY 2017/18 Proposed Budget includes funding for treatment plant and collection system infrastructure to address this need. The advancement of the Martinez IV Wastewater Treatment Plant recognizes that growth in the SARA Wastewater system is driving

additional infrastructure to support the area's needs. As a result, the rates for both the Salatrillo and San Antonio River Authority Wastewater Systems are proposed to increase. The rate model also indicates the need for further increases over the next five years in the Salatrillo Wastewater System and potentially the SARA Wastewater System. The proposed FY 2017/18 increases fully fund the systems' operational expenses as well as providing funding for capital improvements needed in the system.

Budget Overview

The FY 2017/18 Proposed Budget for the River Authority totals \$203,382,724 across all funds. This includes expenditure appropriations as well as all reserve funds. This represents an increase from the FY 2016/17 Adopted Budget mainly due to a significant increase in partner funding for capital improvement projects as well as increased revenues into the utility enterprise funds through rate adjustment and other financing sources.

The FY 2017/18 appropriations total \$203,382,724 which include reserves of \$35,190,552. Expenditures across all funds total \$168,192,171. This includes \$33,150,983 in the General Fund, \$99,144,553 for capital improvement projects, \$5,404,733 for debt service, and \$30,491,902 for all other expenditures. Revenues for FY 2017/18 are \$157,697,882 when all funds are included. Of this amount, \$30,731,189 are total General Fund revenues with \$27,062,143 or 88 percent from property tax. Other major revenue sources include utility charges for services of \$14,658,769, grant funds of \$6,526,498 and other intergovernmental revenue \$78,303,834 which incorporates funds from River Authority partners for capital improvement projects as well as for other purposes.

General Fund

Revenues for the General Fund for FY 2017/18 total \$30,731,189, an increase of \$1,326,975 or 5 percent from the FY 2016/17 estimates and \$1,445,974 higher compared to the FY 2016/17 Amended Budget. Of the total revenues amount, \$27,062,143 comes from property taxes, \$2,302,631 from support fees paid by the utilities for services provided by General Fund staff (human resources, finance, facilities, Intergovernmental and Community Relations, etc.), and \$705,969 from charges for services such as laboratory fees.

As stated, the FY 2017/18 Proposed Budget includes property tax revenue of \$27,062,143, an increase of 5 percent in comparison to the FY 2016/17 Amended Budget. This increase is driven entirely by changes in property values as the budget is based on the current tax rate of 1.729 cents per \$100 of valuation. Three counties – Bexar, Karnes and Goliad – are projecting value increases, while Wilson County is forecasting a small decrease in values. The increased property value behind the projected revenues from property taxes support leaving the tax rate unchanged for the upcoming fiscal year.

No change in the tax rate is proposed. Property value changes are projected to vary by county with three counties showing an increase in value: Bexar County values have been estimated by the Bexar Appraisal District to increase between 5 and 9 percent. The Proposed Budget includes increase values of 5 percent for Bexar County as protests can affect the final certified values.

Goliad County includes a 5.7 percent decrease in values, Karnes County represents a 8.5 percent increase in values, Wilson is reporting a 3.5 percent increase. All of the preceding information is based on preliminary information provided by the appraisal district for that county as of April 30, 2017.

The General Fund FY 2017/18 Budget Appropriations total \$41,107,915 with \$33,150,983 for expenditures and \$7,956,932 in the operating reserve. The appropriation represents a small increase in comparison to the FY 2016/17 Amended Budget. This 3 percent increase a result mainly resulting from new operating and capital requests and a decrease in reimbursements from partners that directly offset General Fund personnel expenditures.

The appropriation include personnel expenses of \$17,965,651, operations expenses, such as supplies and contractual services, of \$12,165,164 and capital outlay of \$1,104,897 for equipment purchases and other major improvements. Of the total expenditure budget, \$2,917,744 of General Fund revenue is appropriated 50 authorized projects, 41 of which began prior to FY 2017/18 and are carried forward into FY 2017/18, another 5 projects that are commencing in FY 2017/18 and 4 of which are authorized without identified funding within the budget document.

Departments' operating costs make up most of the \$12,165,164 in operations expenses in the General Fund. Nine new positions are included in the proposed budget: one document control position; one part time custodian; four new Watershed and Parks Operations (WPO) field positions added to the two positions created in FY 2016/17 to create crews to operate and maintain the initial phase of the San Pedro Creek Improvements project; and one engineer, one project manager and one engineering technician. The proposed budget also includes five new limited term employee positions: one in Environmental Sciences – Laboratory to support implementation of the new laboratory management software, one in Intergovernmental and Community Relations to assist with web development for the Watershed Wise River Discovery Project and three in Information Technology to help address the backlog of development and geographic information systems work. The net cost of all new position changes is \$803,265.

The majority of the new positions are focused in two areas – operations and maintenance of improved areas along the banks of the San Antonio River and the initial completed segment of the San Pedro Creek project and in information technology. As described above, these are both critical areas to the River Authority's service to the community and the ability to provide that service efficiently and effectively. The document management position will provide needed support both to the River Authority's legal team and the procurement team to increase our ability to manage contracts and other critical documents – both electronically and on paper. The engineering positions will help manage the growing workload in Watershed Engineering. The engineer position will be partially funded by FEMA as the position will focus on LOMRs and related activities.

Fiscal Year 2017/18 Projects

The River Authority has 69 active projects across the General Fund, Park Resources Development Fund, utilities enterprise funds and other capital project funds, in the FY 2017/18 budget. The

projects are coordinated through six program managed by assigned Program Leaders with authority to manage and direct the projects within their portfolio. Program Leaders develop annual objectives, report progress and are accountable to the executive staff for achieving programmatic results. Those programs include: Natural Resource Protection Program; Nature Based Park Program; Sustainable Watersheds Implementation Program; Watershed Modeling, Studies and Planning Program; Watershed Safety and Response Program; and the Utilities Program.

For FY 2017/18, 50 projects are proposed to be funded with General Fund funds. The total additional funding for these projects in FY 2017/18 is \$2,917,744. Each of these projects helps further the River Authority's mission and supports the strategic plan included within the index section of the budget document). Additional projects will be managed by River Authority staff that are funded by various partners including the City of San Antonio, Bexar County, federal grant funds, state grant funds as well as others. These projects have total budgeted funding of \$84,830,332. The projects' activities are focused regionally, expand the River Authority's expertise, promote appreciation of the river, and advance sustainability and environmental stewardship. The five new projects funded in FY 2017/18 include Impervious Cover Mitigation (\$256,482), Digital Data and Model Repository (D2MR) Redevelopment (\$140,000), Upgrading of Electrical Infrastructure on Museum Reach (\$360,000), Clean Rivers Program 2017 – SARA Stream Monitoring (\$23,000), and Facilities Acquisition and Improvements Project (\$500,000). Other projects include continued improvements to and completion of watershed masters plans and tributary models (\$300,000), Mission Reach erosion repairs (\$400,000), continued work on the Watershed Wise River Discovery project (\$250,000), road improvements, park flood alert systems and barge access at John William Helton San Antonio River Nature Park (\$175,000), the Watershed Wise Rebate Program (\$500,000), feral hog management (\$75,000) and completion of the Mission Reach Avian Study (\$75,000). Other projects as provided in the Capital Projects section of the budget document make up the full funding recommendation of \$2,917,744.

In addition to the information provided above, a description of each project and, in the case of General Fund funded projects, a statement of how the project furthers the River Authority's mission, is included in the Capital Projects section of this FY 2017/18 Budget document.

Utility Operating Funds

The San Antonio River Authority (SARA) Wastewater System Operating Fund's expenditures for FY 2017/18 total \$9,504,265, a slight reduction as compared to the FY 2016/17 Amended Budget. The revenues for the fund are \$9,682,888 for FY 2017/18, an increase of \$1,023,831 or almost 12 percent in comparison to the FY 2016/17 Amended Budget.

Staff continues to refine the redesigned rate development model which was again used in FY 2017/18 to establish rates that reflect the ten year capital improvement plan for the utility as well the current financial strategy for funding that plan. The plan funds the design and construction of the Martinez IV Wastewater Treatment Plant that began in February 2017. Costs for this project are funded mainly through a \$9.5 million debt issuance. Staff is working with the Texas Water Development Board to achieve a below market interest rate for this debt. The proposed rates will provide sufficient funds to pay that increased debt expense. In addition, a transfer into the SARA

Wastewater System Construction and Improvements Fund of \$2,300,000 is budgeted to help fund additional current and future capital improvement projects identified in the ten year capital improvement plan. Operating cost for this system is relatively flat and represents very little change in the O&M current level of year. No new staffing is proposed for the utility systems. New and replacement equipment is funded in the SARA Wastewater System at a total cost of \$331,500.

Rates for the SARA Wastewater System are proposed to increase, with a net impact to the residential customer of 10.5 percent, based on the proposed change in rate and applying the new system winter average to FY 2016/17 rates. The revenue is sufficient to cover all operating costs of the system.

For FY 2017/18, the Salatrillo Operating Fund's expenditures total \$4,616,219, an increase of \$1,032,822 or 28 percent in comparison to the FY 2016/17 Amended Budget. Increased expenditures are primarily supporting investment in the Renewal and Replacement Program for capital equipment in next fiscal year. Additionally, further adjustment to the personnel allocation percentage shared with the SARA Wastewater System has increased the personnel and support fee components of the operating budget. In FY 2017/18, more of the cost of the utility system's staff time was charged to Salatrillo, better representing the time and effort required to operate and maintain this plant. This change has been phased in to mitigate the impact to both the SARA Wastewater and Salatrillo Wastewater systems. For FY 2017/18, the staff time percentage split is 35 percent for Salatrillo and 65 percent for the SARA Wastewater system. This operating fund will not be able to budget a transfer to the Salatrillo Construction and Improvements Fund for future capital improvement projects next fiscal year. This decision to forgo a transfer has been made to lessen the impact of increases in the monthly charge to the cities served by the Salatrillo Wastewater Plant.

Revenues for FY 2017/18 in the Salatrillo Operating Fund are \$4,605,881, reflecting a \$916,764 or 25 percent increase from the FY 2016/17 Amended Budget. This is primarily driven by proposed rate increases necessary to improve the cash position and ability to fund the ten year capital improvement plan for the Salatrillo System. All other revenue sources remain relatively flat in FY 2017/18 in comparison to the FY 2016/17 estimate.

Rates for the Salatrillo Wastewater System are also proposed to increase, with a net impact to the residential customer of 21 percent, based on the proposed change in rate and applying the new system winter average to FY 2016/17 rates. The current rates for the Salatrillo system are among the lowest in the Bexar County and surrounding areas. The significant increase in rates is needed to fund both operating expenses and the ten year capital improvement plan for the system. Plant infrastructure is aging and a more aggressive replacement/upgrade program is now in place, a factor in the proposed increasing rates. Even with the rate increase, the Salatrillo system rates will continue to among the lowest in the surrounding communities.

The River Authority will continue to work with the partner cities in this system – Live Oak, Converse and Universal City – to implement agreed upon strategies to invest in and reduce inflow and infiltration into the system caused by deteriorating collection system infrastructure. These

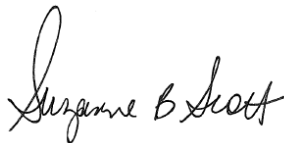
efforts will help push the plant expansion into later years. The current ten year plan has the plant expansion occurring in 2023.

All the utility operating funds meet the target fund balance requirement of three months operating expenditures net of transfers and project costs.

Conclusion

The River Authority takes pride in our dedication to the highest level of customer service both to the communities we serve and to our partners. In all that the River Authority does, we strive to provide valued public service, to be accountable to our constituents, and to be good fiscal stewards of the public resources with which we are entrusted. The budget, work plan, programs, projects and activities presented in this document are provided to promote quality service and responsiveness to the needs of the community.

Respectfully submitted,



SUZANNE B. SCOTT
General Manager



STEPHEN T. GRAHAM
Assistant General Manager



DEBORAH A. KORINCHOCK
Director of Support Services



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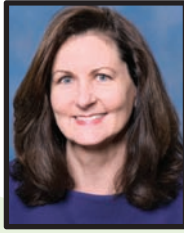
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At Large**
Hector R. Morales



**Bexar County
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Lynn F. Murphy



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Goliad County
James Fuller

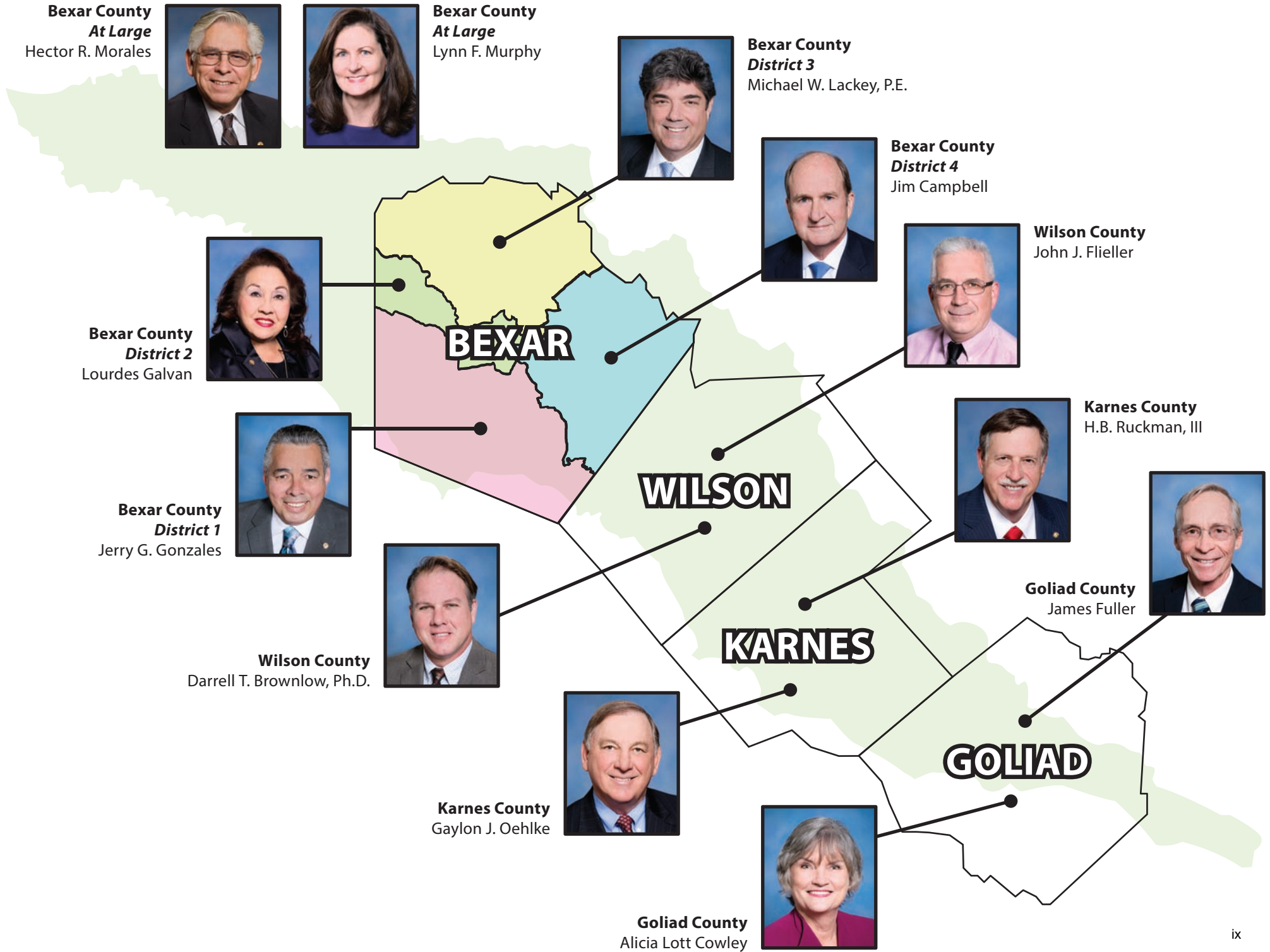
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Alicia Lott Cowley





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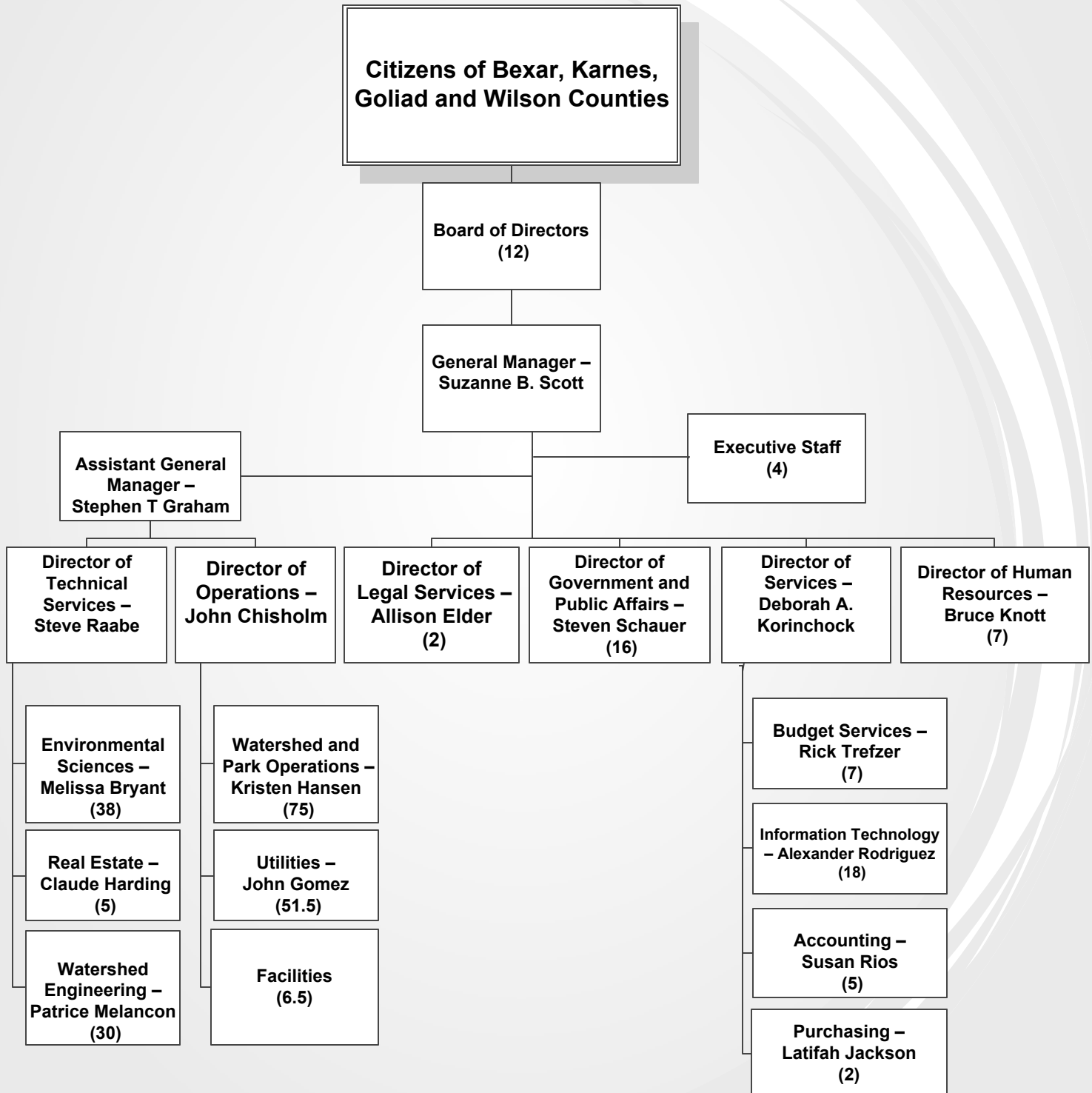
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Fiscal Year 2017/18 Adopted Budget Highlights and Trends

Introduction

This section supplements the Budget Message dated May 5, 2017 drafted as part of the Proposed Budget. It provides a revised general overview of the budget as well as a discussion of additional budget analysis, trends and forecast. The information directly below is further described in greater detail throughout the annual detail budget book. Detailed explanations for items within San Antonio River Authority (River Authority) departments may be found under the General Fund or Utility Funds tab, while full descriptions for projects are located behind the appropriate fund in either the Special Revenue Funds or Capital Projects tabs as well as in the separate Program Budget Book.

Budget Overview

The San Antonio River Authority (River Authority) staff developed the fiscal year (FY) 2017/18 budget based on the existing tax rate of 1.729 cents per \$100 valuation, unchanged for the third consecutive fiscal year. The FY 2017/18 annual budget provides funding for the current level of services, and funds additional investments in resources primarily related to technology enhancements, capital equipment and field support for operation and maintenance improvements along the creeks and rivers. A total of nine new full time, permanent positions are included in the FY 2017/18 Budget.

Since proposed on May 5, 2017, the Adopted Budget was revised to include just over \$38.6 million in additions and changes. All new activity presented and included as part of the adoption process was related to capital improvement projects. Most significantly, \$26.4 million was added to the San Pedro Creek project as a result of an amendment to the River Authority's current agreement with Bexar County. Additionally, the U.S Army Corp of Engineers provided notice that \$10 million has been appropriated as part of their Fiscal Year 2017 Work Plan to reimburse expenditures funded by Bexar County on the Mission Reach project. Other adjustments include: the Broadway Underpass Construction (\$1,361,376), Escondido Creek Parkway additional funding (\$600,000), San Pedro Creek – SARA funding to support website and “app” development (\$270,000), and the Facilities Acquisition/Improvements Project (\$100,000) for land acquisition.

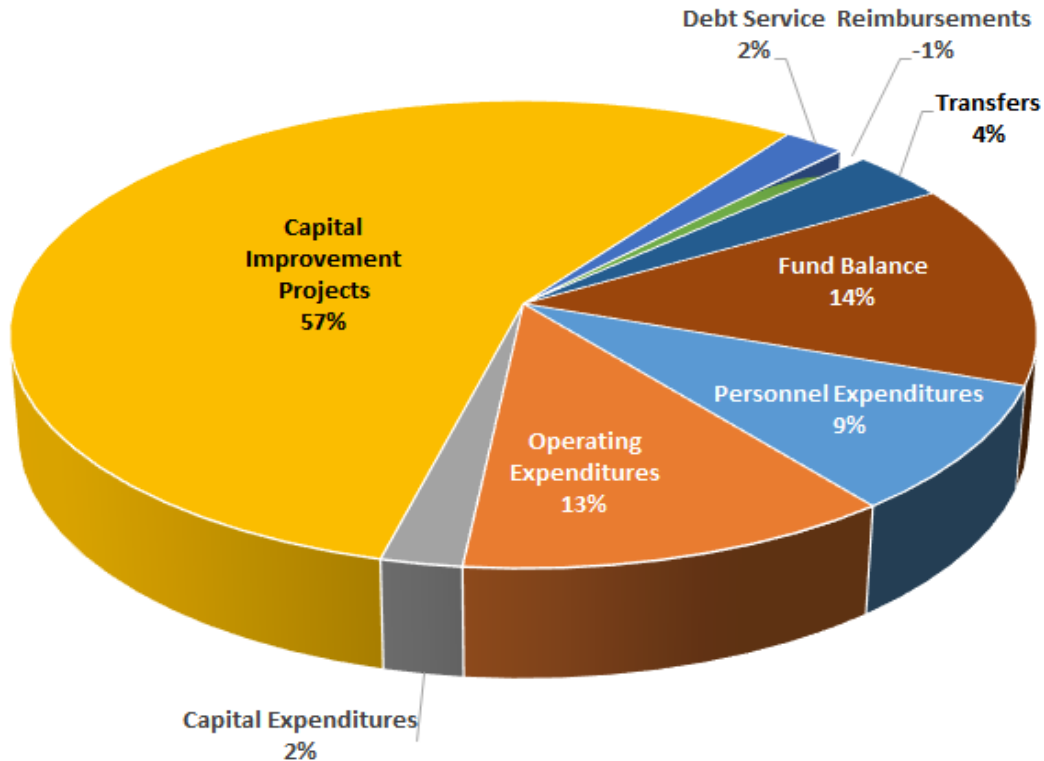
The FY 2017/18 Adopted Budget appropriation totals \$241,753,880 including all reserves. Expenditures across all funds total \$206,883,328. This includes \$33,150,98 in the General Fund, \$143,690,919 within all capital improvement funds, \$5,404,733 for debt service payments (including utilities), \$12,920,598 for utility operations (excluding debt service), and \$11,716,095 for all other funds' expenditures.

The reserves across all funds total \$34,870,552 across all funds. Of this amount, the General Fund has an operating reserve of \$8,006,932, the San Antonio River Authority Project Fund has an unrestricted reserve of \$6,002,082, the utility operating funds have reserves of \$5,004,445, the utility construction funds hold \$9,692,661 with \$3,997,272 of that amount from impact fees, the

Debt Service Fund has \$4,478,364, the self-insurance fund has \$1,253,047 and the remaining \$433,021 is spread across all the other special revenue and capital improvement funds.

The Total Appropriations percentage breakout by expense classification including expenditures and reserves (fund balance) is provided below.

FY 2017/18 Total Appropriations

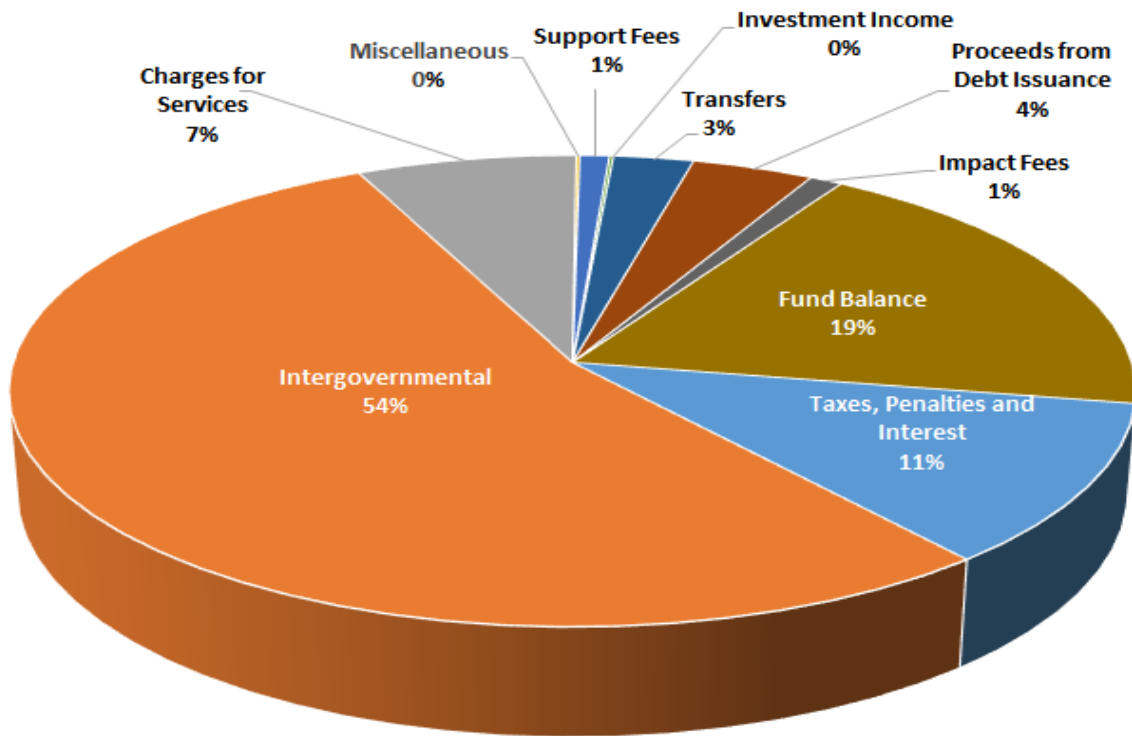


Personnel Expenditures	\$	21,992,745
Operating Expenditures		30,074,949
Capital Expenditures		5,624,288
Capital Improvement Projects		137,735,711
Debt Service		5,404,733
Reimbursements		(2,493,745)
Transfers		8,544,647
Fund Balance		34,870,552
Total Appropriations	\$	241,753,880

Revenues for FY 2017/18 Adopted Budget are \$196,069,039 when all funds are included. Of this amount, \$30,781,189 are total General Fund revenues with \$27,062,143 or 88 percent from

property tax. Other major revenue sources across all funds include utility charges for services of \$14,599,769, grant funds of \$6,526,498, revenue to capital improvement funds of \$136,017,945 which incorporates funds from River Authority partners for capital improvement projects, and \$8,143,638 for all other revenues across funds. Including carry forward fund balance reserves brings the total available funds to \$241,753,881. Total Available Funds percentage breakout by classification is provided directly below.

FY 2017/18 Total Available Funds



Taxes, Penalties and Interest	\$	27,062,143
Intergovernmental		130,692,952
Charges for Services		17,136,415
Miscellaneous		272,813
Support Fees		2,302,631
Investment Income		309,018
Transfers		6,242,016
Proceeds from Debt Issuance		9,500,000
Impact Fees		2,551,050
Fund Balance		45,684,843
Total Available Funds	\$	241,753,881

Also significant are the investments made by the General Fund in projects managed within the San Antonio River Authority Project Fund and other new resources authorized within department budgets. This investment totals \$5,640,652. Of that amount, \$2,917,744 in new funding in FY 2016/17 relates to projects and \$2,722,908 funds new resources which includes nine new full time employees (FTE), five limited term employees (LTE), technology investments, capital equipment purchases and various other services and improvements. The FY 2017/18 Adopted Budget includes a total of \$8,507,187 in funding for projects in the River Authority's Project Fund; this includes the \$2.917 million in new funding added to funds carried forward from FY 2016/17. The River Authority annually invests significant funding in projects that range from building construction, park improvements, engineering studies, stormwater rebates and many other programs and projects that further the organization's mission.

Budget Analysis

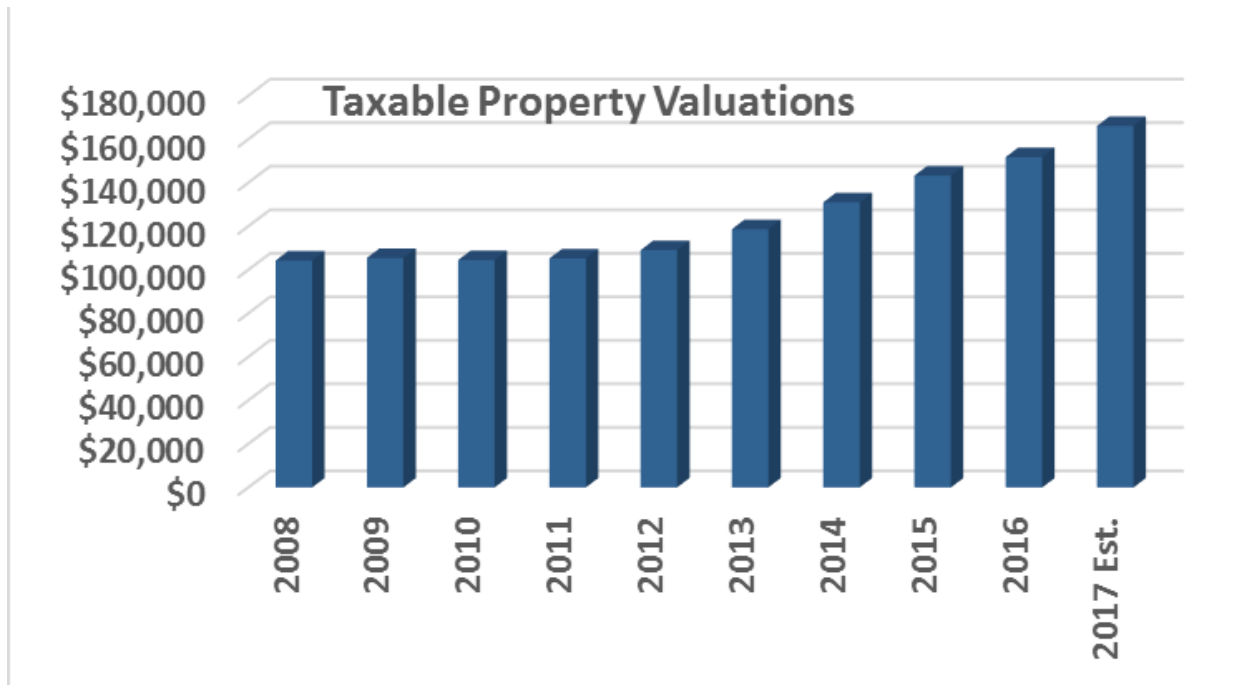
The River Authority completed a collaborative process involving members from all levels of the organization to develop, present and subsequently adopt the FY 2017/18 Budget. The General Fund and wastewater funds serve as the primary focus when determining the River Authority's priorities for operational activities and projects. Most other funds maintained by the River Authority are primarily driven by the objectives of partners who contribute funding for various projects and efforts performed. Highlighted below are some of the key budget discussion items that influenced the decisions made during the budget process.

Property Tax Revenues and Wastewater Rates

Over the last several years, taxable property valuations have seen steady and significant growth. This year was very similar to the past few years in terms of the factors that influenced the growth estimates used to inform the adopted annual budget. Robust property value increases in Bexar County and mineral rights values in the downstream counties were the two most significant issues. The activity in the Eagle Ford Shale area began to impact property values in Karnes County in 2011 and have fluctuated significantly since that time. As a point of reference, in FY 2016/17 Karnes County showed signs of giving back some of the tremendous growth in values that had occurred in the past several years by dropping nearly 40 percent and after posting values nearly 900 percent higher in 2015 than in 2010. FY 2017/18, Karnes County has reported a movement in the assessed value of mineral rights which could result in an increase of 20 percent. The more conservative Karnes County growth number utilized for revenue projection purposes for the adopted budget was 8.5 percent. The River Authority has been able to manage in this environment primarily due to the proportion that Bexar County represents of the tax revenue. In the FY 2017/18, tax revenues Bexar County will account for over 94 percent of the total property tax revenue. Karnes County is the next closest of the other three counties in the district at 3.5 percent. Wilson and Goliad round out the four county district by representing the remaining amounts, with nearly 2 percent and just under 1 percent respectively.

Overall, property values have grown for FY 2017/18, with Bexar County's growth estimated at 5 percent. A net result of all this activity has allowed the River Authority to maintain its property tax rate over the last three years while expanding programs and operations. This is particularly important because the River Authority has a statutory cap on the ad valorem tax rate of 2 cents per \$100 of valuation. The River Authority must adopt the budget prior to the certified values being

available from the appraisal districts. Therefore, annually the River Authority adopts the tax rate and determines the final property tax revenue post-budget adoption. Should additional revenue be available as a result of the certified values, the River Authority’s Board of Directors allocates that funding to important programs, projects and/or reserves.



For the wastewater utility systems, the River Authority continued to build on previous efforts related to the service/rate models and ten year capital improvement planning. Major capital investments, driven by either aging infrastructure or plant expansions, have been identified in the FY 2017/18 Adopted Budget for both the San Antonio River Authority (Martinez) and Salatrillo Wastewater Treatment Plant Systems. Adjustments to the wastewater rates, approved by the Board of Directors through ordinances, are incorporated in the budgeted revenues for the wastewater systems to help fund the rolling five year average of expected capital projects. The additional funding is necessary to ensure the quality and effectiveness of system operations. A new wastewater treatment plant will be constructed to respond to increased residential growth in the Martinez retail service area in northeast Bexar County. Investments to replace or upgrade aging infrastructure in the wholesale service areas within the cities of Converse, Live Oak, Universal City and Schertz are also planned for the upcoming fiscal year. Rate adjustments to utility customers will result in an average monthly increase of between \$2.36 (Salatrillo system) and \$4.03 (Martinez system) depending on the service area where they reside, beginning July 1, 2017 and are needed to ensure the financial health of Martinez and Salatrillo Wastewater collection and treatment systems.

Projects

The River Authority places emphasis on supporting internal and external projects. The organization will have sixty-nine formally authorized projects in FY 2017/18. This does not

include department efforts or other critical initiatives. Examples of these for the current and next fiscal year include work being performed to implement enhancements to technology systems, including but not limited to, the laboratory information management system (LIMS), the project management enterprise application (Clarity), the asset management system (Lucity), and the time keeping system (Kronos).

A key topic of discussion throughout the budget development process is related to capacity and the ability to close out existing projects prior to moving on to newly authorized projects or efforts. Fewer proposed projects were submitted during the budget development process (in comparison to prior years) which lends support to the importance of this issue. In addition, as decisions were made to allocate new resource requests, alignment with capacity and ability to execute was a primary consideration. This resulted in a significant decrease, from fifteen to five, in the number of new projects moving forward in the new fiscal year budget.

Staffing

In the FY 2017/18 Adopted Budget, costs associated with personnel increase nearly twelve percent as compared to the FY 2016/17 Adopted Budget. This increase is due to performance pay funding as well as increasing the number of authorized positions to 284, adding nine new full time employees (FTE) and five limited term employees (LTE). The River Authority continues to be challenged by factors such as market conditions, which make hiring the right talent more difficult, annual performance pay increases, and changing legislation which all contribute to these expenses that the River Authority expects to continue rising in coming years. Although the River Authority operates a self-insurance program, the cost of administration and claims continue to be impacted by the healthcare industry's changing landscape. In the FY 2017/18 Adopted Budget, an increased employer contribution has been 'institutionalized' to reflect the total cost of employee benefits in the personnel expenditure category. The prior two fiscal years have included one-time transfers from the General Fund to the Insurance Fund of over \$600,000 each year. Findings from an actuarial study helped inform the true amount needed to fund the self-insurance program through premium contributions. It is worth noting that this year's change is the first adjustment to the amount of the per employee employer contribution to the Insurance Fund in nearly ten years. This speaks to the efforts that have been made to encourage wellness and control the cost of the program through prevention and wellness activities.

As described in the previous section, providing resources, whether personnel or other, influenced decisions during the budget process. Investments included in the FY 2017/18 Adopted Budget further support the opening of San Pedro Creek in May of 2018. A total of six full time employees will be available to begin operation and maintenance activities. These resources are expected to become a recurring component of baseline operations for the Watershed and Park Operations Department. Additionally, built up demand and the continuous evolution of technology in the workplace have led the River Authority to authorize five LTEs that will supplement the existing Information Technology staff over the next year to help alleviate some of the existing capacity constraints. Finally, within the Watershed Engineering Department, it has been recognized that additional personnel resources are needed to ensure the ability to meet internal and external (partner funded) commitments. Three new FTE's within this department will support the existing pipeline of projects across the River authority and bring some workload in-house versus outsourcing certain activities. The nature of some of the identified work lends itself to generating

a partner reimbursement to help offset the additional personnel expenditures for the River Authority.

Budgeting

The San Antonio River Authority, as a steward of public funds, works diligently to accomplish its mission and serve the needs of the citizens in the district while respecting the financial impact of property taxes, wastewater system rates and other user fees. The FY 2017/18 Adopted Budget represents the results of balancing these commitments.

Trends and Forecast

Utility Enterprise

The wastewater utility enterprise is a significant but not always visible component of the River Authority's portfolio of services. In FY 2017/18, the utility enterprise accounts for budget appropriations of \$47.6 million when including the related operating and maintenance as well as capital improvement funds (seven in total).

- San Antonio River Authority (Martinez) Wastewater Treatment Plants (WWTP)
 - Over the next five years, the River Authority expects to invest \$26.4 million in capital improvements to the Martinez Wastewater System. The majority of these improvements will be focused on addressing aging infrastructure at the wastewater treatment plants and expanding capacity to meet demands within the River Authority's service area.
 - Construction of Phase I of the new Martinez IV WWTP is scheduled to be completed in May 2018 and have a capacity of 250,000 gallons per day (GPD). The total project budget is \$10,853,561. Initial operating costs are anticipated to be about \$80,000 annually. As flow increases and the plant expansions are completed, operating costs will increase. Upon completion, it is anticipated that the Martinez IV WWTP will replace the need for Martinez III which will then be decommissioned.
 - Over the past five years, the Martinez wastewater system has seen an average increase in single family residential connections of 2.4 percent per year, representing approximately 375 new connections annually. Over the next five years the River Authority estimates a 4.8 percent average annual increase in single family residential connections, representing approximately 750 connections per year. This increase in growth is based on recent activity in this service area and known development plans.
 - The River Authority currently has a ten year capital improvement and repair and replacement plan for this system. The rate model used to determine needed rate changes incorporates the plan's identified replacements and improvements.
 - The River Authority plans to develop a comprehensive operations and business plan to identify opportunities for actions that can be taken to stabilize the customer rates and operating costs going forward.
- Salatrillo Wastewater Treatment Plant
 - Over the next five years, the River Authority expects to invest \$12.2 million in capital improvements to the Salatrillo wastewater system. The majority of these

improvements will be focused on addressing aging infrastructure at the wastewater treatment plant. Within the ten year horizon, the total anticipated amount of funding needed is \$35.4 million, which includes the \$12.2 mentioned above.

- The Salatrillo Plant Expansion project is estimated to cost \$16.5 million and will increase the plant capacity from 5.83 million gallons per day (MGD) to 7.33 MGD. Increased capacity may be needed to stay within the permitted capacity. Flows are currently at 88 percent of the annual average permitted by TCEQ. TCEQ requires expansion at 90 percent of average permitted flow. Increased efforts to reduce inflow and infiltration may help to delay this projected expansion.
- Over the past five years the Salatrillo System has seen an average increase in single family residential connections of 2.6 percent per year, representing approximately 430 connections per year. Over the next five years the River Authority anticipates this average annual increase to remain at the same rate.
- The River Authority currently has a ten year capital improvement and repair and replacement plan for this system as well. The rate model used to determine needed rate also changes incorporates the plan's identified replacements and improvements.
- Based on current growth in the system and the capital improvements needed over the next ten years, River Authority staff are projecting double-digit rate increases for multiple years. When compared to other comparable systems, the existing rates are currently near the lowest.
- Randolph Air Force Base Wastewater Operations Agreement
 - The River Authority provides wastewater collection system management services for the Randolph Air Force Base. That contract requires the River Authority to make annual improvements to that system. The River Authority is entering Year 15 of the Randolph Renewals and Replacements Program. Going forward, staff will explore different funding options to group multiple years of projects together. Over the life of the contract, grouping projects will create efficiencies and potentially result in lower costs for the contractually obligated improvements.

Operation and Maintenance

The River Authority has continued to increase the scope of responsibility of operation and maintenance related activities. Projects such as the Mission and Museum Reach, various parks and additional paddling trails under the purview of the River Authority, and partnerships with government entities for the management of dams are a large part of the operation and maintenance activity. Additionally, the River Authority works with the National Park Service in support of areas near the missions, recently designated as a World Heritage site. Looking forward, the River Authority expects this sector of business to continue to increase given the ability to deliver quality results. The River Authority works diligently to balance the increased operations and maintenance activities and costs with the work to advance the science and engineering of water quality and quantity. The River Authority's property tax revenue growth is constrained by a cap on the property tax rate of 2 cents. Going forward, the River Authority will continue to work with other public entities in the Authority's boundaries to maximize opportunities for funding from these partners as well as from the shared constituents served.

- The River Authority will provide operations and maintenance services along the San Pedro Creek Improvements Project as the project's segments are completed. Phase I will

complete in time for the City of San Antonio's 300th anniversary in May 2018. The adopted budget in FY 2017/18 for these operation and maintenance services as the activity starts up is \$928,000 million (with two months of supplies and services budgeted and \$452,000 in capital expenditures for equipment). It is anticipated that these costs will increase as future phases are completed. In 2020, the estimated cost for operations and maintenance activities for all four phases and IV is approximately \$2 million annually.

- The Escondido Creek Parkway Improvements Project in Karnes County is expected to be completed in 2020. The estimated cost for operations and maintenance activities is between \$275,000 and \$300,000.

Renewal and Replacement

In FY 2017/18, a formal replacement program for the organization's assets will be developed. The replacement program will be designed to plan for the renewal and replacement of existing equipment and other capital assets including vehicles, laboratory equipment, technology, construction equipment, park and trail infrastructure, etc.

- The River Authority will continue to work with Bexar County to monitor and address major erosion issues on the Mission Reach project. The Mission Reach Erosion Repairs project identifies both major and minor repairs at various locations along the Mission Reach which will be prioritized and addressed as needed.
- The River Authority's NELAP (National Environmental Laboratory Accreditation Program) accredited laboratory will require adequate planning for the renewal and replacement of existing equipment and to identify opportunities to expand services, should that be the direction the River Authority takes for its laboratory services. Several aging pieces of equipment valued at approximately \$300,000 to \$400,000 (in total) have been identified as potential replacement needs over the next five years.
- The River Authority will continue to explore alternatives to its existing fleet strategy. The initial objectives are to develop standards for a replacement schedule and determine the appropriate balance between owned and rent-on-demand vehicles to support staff needs. In FY 2017/18, the fleet number will be reduced through the surplus of more vehicles than what are budgeted to be replaced across the organization.

Facilities

The River Authority is currently in the process of space planning with the assistance of outside consultants to identify future needs caused by expanding services and staff. Alternatives, to include opportunities to consolidate facilities, will be explored to develop a strategy to meet space needs for the five to ten year horizon.

- The FY 2017/18 Adopted Budget funds the identified need to evaluate and plan upgrades to the existing HVAC (heating, ventilation, and air conditioning) systems of the two main facilities utilized by the River Authority (Guenther and Euclid offices). Modifications to building and aging equipment have reduced the efficiency and reliability of existing systems.
- As the River Authority commences operation and maintenance responsibilities on the San Pedro Creek improvements, a location to stage these activities is also needed. Staff is currently exploring options.

General Fund Revenues

The General Fund, which accounts for all department operations, is funded primarily through the property taxing authority of the River Authority. Additionally, generated tax revenue allows for transfers to the San Antonio River Authority Project Fund that supports projects authorized by the Board of Directors. Property tax revenues are often part of the public debate and proposed legislation for the State of Texas's biannual legislative sessions. The outlook for this funding source is being closely watched to ensure that the ability of the River Authority to deliver on its mission and vision are not negatively impacted.

- Existing legislation sets a maximum rate of tax of two cents (\$.02) per \$100 of taxable property value that can be levied across the four counties served. The existing rate of tax is \$.01729 and generates about \$27 million annually.
- The FY 2017/18 Adopted Budget authorizes nearly \$2.5 million in expenditures above General Fund revenues. This is possible through the carry forward of previous year revenues not expended in the prior year(s). The addition of staff within the Watershed Engineering and Watershed and Park Operations departments may enhance the ability for departments to execute annual work plans, more fully expend funds and therefore reduce the budget carry forward in future years. Staff will be monitoring the cost of service provision to ensure that recurring operations expenses do not exceed the forecasted revenue generated through property taxes and other sources. Given the cap on the maximum tax rate, diversification of sources of revenue have been part of the River Authority's strategic plan. The River Authority also investigates and, when possible, pursues other revenue streams.
- Tremendous growth in property values for Bexar County (San Antonio) and downstream counties (mainly due to mineral values from fracking operations), have allowed for no recent increases in the River Authority's tax rate. Although there has been no change in rate for three consecutive years, there has been growth in revenues through the increase in values. Forecasts show that Bexar County, the largest source of property tax revenue, will continue to rise. Should this not materialize (another 2008 economic downturn, for example) and a decline in values is experienced, a negative impact to General Fund revenues would be the result. Changes in the Texas economy could heavily influence decisions related to the River Authority's tax rate in future years.

MISSION: PROTECT AND ENHANCE OUR CREEKS AND RIVERS THROUGH SERVICE, LEADERSHIP AND EXPERTISE

MARKETS: We serve a regional constituency and have global impact.



BEXAR • WILSON • KARNES • GOLIAD

WHAT SETS US APART:

- Action oriented, engaged and informed elected Board of Directors.
- Innovative, sustainable, collaborative, and results-oriented solutions.
- Experts in watershed management and ecology.
- Caring, dedicated and passionate people providing responsive public service.

CORE VALUES

Stewardship

- We care for our creeks and rivers as a valued natural and community resource.
- We exercise care in managing the public funds and resources entrusted to us.
- We care for our employees.

Integrity

- We are honest, ethical and reliable.
- We are accountable to and value the trust and confidence of the citizens and communities we serve, and each other.
- We value and promote transparent communications with the public.

Excellence

- We are committed to innovative, collaborative, adaptive and strategic actions that result in watershed solutions.
- We provide responsive service, leverage our experience and strive to advance our knowledge, skills and capabilities.

STRATEGIC OPPORTUNITIES

These are longer-term opportunities that with regular focus and attention could result in growth areas supporting our mission, vision, and core values.

- 1) Capitalize on SARA’s water quality data expertise and tools to influence and prepare for future changes to federal, state and local regulations as they relate to water quality and quantity management.
- 2) Define SARA’s role in the Smart Cities initiative and explore open data initiatives.
- 3) Make SARA’s data more accessible and usable (expanding the basin assessment strategy) with the ultimate goal of all data being accessed from a single entry point.
- 4) Achieve trash-free waters through education, advocacy and mitigation projects.
- 5) Advocate for the creation of the national estuary program for the San Antonio Bay.
- 6) Pursue implementation of the facilities expansion plan.
- 7) Continue to advance SARA’s role and influence in capital projects along creeks and rivers including, but not limited to, Westside Creeks Restoration Project, linear creekway projects and City of San Antonio bond projects.
- 8) Explore opportunities to apply SARA’s expertise and expand programs within all watersheds, with consideration given to the Upper Cibolo and Salado watershed projects.

AGENCY GOALS AND ANNUAL OBJECTIVES

Advance Watershed Health and Safety

Generate recognized and sustainable improvements to the health and safety of our creeks, rivers, estuaries and bays.

1. Update and expand existing flood control and water quality models, and develop additional data for unstudied areas.
2. Advocate for funding to upgrade Escondido Dams in Karnes County.
3. Ensure actionable measures are included in the Lower San Antonio River (LSAR) implementation plan and the Cibolo Creek Watershed Protection Plan to reduce E.coli pollution.
4. Implement incentives to reduce the infiltration and inflow treated at SARA's wastewater facilities.
5. Utilize San Antonio Bay EDYS model to evaluate the feasibility of marsh restoration on the Aransas National Wildlife Refuge and strategies for increasing bay and estuary inflow.
6. Promote healthy ecosystem dynamics of the Mission Reach and Westside Creeks by assessing native freshwater mussel survivability and aquatic toxicology.

Enhance Community Appreciation and Recreation

Enhance community engagement and appreciation for and recreational use of our creeks and rivers.

7. Increase the use of our parks by community groups.
8. Extend paddling trails and advance improvements at Escondido Creek Linear Parkway, Mann's Crossing and San Pedro Creek.
9. Finalize and implement San Pedro Creek operations and maintenance (O&M) and funding plans.
10. Develop and launch interactive modules and activities for the Watershed Wise River Discovery Project.

Implement Watershed Solutions

Advance and apply our expertise to influence, develop, and implement watershed solutions that balance the environmental, economic and quality of life needs of our communities.

11. Lead the technical analysis of impervious cover impacts and stormwater runoff to influence mitigation and policy decisions.
12. Integrate the watershed master plans and enhance their use in regional policy development and project decisions through the SA Tomorrow Regional Masterplans.
13. Secure approval for expansion of the Resource Conservation Partnership Program (RCPP) to restore and protect wetlands and marshes in the San Antonio Bay.

Build Strength-Based Teams and Expertise

Strengthen, develop and anticipate expertise at all levels and enhance results, improve service efficiencies, and build dynamic teams.

14. Plan and implement regular activities to strengthen interdepartmental interaction.
15. Foster and elevate employee self-awareness by providing assessments and training.
16. Utilize StrengthsFinders to optimize work teams.

Diversify and Leverage Resources

Diversify and leverage funding, technology, and people (employees, partners, community) to strengthen business processes and SARA service delivery.

17. Finalize asset management software implementation and build business processes to improve management of physical resources.
18. Enhance the disaster recovery and business continuity plans.
19. Implement processes that assist with human capital management (capacity planning) and work prioritization.
20. Build a business plan for growth and service delivery for the utility enterprise.
21. Develop a replacement program for the organization's assets.
22. Develop and implement technologies, policies and procedures that mitigate risks associated with cyber security.
23. Identify opportunities to foster relationships, share expertise and increase collaboration with other public entities, including River Authorities.

PERFORMANCE MEASURES

The San Antonio River Authority (River Authority) is continuing the practice of incorporating performance measures into the annual budget document. These measures are used as one tool with which to evaluate the health of the watershed and the organization's operations.

Some efforts and activities tracked below were initiated in Calendar Year (CY) 2010 as part of the River Health Index (RHI) initiative which set targets for the organization to achieve by CY 2020. The RHI is designed to measure improved stream health over a ten year period using scientific and engineering means. The data is compiled and reported annually to the River Authority's Board of Directors.

Scores in individual areas of the RHI are weighted and averaged to create a composite RHI value; however, many of the individual actions stand alone as key department performance measures. The RHI's four major categories are:

- *Public Safety* (20 percent weight) which includes structures in and removed from the flood plain
- *Environmental Protection* (50 percent weight) which has various components including E coli levels, miles of restored creeks, native plants coverage and diversity and wastewater system overflow reductions
- *Public Access* (20 percent weight) which includes park usage, paddling trails and debris management and
- *Public Awareness* (10 percent weight) which includes littering reduction.

Performance measures that are part of the RHI are signified with "RHI" after the description in the following matrices. The measures shown here designated as RHI have distinct goals for CY 2017 or FY 2017/18 based on more recent activity and may be different from the RHI annual goals which were established in 2010 for a ten year period. Not all performance measures are part of the RHI composite score. Some have been developed and tracked by departments over the last several years.

The River Authority also has several financial and project leverage indices that are tracked and reported annually to the Board of Directors. These indices were created to demonstrate how the River Authority leverages and diversifies its revenue with other funding sources such as partner and grant funds. These measures were refined and expanded in 2015 to include three financial leverage indices and three project leverage indices. These indices are explained below under General Government - Finance.

Fiscal Year (FY) 2016/17 was the first year that the River Authority published performance measures as part of the annual budget document. The objective is to continue improving the internal process of establishing goals and reporting as it relates to performance measures.

FY 2017/18 performance measures are reported by either calendar year (CY) or fiscal year (FY). For measures where a goal for FY 2016/17 was established, the "Result" column in the tables below will reflect whether the goal was met with green or light red fill in the box. Performance

measures that did not have an established goal will not have either fill color. Since this is the second year of reporting performance measures in the budget document and the program continues to be improved, measures may be establishing new baselines and not have historical data available.

Tracking and Reporting

Through the River Authority's annual strategic planning process, executive staff, department managers and project management staff meet over two days to evaluate, reaffirm and/or adjust each strategic planning goal. Once the goals are finalized, the team then identifies annual objectives to support and advance each goal. In FY 2017/18, twenty-three annual objectives were developed supporting five goals.

The strategic plan and its annual objectives are presented to the Board of Directors for input and adoption. Once the strategic plan is adopted, the annual objectives are disseminated among the teams responsible for implementing the annual objective and quarterly actions are established and assigned to a responsible individual or individuals, referred to as "champion."

As champion, the individual is responsible for ensuring completion of the action(s) within the established timeline and budget and reporting on the progress every quarter. The goals, annual objectives and quarterly actions are visible throughout the organization and can be found on the River Authority's intranet page. Below is an example of an annual objective and quarterly actions. The Board of Directors selects several annual objectives on which to receive quarterly reports. The status of these annual objectives is reported quarterly to the various Board committees that have responsibilities for certain aspects of the River Authority's business – Fiscal, Operations, and Communications. During a January special Board meeting, the Board focuses on strategic planning and kicking-off the budget process, and a briefing is provided on the status of all annual objectives. Likewise in September, the Board conducts a special meeting and receives a briefing on the outcome of the annual objectives from the past fiscal year and selects key annual objectives to be briefed on quarterly during the fiscal year.

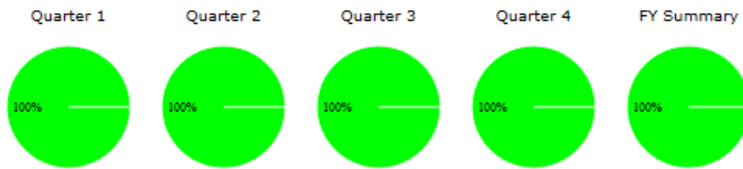
In addition to the Board presentations regarding objectives' progress, the executive team monitors all the objectives to ensure that the action items are progressing as expected – meeting time lines and budgets. If an objective is not on track, the executive sponsor of the related activities works with the responsible staff to understand the issues and challenges and assist in overcoming them so that the activities can move forward.

Another avenue for tracking measures is the River Health Index. Originally established in 2010, the River Health Index was created to demonstrate improved stream health over a ten year period using scientific and engineering measures. Annual benchmarks were established through 2020. There are four key areas and a total of thirteen measures. The results of these measures are scored and weighted to create a composite River Health Index value. Every January, the results are compiled and reviewed by staff. The Board of Directors is briefed on the past year's results and shown how the past year compared to previous years. The River Authority also has three Financial Leverage Indices and three Project Leverage Indices that are tracked and reported in the same manner as the River Health Index. These six measures are designed to evaluate the River Authority's success in leveraging and diversifying its revenue (a significant portion of which comes from property taxes) with other funding sources such as partner and grant funds.

The performance measurement program provides opportunities to highlight accomplishments, recognize areas needing adjustments, and communicates to staff, the Board of Directors and general public the status of the measures and their advancement of the organization’s goals.

Goal: Advance Watershed Health and Safety
Program: Natural Resource Protection

1. Utilize our capabilities to identify sources of E.coli and take actions to mitigate.
 - Quarter 1 – Train secondary analyst to demonstrate capability for bacterial source tracking testing
 - Quarter 2 – No action required
 - Quarter 3 – Develop and implementa additional biomarker for bacterial source tracking capabilities
 - Quarter 4 – Begin developing quantification procedures of fecal indicator bacteria using the bacterial source tracking methodology



Legend

Calendar Year	CY
Fiscal Year	FY
Performance Measure	PM
Performance Measure Goal ‘Met’	e.g. = 2.9
Performance Measure Goal ‘Not Met’	e.g. = 2.9
Performance Measure Goal ‘Not Established’	e.g. = 2.9

The performance measures are presented here under the River Authority department responsible for the program and information associated with it.

General Government

Finance

The financial and project leverage indices were created to demonstrate how the River Authority leverages and diversifies its revenue with other funding sources such as partner and grant funds.

Financial Leverage Indices:

Index 1: Illustrates how the River Authority performed in revenues not related to partner funded project revenues.

(Total General Fund + Special Revenue Fund – Flood Tax Revenue)/Total Property Taxes

Index 2: Illustrates how the River Authority leverages funding sources in comparison to property tax revenue; includes all revenue, partner funded projects, special revenues, grants, etc.

Total Revenue/Property Tax Revenue

Index 3: Illustrates how the River Authority diversifies funding through the acquisition of grants.

Total Grants Received/Property Tax Revenue

Project Leverage Indices:

Index 1: Illustrates how the River Authority performed in securing funding from partners for new projects beyond what is received in tax revenue.

Total Project Expenditures/Total Property Tax Revenue Received

Index 2: Illustrates how the River Authority performed in securing outside committed resources as a percent of the overall projects’ budgets.

River Authority Committed Funding/Total Budgeted Project Funds

Index 3: Illustrates how the River Authority is spending project funds, or how effectively projects are advancing, as a percent to the overall projects funding.

Total Project Expenditures/Total Budgeted Project Funds

Electronic Payment of Vendors: Finance monitors the percentage of vendors paid electronically. The goal is to increase this percent annually to improve payment services to both the vendor and River Authority.

Performance Measure	FY 2016 Actuals	FY 2017 Goal	FY 2017 Results *	FY 2018 Goal
<u>Financial Leverage Index (FLI)</u>				
Index 1	\$1.50	\$1.46	\$1.39	\$1.50
Index 2	\$3.42	\$3.25	\$2.99	\$3.25
Index 3	23%	20%	13%	15%
<u>Project Leverage Index (PLI)</u>				
Index 1	\$1.66	\$2.04	\$1.48	\$2.00
Index 2	13%	7%	14%	10%
Index 3	49%	32%	24%	30%
Percentage of vendors paid electronically	33.3%	37%	44%	48%

* Reflects actuals prior to completion of annual Comprehensive Annual Financial Report

Human Resources

The Human Resources department has identified safety and risk management as a key performance metric to monitor for continuous improvement. Three indicators that demonstrate performance in this area of operations are workers compensation claims, costs, and the experience modifier. The experience modifier is defined as the annual premium adjustment based upon previous year loss experience.

Performance Measure	FY 2016 Actuals	FY 2017 Goal	FY 2017 Results	FY 2018 Goal
Workers Compensation – Cost	\$8,430	\$8,009	\$11,794	\$15,000
Workers Compensation – Claims	12	11	14	15
Experience Modifier	1.07	1.02	0.93	=<1.0

Intergovernmental and Community Relations

The Intergovernmental and Community Relations (IGCR) Department communicates with, informs and educates the public and increases awareness of the River Authority’s identity, services and projects. Therefore, the River Authority tracks and reports social media followings.

Performance Measure	FY 2016 Actuals	FY 2017 Goal	FY 2017 Results	FY 2018 Goal
<u>Social Media Followers</u>				
Facebook	6,784	7,460	8,561	9,845
Twitter	11,300	12,430	12,808	14,730
Instagram	731	800	1,263	1,450

Program Support and Services

Environmental Sciences

The Environmental Sciences Department provides a wide range of services related to water quality and stormwater monitoring, laboratory operations, pollution investigations, data management and quality assurance, and water quality planning and assessments. The following measures are included in the adopted budget document.

Contact Recreation Standards: The River Authority measures contact recreation standards (126 or less E. Coli per 100 mL of water) in all segments of the river and its tributaries. The ultimate objective is to meet the standard at all times except within 72 hours of a storm event. A check in the box below means that the stream segment met this standard.

Performance Measure	Stream Segments	CY 2015 Actuals	CY 2016 Results	CY 2017 Projected
Stream segments meeting contact recreation standards (RHI)	1901 Lower San Antonio River	√		
	1901A Escondido Creek			
	1902 Lower Cibolo Creek			
	1902A Martinez Creek			
	1902B Salatrillo Creek	√	√	√
	1903 Medina River below Diversion Lake	√	√	√
	1905 Medina River above Medina Lake	√	√	√
	1905A N. Prong Medina River	√	√	√
	1906 Lower Leon Creek	√		
	1908 Upper Cibolo Creek		√	√
	1910 Salado Creek	√	√	√
	1911 Upper San Antonio River	√	√	√
	1911B Apache Creek	√	√	√
	1911C Alazan Creek	√	√	√
	1911D San Pedro Creek			
1912 Medio Creek				

Biological Monitoring of Fish: The Index of Biotic Integrity (IBI) assesses data from all biological sampling sites monitored by the River Authority and uses Texas Commission on Environmental Quality (TCEQ) methodology to determine an IBI score. The goal is a 50 percent improvement over 10 years in the IBI scores for sites in the San Antonio River Basin; this equates to an index score of 5.4. An index of 10 is indicative of all stations meeting their designated Aquatic Life Use as designated by TCEQ. This classifies a stream’s condition as exceptional, high, intermediate or limited based upon an array of metrics that reflect water pollution problems in the stream. The higher the score, the better the classification, meaning the better diversity of native species. The Environmental Sciences Department provides water quality and environmental monitoring, laboratory operations services and pollution investigation services to help determine this index value.

Pollution Investigations: The Environmental Science Department staff conducts field investigations when notified by the public, other public entities, or when environmental concerns are observed during the annual helicopter flyover of the San Antonio River. The results of the investigation are shared with the proper local, state or federal authorities for further investigation and enforcement if warranted. In some instances the River Authority remains engaged in the investigation to support the enforcing authorities and/or to keep the public informed.

Laboratory Sampling: The River Authority offers a full service National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory that provides water and soil testing. The customer base includes River Authority programs and projects as well as external customers – from individual landowners to public entities and private businesses. The performance measures shown below track the number of customers and samples.

Performance Measure	CY 2015 Actuals	CY 2016 Goal	CY 2016 Results	CY 2017 Goal
<u>Field Operations</u>				
Index of Biotic Integrity Value (RHI)	3.6	5.4	3.5	4.0
	FY 2016 Actuals	FY 2017 Goal	FY 2017 Results	FY 2018 Goal
<u>Field Operations</u>				
Pollution and Environmental Investigations	29	25	60	40
Sample Sites Monitored	55	61	79	83
<u>Laboratory Operations</u>				
Laboratory Samples Received	7,629	7,700	7,720	7,200
Laboratory Clients Served	143	150	132	125

Watershed Engineering

The Watershed Engineering Department provides technical and project management support for cities and counties within the River Authority’s jurisdiction to assist with floodplain administration, selection of regional models and modeling standards to reduce duplication and make decisions on a holistic watershed basis. To measure the results of these services, the following measures have been identified:

Structures in the Floodplain: This measure tracks the number of structures removed from the floodplain as delineated by the Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (DFIRM). The goal is to reduce the number from 18,906 (the number in 2010) to 9,048 by 2020.

Stream Restoration: This measure tracks the stream miles that have been restored through various programs and best management practices. The goal is to restore twenty-five stream miles by 2020 (measuring from 2010). A stream is considered restored when its physical, chemical and biological functions are improved. Physical functions might be improved reduction in bank erosion; chemical functions may include increased water quality; and biological functions may be diversity of fish, aquatic insects and other wildlife.

Non-Structural Capital Improvement Projects (CIP): This measure tracks capital improvement projects that incorporate non-structural best management practices and/or natural channel design techniques. Examples of these include: bioswales, rain gardens, bioretention, and pervious pavement. The goal is to accomplish twenty-four projects with at least twelve incorporating a best management practice or natural channel design by 2020.

Performance Measure	CY 2015 Actuals	CY 2016 Goal	CY 2016 Results	CY 2017 Goal
Floodplain - structures removed (RHI)	173	1,600	306	300
Stream Restoration – miles restored (RHI)	0	2	0.25	.05
Non-Structural CIP projects (RHI)	2*	1	4	6
<p>Note: Since 2011, 3,050 floodplain structures have been removed, 11 miles of stream have been restored and 11 non-structural CIP projects have been completed.</p> <p>* The two projects are Trinity University’s 3,800 square foot green roof and the installation of bioswales along Market Street.</p>				

Watershed and Park Operations

The Watershed and Park Operations (WPO) Department coordinates maintenance activities with the City of San Antonio’s Stormwater Operations Division on the San Antonio Channel Improvements/San Antonio River Improvements Project. WPO maintains a nine mile stretch of this project known as the Mission Reach and a 3.1 mile stretch called the Museum Reach. As part of the maintenance activity, WPO staff and contractors remove litter following storm events. The following describes the various performance measures reported by WPO.

Debris Management: Litter and debris management is an important focus of WPO. Removal of debris and litter in a timely manner is important to the health of the waterways as well as to the visitors’ experiences. The River Authority strives to remove reported debris within thirty days throughout the four county district. Within certain segments, particularly the Eagleland/Mission Reach, the goal is to have no significant floatable debris within fourteen days following a major rain event.

In FY 2017/18, the River Authority, in coordination with the City of San Antonio, will complete installation of trash booms and collectors along tributaries feeding into the Mission Reach to manage debris and litter removal faster and more efficiently. The performance measures below help track the River Authority’s ability to manage trash and debris in the waterways.

Native Plant Management Guidelines: Within the San Antonio River’s restored Eagleland and Mission Reach stretches, this measure tracks the objective of meeting or exceeding native plant management guidelines for coverage and species diversity. The goals are sixty percent native vegetation coverage throughout the planted areas, of which a minimum of fifty percent of the original planted species are present and the remaining fifty percent consist of a diverse native plant species distribution.

Park Operations – Trails and Participation: WPO’s recreation team set goals to increase attendance, improve visitor experience and improve access to the seven River Authority owned and/or managed parks. Through creating these opportunities, the River Authority is advancing its mission of inspiring actions for healthy creeks and rivers. The performance measures shown under Park Operations below reflect the activity and goals in this area of park operations. The River

Authority’s current goals include establishing fifty-five miles of paddling trails throughout the four county district. Park Programs are reflective of the Museum and Mission Reaches of the San Antonio River as well as seven parks, two of which are currently undeveloped and not open to the public.

Performance Measure	CY 2015 Actuals	CY 2016 Goal	CY 2016 Results	CY 2017 Goal
<u>Field Operations</u>				
Remove Floatable Debris – avg. days (RHI)	11	14	13	14
Litter Removed (in pounds) *	203,130		208,827	
Percent Native Plant Coverage (RHI) **	57%	60%	42%	60%
Percent Native Plant Diversity (RHI)	45%	50%	46%	50%
<u>Park Operations</u>				
Paddling Trails (miles) (RHI)	28.7	55	28.7	55
	FY 2016 Actuals	FY 2017 Goal	FY 2017 Results	FY 2018 Goal
Hike and Bike Trail Counts	683,433	717,604	699,285	735,000
Park Vehicle Counts	16,830	17,671	15,093	15,800
Park Program Participants (RHI)	21,089	22,143	20,209	21,200
* Litter removed is provided as information only				
** A plant previously categorized as native was reclassified to non-native, changing the native plant coverage percentage				

Utilities

The River Authority currently operates and maintains two distinct sanitary sewer systems that include collections systems as well as wastewater treatment plants. The utility staff works diligently to manage and reduce sanitary sewer overflows (SSO). SSO is when untreated sewage is discharged from a sanitary sewer collection system into the environment prior to reaching a sewage treatment facility. Through the RHI, Utilities has a goal of reducing occurrences from 3.07 per mile (the level in 2010) to 1.54 per mile by 2020. The following performance measures track SSO’s by utility systems.

Performance Measure	CY 2015 Actuals	CY 2016 Goal	CY 2016 Results	CY 2017 Goal
Sanitary Sewer Overflow (SSO) – Salatrillo System (RHI)	0.00	=< 0.36	0.00	=< 0.34
Sanitary Sewer Overflow (SSO) – Martinez System (RHI)	2.90	=< 1.79	2.19	=< 1.66



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

COMMUNITY AND ECONOMIC INFORMATION

District Profile

The San Antonio River Authority is a political subdivision of the State of Texas (Chapter 276, pg. 556, 45th legislature, as amended) and was created in 1937. The district covers 3,677 square miles in Bexar County, Goliad County, Wilson County and Karnes County. The population served totals 1,999,931 (in 2016) with 96 percent of the population residing in Bexar County (1,928,680) and the remaining counties as follows: Wilson at 48,480, Karnes at 15,254 and Goliad at 7,517. The San Antonio River is 250 miles long with 86 miles in Bexar and Wilson counties and 154 miles in Karnes and Goliad counties.

The River Authority is governed by a twelve member board of directors. Six are elected from Bexar County and two from each of the remaining three counties. Each member serves for six years. Policies established by the Board are executed by a management organization under the direction of the General Manager.

The River Authority provides a wide range of services, all in support of the mission of “Protect and enhance our creeks and rivers through service, leadership and expertise.” These services fall into several major categories – flood risk management, water resource development, environmental and water quality, wastewater utilities and parks. The River Authority works with local (City of San Antonio, the Edwards Aquifer Authority and Bexar County as well as others), State (Texas Parks and Wildlife, Texas Commission on Environmental Quality, etc.) and federal (Federal Emergency Management Agency (FEMA), U.S. Army Corp of Engineers and more) entities and coalitions (such as the Bexar Regional Watershed Management program) also to further the mission. The River Authority has a full service, National Environmental Laboratory Accreditation Conference (NELAC) accredited water quality laboratory. The River Authority actively monitors streams and river water quality through sampling programs, completes scientific analysis to use in directing resources and setting priorities, and monitors and evaluates various species in the watershed all the way to the San Antonio Bay. This includes several endangered species.

The River Authority also works with local and state entities to identify and potentially develop new water resources to meet the region’s water needs. The utility operations provides wastewater collection and treatment services concentrated in northeastern Bexar County. Utility staff also assists smaller cities and other public entities throughout the district with their wastewater systems’ operations and maintenance. The River Authority owns and maintains multiple parks and paddling trails throughout the district that offer citizens recreational and educational opportunities. There are three parks in Bexar County (River Crossing on the San Antonio River, Mann’s Crossing on the Medina River and Truehart Ranch), three in Wilson County (Jackson Nature Park, Helton San Antonio River Nature Park and Graytown Park on the San Antonio River) and one in Goliad County (Branch Nature Park). The parks and educational programs help increase environmental awareness of the river and its environs. Staff also provides maintenance and operations of forty-one dams throughout the district as well as operating and maintaining the improved areas of the riverwalk north and south of downtown (the Museum Reach and the Mission Reach), providing recreational opportunities in the miles-long stretch of hike and bike trails and associated amenities.

In 1961, an ad valorem tax of two cents per one hundred dollars assessed valuation was approved by the River Authority voters and was collected annually across the district at its maximum rate until 1980. The River Authority then did not levy this tax from 1981 through 2001, but in June 2002, the River Authority's Board of Directors, after approval of the five year service plan, reinstated the ad valorem property tax at 1.6425 cents per one hundred dollars valuation. Use of this tax revenue is limited to general administration, maintenance of completed projects and updating of the River Authority's master plan for water resource development. Revenues collected from this tax may not be pledged to debt service on any bonds used to construct flood control structures. The current adopted tax rate is 1.729 cents per \$100 of appraised valuation, only 5.3 percent greater than the tax rate in 2002. The average tax levied on a homestead is \$31.30 per year.

The River Authority has had a long standing partnership with Bexar County to complete flood control improvement projects. In 1951, Bexar County voters authorized an ad valorem levy of up to fifteen cents per one hundred dollars valuation of taxable property for flood control. The County has a serious flood problem as it is located in an area called Flash Flood Alley.

A 1955 contract with Bexar County and subsequent amendments have facilitated the River Authority's involvement in flood control improvement projects funded by the County's flood control tax. The River Authority has managed design and construction of the projects. The County is required to set a tax rate which, at 90 percent current collections, provides revenues at least sufficient to pay each year's requirements for principal and interest of River Authority bonds which were issued to fund flood control improvement projects as part of the agreement with the County. The last bond issuance (other than refundings) by the River Authority for flood control projects funded by this tax was in 2004. The flood control tax continues to support the debt service for this debt. Subsequent to 2004, Bexar County issued the debt for flood control projects that the River Authority managed.

Economy

The River Authority's jurisdiction includes the counties of Bexar, Wilson, Karnes and Goliad. The River Authority has continued to enjoy a favorable economic environment and local indicators point to continued stability. The City of San Antonio, the county seat of Bexar County, occupies an area of 467 square miles in south central Texas at the edge of the Gulf Coastal Plains, about 140 miles northwest of the Gulf of Mexico. The metropolitan statistical area (MSA) is an eight county area made up of Atascosa, Bexar, Bandera, Comal, Guadalupe, Kendall, Medina and Wilson counties. Throughout the last century, the military has been the city's economic power-house; however, tourism, educational institutions, agribusiness, technology, the aerospace industry and medical research have rounded out the economy. The City's proximity to Mexico provides favorable conditions for international business relations with Mexico in many areas including agriculture, tourism, manufacturing, and retail markets for citizens in Mexico. San Antonio's industries range from the manufacturing of apparel, food products, aircraft, electronics and pharmaceuticals to iron and steel products and oil well equipment.

San Antonio continues to advance its position in the area of bioscience and healthcare services – both direct and indirect. Direct services include hospital care, physicians’ offices, nursing homes and a variety of other clinics. Indirect services include health insurance carriers, pharmaceutical companies, medical equipment manufacturers and medical education. The bioscience and healthcare industry has added more than 50,000 new jobs over the past decade. The economic impact of the bioscience and healthcare industry was measured at between \$28 and \$37 billion in 2015 by a study completed by the Greater San Antonio Chamber of Commerce. Cybersecurity and information technology (IT) is another sector that has established itself as a major force in the San Antonio economy. In 2014, the IT industry consisted of over 1,000 companies, with over 34,000 IT professionals, generating an economic impact of nearly \$10 billion. Additional information about other key industries is available through the San Antonio Economic Foundation (SAEDF) website.

Higher education also plays a major role in the San Antonio local economy. The roster of major educational institutions includes the University of Texas Health Science Center, the University of Texas at San Antonio, St. Mary’s University, Trinity University, University of the Incarnate Word and the Texas A&M – San Antonio campus on the city’s south side.

Tourism is a major industry in San Antonio offering a wide variety of activities to visitors. This includes major theme parks, the riverwalk where activities range from dining and live entertainment to hiking and biking trails. San Antonio is also rich in history with the Alamo, where the most famous battle of the Texas revolution was fought, as well as the Spanish Missions which have recently been designated a World Heritage site by the United Nations Educational, Scientific and Cultural Organization (UNESCO). The city is working to make the most of this prestigious designation.

In Karnes County, fracking activities have had a very significant, positive impact on the economy. From 2010 to 2014, the property values in this county grew 1,826 percent – from \$558.4 million in 2010 to \$10.8 billion in 2014. Although falling gas and oil prices drove a decline in property values of 15 percent for 2015 and 40 percent in 2016 from mineral rights, the overall growth since 2010 still remains very strong. In 2017, values are expected to once again increase, by at least 20 percent. This industry’s activity in Karnes County has increased property values and generated strong increases in sales tax and hotel/motel taxes in the surrounding area. The drop in oil prices has decreased the fracking activity, which has also reduced the workforce in the oil fields. However, the fracking industry remains at work in the area and is expected to continue to positively contribute to the economy in Karnes County over the next several years.

Economic Outlook

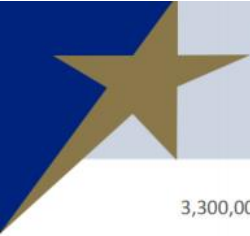
The Texas and San Antonio economy weathered the economic downturn that began in 2008 better than much of the nation. In the San Antonio area, the downturn in property values was much less severe and the recovery was quicker. This was true in other sectors of the economy as well. Since 2011, property values in Bexar County have grown an estimated 45 percent. For 2017, growth in Bexar County is estimated at nine percent and the River Authority expects overall growth in property values in all four counties (based on preliminary values from all four counties’ appraisal districts) of 9.4 percent with three counties showing growth – Bexar ,

Karnes and Wilson – and Goliad showing a decrease of about six percent. As described above, despite the downturn in recent years in Karnes County values as oil prices rose and then fell, the fracking activity in Karnes County has had a significant positive impact on property values in that area as well as all aspects of the economy in Karnes County. In 2017, property values, particularly from oil and minerals, are expected to grow twenty-three percent in Karnes County. Property values will continue to fluctuate annually depending on the price of oil. This is challenging for other public entities in Karnes County as their revenues also rise and fall. Since Karnes County’s property values represent only about four percent of the River Authority’s total tax base, changes in values have a smaller impact to the River Authority’s revenue stream.

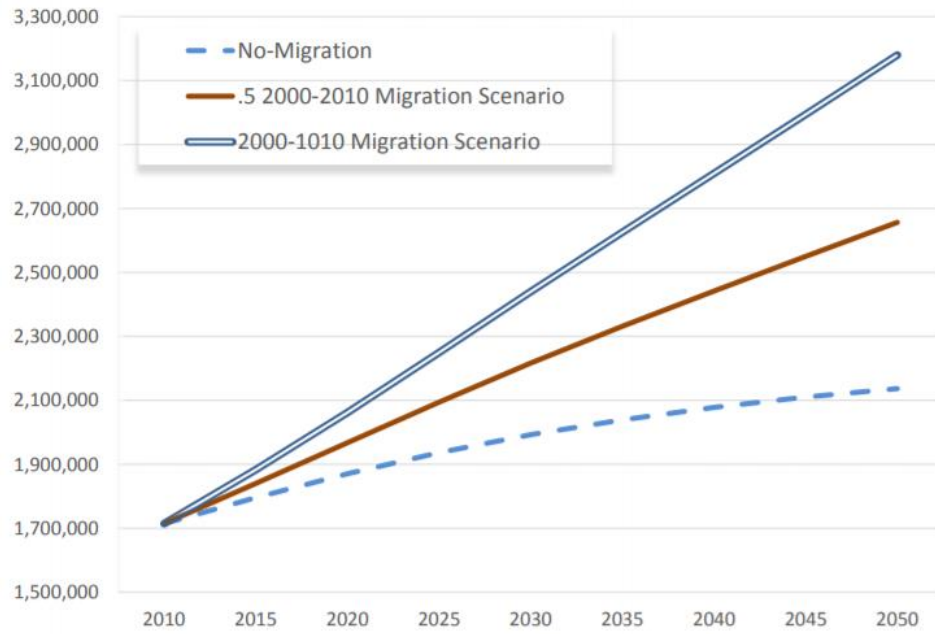
The San Antonio area continues to enjoy a robust economy. Unemployment in May 2017 was 3.6 percent in comparison to 4.1 percent nationwide. Job growth was 2.5 percent in May 2017, down slightly from 2.6 percent in May 2016 but still ahead of the national average of 1.5 percent in May 2017. (Bureau of Labor Statistics June 28, 2017 San Antonio Area Economic Summary;https://www.bls.gov/regions/southwest/summary/blssummary_sanantonio.pdf) San Antonio saw the number of jobs increase at an annualized rate of 1.9 percent based on the last three months ending May 2017. San Antonio is expected to create approximately 30,000 new jobs in 2017 (about 2.5 to 3 percent), with a local workforce of about one million. (San Antonio Express News January 20, 2017) Eight employment sectors saw growth with mining (31.9 percent) and construction (15.2 percent) leading the way. San Antonio continues to work hard to attract information technology and health care industry jobs and has seen overall success. However, over the last three months, technology employment has declined about 6.2 percent. (Dallas Federal Reserve, June 22, 2017, San Antonio Economic Indicators; <https://www.dallasfed.org/en/research/indicators/sa.aspx>)

San Antonio still faces some economic challenges with education level of the workforce chief among them. San Antonio needs to focus on continuing to develop higher education opportunities as well as supporting small businesses and entrepreneurs. The current strong dollar will also continue to impact Mexican consumer spending in San Antonio. Fortunately, declining oil prices do not significantly impact the San Antonio area as jobs in this field represent only a very small portion of the employed workforce. As described above, the reduced oil prices do negatively affect Karnes and to a lesser extent Wilson counties (also part of the River Authority’s district).

The housing market in San Antonio remains strong. The inventory of homes available for purchase in December 2016 was 3.1 months (with six months representing the balanced market between buyers and sellers) and 3.7 months by May 2017 (San Antonio Board of Realtors, June 13, 2017). It is currently still a seller’s market. The median home price increased six percent in 2016 to \$204,300. This is the first time the value has been consistently above \$200,000 for the entire year. In 2016, a record high of 29,508 homes were sold in Bexar County. (Source: the San Antonio Express-News; January 16, 2017). Housing remains more affordable in Bexar County than in many of the other large cities in Texas. The average home price in San Antonio is \$240,000 and \$266,500 in other cities in Texas.



Projected Population Growth in Bexar County, Texas, 2010-2050



Source: Texas State Data Center 2014 Population Projections

Graph Source

http://demographics.texas.gov/Resources/Presentations/OSD/2016/2016_01_14_IRE_M.pdf

Major Employers

Major Regional Employers				
<u>Employer</u>	<u>Sector</u>	<u>Number of Employees</u>		
Lackland Air Force Base	Military	37,097		
Fort Sam Houston - U.S. Army	Military	32,000		
H-E-B	Super Market Chain	20,000		
USAA	Financial Services	17,000		
Northside ISD	School District	12,751		
Randolph Air Force Base	Military	11,068		
North East ISD	School District	10,052		
City of San Antonio	Municipality	9,145		
Mthodist Healthcare System	Health Care	8,118		
San Antonio ISD	School District	7,000		
<i>The 2015 Book of Lists, The San Antonio Business Journal and by contact with company representatives.</i>				
http://www.sanantoniodef.com/why-san-antonio/data/				

Source (bioscience/healthcare): <http://www.sanantoniodef.com/industry-sectors/bioscience-healthcare/>

Source (IT/cybersecurity): <http://www.sanantoniodef.com/industry-sectors/information-technology-cybersecurity/>

QuickFacts

QuickFacts provides statistics for all states and counties, and for cities and towns with a *population of 5,000 or more*.

ALL TOPICS	Bexar County, Texas	Wilson County, Texas	Karnes County, Texas	Goliad County, Texas
Population estimates, July 1, 2016, (V2016)	1,928,680	48,480	15,254	7,517
PEOPLE				
Population				
Population estimates, July 1, 2016, (V2016)	1,928,680	48,480	15,254	7,517
Population estimates base, April 1, 2010, (V2016)	1,714,774	42,913	14,824	7,210
Population, percent change - April 1, 2010 (estimates base) to July 1, 2016, (V2016)	12.5%	13.0%	2.9%	4.3%
Population, Census, April 1, 2010	1,714,773	42,918	14,824	7,210
Age and Sex				
Persons under 5 years, percent, July 1, 2016, (V2016)	7.3%	6.0%	5.8%	5.1%
Persons under 5 years, percent, April 1, 2010	7.6%	6.2%	5.6%	5.3%
Persons under 18 years, percent, July 1, 2016, (V2016)	26.0%	24.4%	20.9%	21.6%
Persons under 18 years, percent, April 1, 2010	27.1%	26.4%	20.0%	22.9%
Persons 65 years and over, percent, July 1, 2016, (V2016)	11.8%	15.7%	14.3%	21.2%
Persons 65 years and over, percent, April 1, 2010	10.3%	12.6%	14.0%	19.0%
Female persons, percent, July 1, 2016, (V2016)	50.7%	49.9%	41.0%	50.5%
Female persons, percent, April 1, 2010	51.0%	50.2%	40.4%	50.1%
Race and Hispanic Origin				
White alone, percent, July 1, 2016, (V2016) (a)	84.8%	95.3%	88.4%	92.2%
White alone, percent, April 1, 2010 (a)	72.9%	89.1%	70.2%	83.7%
Black or African American alone, percent, July 1, 2016, (V2016) (a)	8.5%	1.8%	9.3%	5.1%
Black or African American alone, percent, April 1, 2010 (a)	7.5%	1.6%	9.3%	4.8%
American Indian and Alaska Native alone, percent, July 1, 2016, (V2016) (a)	1.2%	0.9%	1.0%	1.0%
American Indian and Alaska Native alone, percent, April 1, 2010 (a)	0.8%	0.7%	0.5%	0.7%
Asian alone, percent, July 1, 2016, (V2016) (a)	3.1%	0.5%	0.5%	0.5%
Asian alone, percent, April 1, 2010 (a)	2.4%	0.4%	0.2%	0.2%
Native Hawaiian and Other Pacific Islander alone, percent, July 1, 2016, (V2016) (a)	0.2%	0.1%	Z	Z
Native Hawaiian and Other Pacific Islander alone, percent, April 1, 2010 (a)	0.1%	Z	Z	Z
Two or More Races, percent, July 1, 2016, (V2016)	2.3%	1.4%	0.9%	1.3%
Two or More Races, percent, April 1, 2010	3.5%	2.1%	1.3%	2.4%
Hispanic or Latino, percent, July 1, 2016, (V2016) (b)	59.9%	39.0%	53.3%	35.8%
Hispanic or Latino, percent, April 1, 2010 (b)	58.7%	38.2%	49.8%	34.1%
White alone, not Hispanic or Latino, percent, July 1, 2016, (V2016)	28.2%	57.8%	37.1%	58.3%
White alone, not Hispanic or Latino, percent, April 1, 2010	30.3%	58.7%	40.2%	60.2%
Population Characteristics				
Veterans, 2011-2015	153,129	4,754	1,000	654
Foreign born persons, percent, 2011-2015	13.1%	4.5%	4.0%	2.1%

	Bexar County, Texas	Wilson County, Texas	Karnes County, Texas	Goliad County, Texas
Housing				
Housing units, July 1, 2016, (V2016)	687,624	17,180	5,918	3,727
Housing units, April 1, 2010	662,872	16,766	5,650	3,710
Owner-occupied housing unit rate, 2011-2015	58.5%	83.5%	75.3%	84.7%
Median value of owner-occupied housing units, 2011-2015	\$129,400	\$159,700	\$87,200	\$116,300
Median selected monthly owner costs --with a mortgage, 2011-2015	\$1,321	\$1,490	\$904	\$1,127
Median selected monthly owner costs --without a mortgage, 2011-2015	\$444	\$442	\$337	\$366
Median gross rent, 2011-2015	\$876	\$817	\$650	\$679
Building permits, 2016	7,600	52	49	3
Families & Living Arrangements				
Households, 2011-2015	618,831	15,477	4,309	2,881
Persons per household, 2011-2015	2.90	2.90	2.83	2.54
Living in same house 1 year ago, percent of persons age 1 year+, 2011-2015	81.3%	91.4%	88.6%	92.3%
Language other than English spoken at home, percent of persons age 5 years+, 2011-2015	40.8%	23.2%	28.3%	15.7%
Education				
High school graduate or higher, percent of persons age 25 years+, 2011-2015	83.3%	85.1%	73.7%	88.5%
Bachelor's degree or higher, percent of persons age 25 years+, 2011-2015	26.7%	19.5%	13.0%	13.9%
Health				
With a disability, under age 65 years, percent, 2011-2015	9.9%	9.0%	13.3%	13.0%
Persons without health insurance, under age 65 years, percent	▲ 16.8%	▲ 16.0%	▲ 15.9%	▲ 13.5%
Economy				
In civilian labor force, total, percent of population age 16 years+, 2011-2015	63.7%	61.3%	45.8%	53.6%
In civilian labor force, female, percent of population age 16 years+, 2011-2015	58.3%	54.1%	50.3%	48.1%
Total accommodation and food services sales, 2012 (\$1,000) (c)	5,006,725	36,842	28,983	5,749
Total health care and social assistance receipts/revenue, 2012 (\$1,000) (c)	12,143,604	69,544	30,664	4,466
Total manufacturers shipments, 2012 (\$1,000) (c)	14,766,148	121,856	D	D
Total merchant wholesaler sales, 2012 (\$1,000) (c)	D	D	45,276	3,275
Total retail sales, 2012 (\$1,000) (c)	26,480,589	452,449	191,980	40,976
Total retail sales per capita, 2012 (c)	\$14,829	\$10,197	\$12,603	\$5,574
Transportation				
Mean travel time to work (minutes), workers age 16 years+, 2011-2015	24.5	32.9	23.6	28.0
Income & Poverty				
Median household income (in 2015 dollars), 2011-2015	\$51,150	\$68,100	\$45,502	\$51,226
Per capita income in past 12 months (in 2015 dollars), 2011-2015	\$24,735	\$28,887	\$25,868	\$29,513
Persons in poverty, percent	▲ 15.6%	▲ 9.4%	▲ 20.0%	▲ 14.1%
BUSINESSES				
Businesses				
Total employer establishments, 2015	35,170	684	352	125
Total employment, 2015	709,657	6,631	5,405	719
Total annual payroll, 2015 (\$1,000)	31,183,129	218,097	297,682	28,078
Total employment, percent change, 2014-2015	3.1%	7.4%	12.1%	-5.4%
Total nonemployer establishments, 2015	131,716	3,454	995	596
All firms, 2012	147,956	3,893	1,142	673
Men-owned firms, 2012	79,932	2,444	652	382
Women-owned firms, 2012	55,036	1,032	316	244
Minority-owned firms, 2012	85,682	1,265	387	144
Nonminority-owned firms, 2012	57,291	2,560	682	487
Veteran-owned firms, 2012	15,655	470	30	66
Nonveteran-owned firms, 2012	126,374	3,202	1,054	560
GEOGRAPHY				
Geography				
Population per square mile, 2010	1,383.1	53.4	19.8	8.5
Land area in square miles, 2010	1,239.82	803.73	747.56	852.01
FIPS Code	48029	48493	48255	48175

Value Notes

⚠️ This geographic level of poverty and health estimates are not comparable to other geographic levels of these estimates. Some estimates presented here come from sample data, and thus have sampling errors that may render some apparent differences between geographies statistically indistinguishable. Click the Qu left of each row in TABLE view to learn about sampling error.

The vintage year (e.g., V2016) refers to the final year of the series (2010 thru 2016).

Different vintage years of estimates are not comparable.

Fact Notes

- (a) Includes persons reporting only one race
- (b) Hispanics may be of any race, so also are included in applicable race categories
- (c) Economic Census - Puerto Rico data are not comparable to U.S. Economic Census data **Value Flags**

- D** Suppressed to avoid disclosure of confidential information
- F** Fewer than 25 firms
- FN** Footnote on this item in place of data
- NA** Not available
- S** Suppressed; does not meet publication standards
- X** Not applicable
- Z** Value greater than zero but less than half unit of measure shown
- Either no or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the interval of an open ended distribution.

QuickFacts data are derived from: Population Estimates, American Community Survey, Census of Population and Housing, Current Population Survey, Small Area Health Insurance Estimates, Small Area Poverty Estimates, State and County Housing Unit Estimates, County Business Patterns, Nonemployer Statistics, Economic Census, Survey of Business Owners, Building Permits.

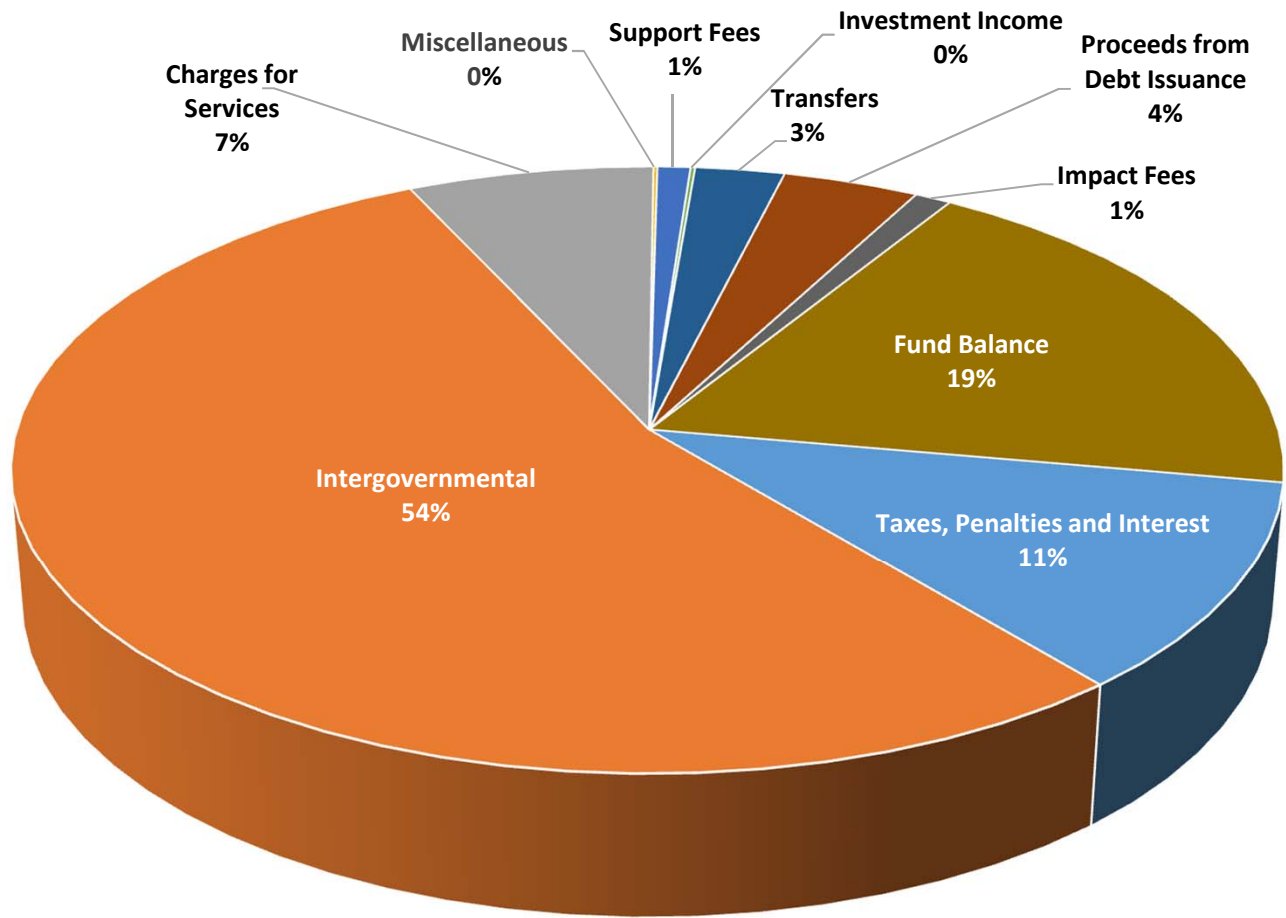


SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

FY 2017/18 Total Available Funds



Taxes, Penalties and Interest	\$	27,062,143
Intergovernmental		130,692,952
Charges for Services		17,136,415
Miscellaneous		272,813
Support Fees		2,302,631
Investment Income		309,018
Transfers		6,242,016
Proceeds from Debt Issuance		9,500,000
Impact Fees		2,551,050
Fund Balance		45,684,843
Total Available Funds	\$	241,753,881

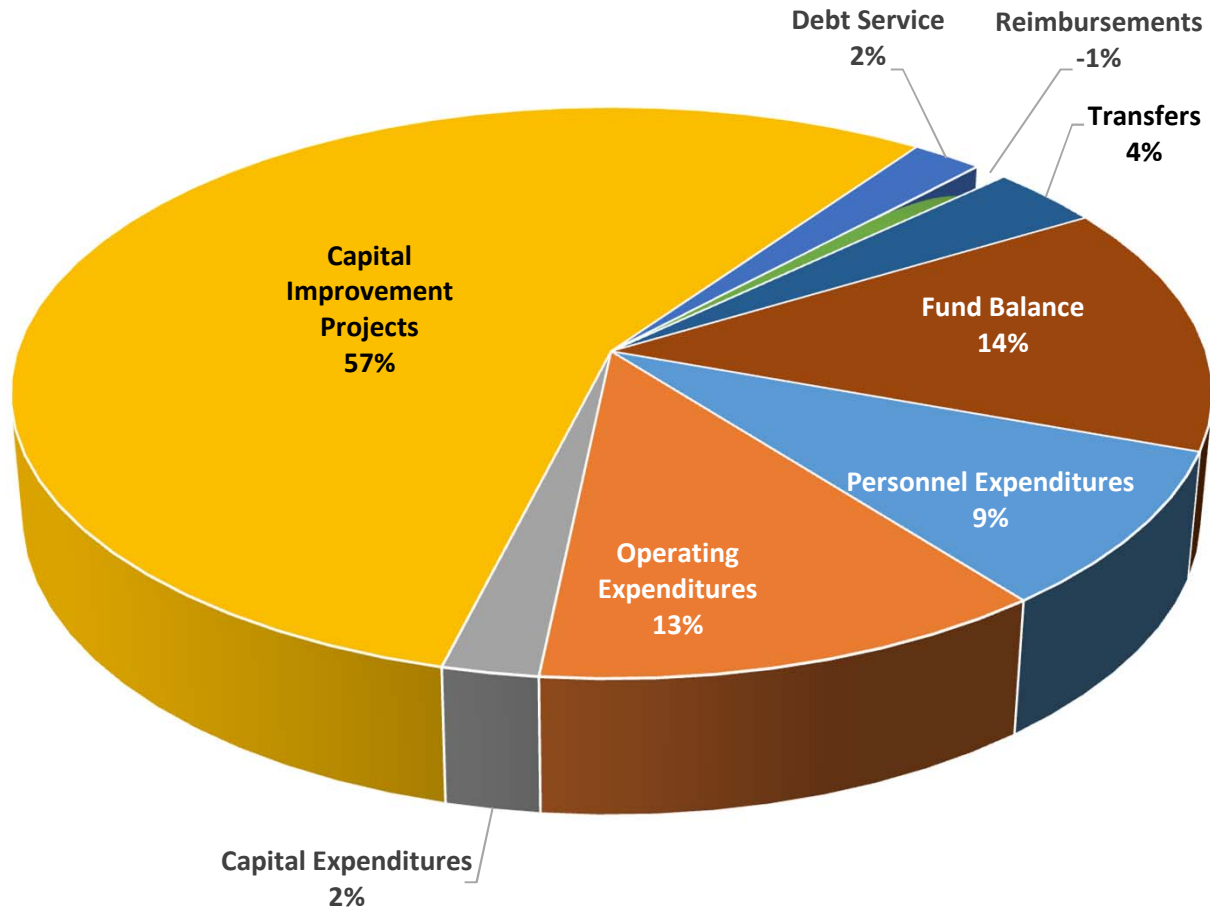


SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

FY 2017/18 Total Appropriations



Personnel Expenditures	\$	21,992,745
Operating Expenditures		30,074,949
Capital Expenditures		5,624,288
Capital Improvement Projects		137,735,711
Debt Service		5,404,733
Reimbursements		(2,493,745)
Transfers		8,544,647
Fund Balance		34,870,552
Total Appropriations	\$	241,753,880

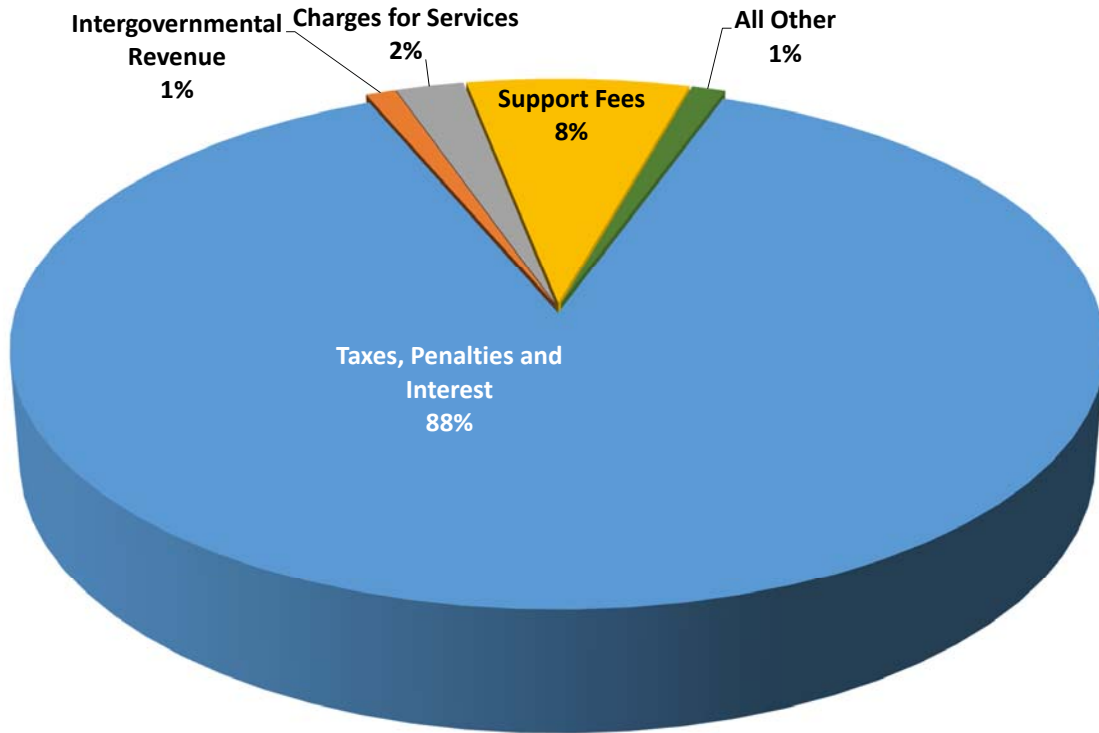


SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

FY 2017/18 General Fund Revenues by Category



Taxes, Penalties and Interest	\$ 27,062,143
Intergovernmental Revenue	310,000
Charges for Services	705,969
Support Fees	2,302,631
All Other	350,446
Total Revenue	\$ 30,731,189

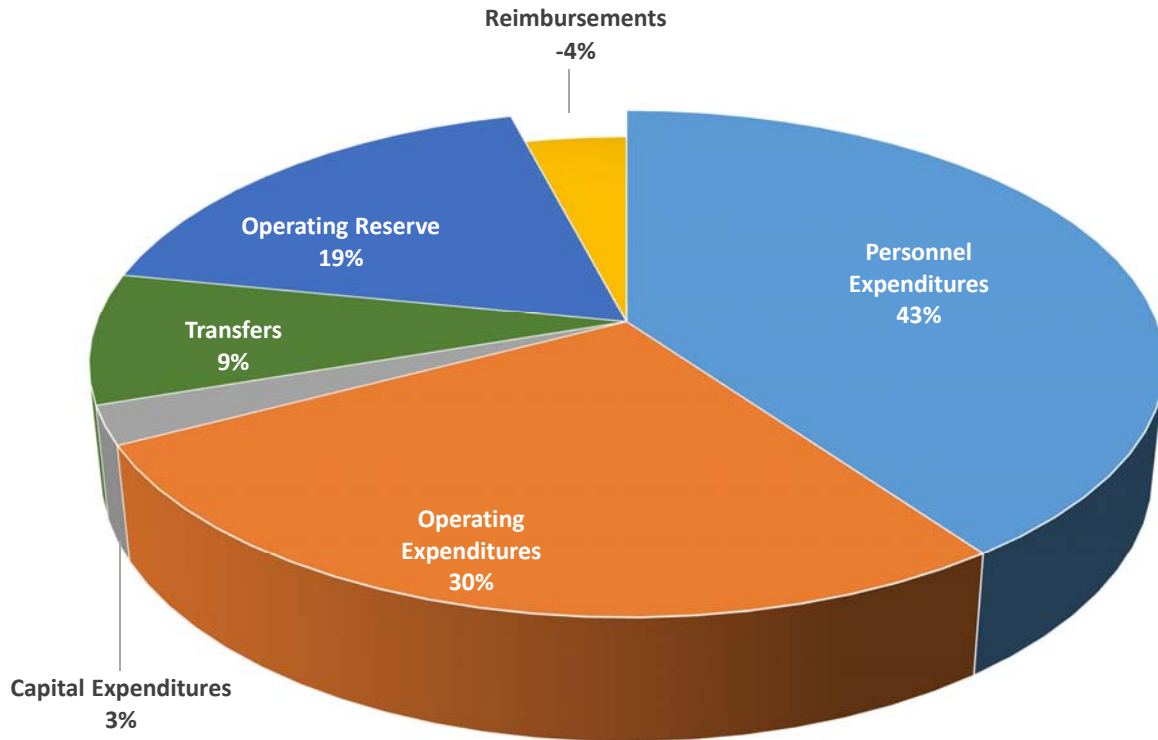


SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

FY 2017/18 General Fund Budget Appropriations by Type



Personnel Expenditures	\$	17,965,651
Operating Expenditures		12,165,164
Capital Expenditures		1,104,897
Transfers		3,742,016
Operating Reserve		7,956,932
Reimbursements		(1,826,745)
Total Appropriations	\$	41,107,915

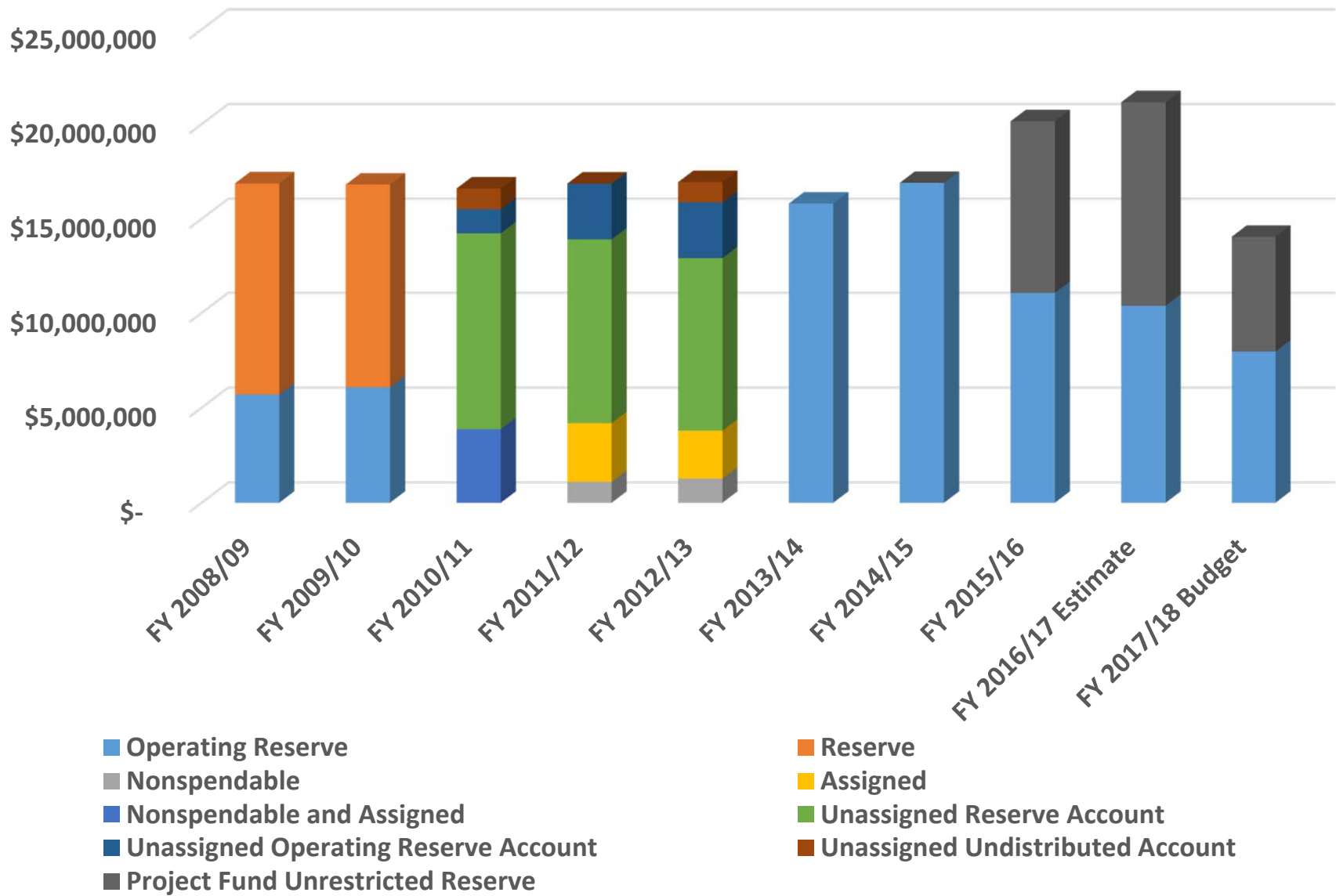


SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

General Fund and SARA Project Fund Fund Balances





SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

ALL FUNDS SUMMARY



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

All Funds Summary
Fiscal Year Ending June 30, 2018

	FY 2017/18	FY 2017/18
Available Funds	All Funds	General Fund
Beginning Balance		
Operating Reserve	\$ 16,926,882	\$ 10,376,726
Unrestricted Reserve	3,440,430	-
Reserve for Projects	19,445,445	-
Impact/Connection Fee Reserves	3,997,272	-
Reserve for Debt Service	1,874,814	-
Total Beginning Balance	\$ 45,684,843	\$ 10,376,726
Revenue		
Taxes, Penalties and Interest	\$ 27,062,143	\$ 27,062,143
Intergovernmental	130,692,952	\$ 360,000
Charges for Services	17,136,415	\$ 705,969
Miscellaneous	272,813	\$ 181,846
Investment Earnings	309,018	\$ 168,600
Reimbursements	-	\$ -
Proceeds from Debt Issuance	9,500,000	-
Impact/Connection Fees	2,551,050	-
Transfers - Support Fees	2,302,631	\$ 2,302,631
Transfers	6,242,016	-
Total Revenue	\$ 196,069,039	\$ 30,781,189
TOTAL AVAILABLE FUNDS	\$ 241,753,881	\$ 41,157,915
APPROPRIATIONS		
Personnel Expenditures	\$ 21,992,745	\$ 17,965,651
Operating Expenditures	30,074,949	12,165,164
Capital Outlay	5,624,288	1,104,897
Capital Improvement Projects	137,735,711	-
Debt Service	5,404,733	-
Transfers	8,544,647	3,742,016
Reimbursements	(2,493,745)	(1,826,745)
TOTAL EXPENDITURES	\$ 206,883,328	\$ 33,150,983
Operating Reserve	11,589,348	8,006,932
Unrestricted Reserve	8,942,144	-
Reserve for Debt Service	4,061,399	-
Reserve for Projects	4,016,184	-
Restricted Reserve	75,000	-
Impact/Connection Fee Reserve(s)	5,676,477	-
Repair and Replacement Reserve	510,000	-
TOTAL APPROPRIATIONS	\$ 241,753,880	\$ 41,157,915

All Funds Summary Fiscal Year Ending June 30, 2018	Utility Operating Funds	Special Revenue Funds
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	FY 2017/18 SARA Wastewater	FY 2017/18 Salatrillo Wastewater	FY 2017/18 Randolph Air Force Base	FY 2017/18 Medina Dam
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Beginning Balance				
Operating Reserve	\$ 3,803,620	\$ 906,922	\$ 181,628	\$ -
Unrestricted Reserve	-	-	-	-
Reserve for Projects	-	-	-	-
Impact/Connection Fee Reserves	-	-	-	-
Reserve for Debt Service	-	-	-	-
Total Beginning Balance	\$ 3,803,620	\$ 906,922	\$ 181,628	\$ -

Revenue				
Taxes, Penalties and Interest	\$ -	\$ -	\$ -	\$ -
Intergovernmental	725,000	564,353	370,000	75,000
Charges for Services	8,847,888	4,017,528	-	-
Miscellaneous	75,000	-	-	-
Investment Earnings	35,000	24,000	-	-
Reimbursements	-	-	-	-
Proceeds from Debt Issuance	-	-	-	-
Impact/Connection Fees	-	-	-	-
Transfers - Support Fees	-	-	-	-
Transfers	-	-	-	-
Total Revenue	\$ 9,682,888	\$ 4,605,881	\$ 370,000	\$ 75,000

TOTAL AVAILABLE FUNDS	\$ 13,486,508	\$ 5,512,803	\$ 551,628	\$ 75,000
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APPROPRIATIONS

Personnel Expenditures	\$ 2,621,946	\$ 1,405,148	\$ -	\$ -
Operating Expenditures	2,261,483	1,244,191	426,100	75,000
Capital Outlay	331,500	694,600	-	-
Capital Improvement Projects	-	-	-	-
Debt Service	1,167,450	458,444	-	-
Transfers	3,788,886	813,745	-	-
Reimbursements	(667,000)	-	-	-

TOTAL EXPENDITURES	\$ 9,504,265	\$ 4,616,128	\$ 426,100	\$ 75,000
Operating Reserve	1,512,657	669,675	125,528	-
Unrestricted Reserve	-	-	-	-
Reserve for Debt Service	1,959,585	227,000	-	-
Reserve for Projects	-	-	-	-
Restricted Reserve	-	-	-	-
Impact/Connection Fee Reserve(s)	-	-	-	-
Repair and Replacement Reserve	510,000	-	-	-
TOTAL APPROPRIATIONS	\$ 13,486,507	\$ 5,512,803	\$ 551,628	\$ 75,000

All Funds Summary
Fiscal Year Ending June 30, 2018

Special Revenue Funds

Available Funds	FY 2017/18 SACIP Land Sales	FY 2017/18 Public Facilities Corp	FY 2017/18 Industrial Dev Authority	FY 2017/18 Park Resources Development
Beginning Balance				
Operating Reserve	\$ -	\$ 17,570	\$ 22,116	\$ -
Unrestricted Reserve	444,113	-	-	396,101
Reserve for Projects	75,000	-	-	-
Impact/Connection Fee Reserves	-	-	-	-
Reserve for Debt Service	-	-	-	-
Total Beginning Balance	\$ 519,113	\$ 17,570	\$ 22,116	\$ 396,101
Revenue				
Taxes, Penalties and Interest	\$ -	\$ -	\$ -	\$ -
Intergovernmental	-	-	-	-
Charges for Services	55,100	182,283	-	20,000
Miscellaneous	-	-	-	-
Investment Earnings	840	-	100	500
Reimbursements	-	-	-	-
Proceeds from Debt Issuance	-	-	-	-
Impact/Connection Fees	-	-	-	-
Transfers - Support Fees	-	-	-	-
Transfers	-	-	-	-
Total Revenue	\$ 55,940	\$ 182,283	\$ 100	\$ 20,500
TOTAL AVAILABLE FUNDS	\$ 575,053	\$ 199,853	\$ 22,216	\$ 416,601

APPROPRIATIONS

Personnel Expenditures	\$ -	\$ -	\$ -	\$ -
Operating Expenditures	-	12,277	6,000	-
Capital Outlay	-	-	-	-
Capital Improvement Projects	435,000	-	-	270,752
Debt Service	-	182,283	-	-
Transfers	-	-	-	-
Reimbursements	-	-	-	-

TOTAL EXPENDITURES	\$ 435,000	\$ 194,560	\$ 6,000	\$ 270,752
Operating Reserve	-	5,293	16,216	-
Unrestricted Reserve	65,053	-	-	145,849
Reserve for Debt Service	-	-	-	-
Reserve for Projects	-	-	-	-
Restricted Reserve	75,000	-	-	-
Impact/Connection Fee Reserve(s)	-	-	-	-
Repair and Replacement Reserve	-	-	-	-
TOTAL APPROPRIATIONS	\$ 575,053	\$ 199,853	\$ 22,216	\$ 416,601

All Funds Summary
Fiscal Year Ending June 30, 2018

Special Revenue Funds

Available Funds	FY 2017/18 Water Planning Group	FY 2017/18 Edward Aquifer/RWRDG	FY 2017/18 Regional Water Alliance	FY 2017/18 Grants
Beginning Balance				
Operating Reserve	\$ -	\$ 110,784	\$ 13,944	\$ -
Unrestricted Reserve	-	-	-	-
Reserve for Projects	-	-	-	-
Impact/Connection Fee Reserves	-	-	-	-
Reserve for Debt Service	-	-	-	-
Total Beginning Balance	\$ -	\$ 110,784	\$ 13,944	\$ -
Revenue				
Taxes, Penalties and Interest	\$ -	\$ -	\$ -	\$ -
Intergovernmental	513,389	297,609	4,200	6,526,498
Charges for Services	-	1,100	-	-
Miscellaneous	-	-	-	-
Investment Earnings	50	1,000	30	-
Reimbursements	-	-	-	-
Proceeds from Debt Issuance	-	-	-	-
Impact/Connection Fees	-	-	-	-
Transfers - Support Fees	-	-	-	-
Transfers	-	-	-	-
Total Revenue	\$ 513,439	\$ 299,709	\$ 4,230	\$ 6,526,498
TOTAL AVAILABLE FUNDS	\$ 513,439	\$ 410,493	\$ 18,174	\$ 6,526,498
APPROPRIATIONS				
Personnel Expenditures	\$ -	\$ -	\$ -	\$ -
Operating Expenditures	513,439	298,432	4,625	2,480,271
Capital Outlay	-	-	-	-
Capital Improvement Projects	-	-	-	4,046,227
Debt Service	-	-	-	-
Transfers	-	-	-	-
Reimbursements	-	-	-	-
TOTAL EXPENDITURES	\$ 513,439	\$ 298,432	\$ 4,625	\$ 6,526,498
Operating Reserve	-	-	-	-
Unrestricted Reserve	-	112,061	13,549	-
Reserve for Debt Service	-	-	-	-
Reserve for Projects	-	-	-	-
Restricted Reserve	-	-	-	-
Impact/Connection Fee Reserve(s)	-	-	-	-
Repair and Replacement Reserve	-	-	-	-
TOTAL APPROPRIATIONS	\$ 513,439	\$ 410,493	\$ 18,174	\$ 6,526,498

All Funds Summary Fiscal Year Ending June 30, 2018	Debt Service Fund	Insurance Fund	Capital Improvement Funds	
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	FY 2017/18	FY 2017/18	FY 2017/18	FY 2017/18
Available Funds	Debt Service	Insurance	SARA Project	City of San Antonio SARIP

Beginning Balance				
Operating Reserve	\$ -	\$ 1,493,573	\$ -	\$ -
Unrestricted Reserve	2,600,216	-	-	-
Reserve for Projects	-	-	11,363,437	-
Impact/Connection Fee Reserves	-	-	-	-
Reserve for Debt Service	1,874,814	-	-	-
Total Beginning Balance	\$ 4,475,030	\$ 1,493,573	\$ 11,363,437	\$ -

Revenue				
Taxes, Penalties and Interest	-	\$ -	\$ -	\$ -
Intergovernmental	2,975,406	-	-	5,577,780
Charges for Services	-	3,306,547	-	-
Miscellaneous	-	15,000	-	-
Investment Earnings	28,300	12,000	-	2,000
Reimbursements	-	-	-	-
Proceeds from Debt Issuance	-	-	-	-
Impact/Connection Fees	-	-	-	-
Transfers - Support Fees	-	-	-	-
Transfers	596,184	-	3,145,832	200,000
Total Revenue	\$ 3,599,890	\$ 3,333,547	\$ 3,145,832	\$ 5,779,780

TOTAL AVAILABLE FUNDS	\$ 8,074,920	\$ 4,827,120	\$ 14,509,269	\$ 5,779,780
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APPROPRIATIONS

Personnel Expenditures	\$ -	\$ -	\$ -	\$ -
Operating Expenditures	-	3,574,072	5,013,896	-
Capital Outlay	-	-	3,493,291	-
Capital Improvement Projects	-	-	-	5,579,780
Debt Service	3,596,556	-	-	-
Transfers	-	-	-	200,000
Reimbursements	-	-	-	-

TOTAL EXPENDITURES	\$ 3,596,556	\$ 3,574,072	\$ 8,507,187	\$ 5,779,780
Operating Reserve	-	1,253,047	-	-
Unrestricted Reserve	2,603,550	-	6,002,082	-
Reserve for Debt Service	1,874,814	-	-	-
Reserve for Projects	-	-	-	-
Restricted Reserve	-	-	-	-
Impact/Connection Fee Reserve(s)	-	-	-	-
Repair and Replacement Reserve	-	-	-	-
TOTAL APPROPRIATIONS	\$ 8,074,920	\$ 4,827,120	\$ 14,509,269	\$ 5,779,780

All Funds Summary
Fiscal Year Ending June 30, 2018

Capital Improvements
Funds

	FY 2017/18 Bexar County Capital Improv	FY 2017/18 Bexar County SARIP Flood Tax	FY 2017/18 City of San Antonio CIP 1999	FY 2017/18 Bexar County Westside Creek
Available Funds				
Beginning Balance				
Operating Reserve	-	-	\$ -	-
Unrestricted Reserve	-	-	-	-
Reserve for Projects	-	-	-	-
Impact/Connection Fee Reserves	-	-	-	-
Reserve for Debt Service	-	-	-	-
Total Beginning Balance	\$ -	\$ -	\$ -	\$ -
Revenue				
Taxes, Penalties and Interest	\$ -	\$ -	\$ -	\$ -
Intergovernmental	851,726	10,948,700	27,817	70,210,668
Charges for Services	-	-	-	-
Miscellaneous	-	-	-	-
Investment Earnings	-	5,000	-	-
Reimbursements	-	-	-	-
Proceeds from Debt Issuance	-	-	-	-
Impact/Connection Fees	-	-	-	-
Transfers - Support Fees	-	-	-	-
Transfers	-	-	-	-
Total Revenue	\$ 851,726	\$ 10,953,700	\$ 27,817	\$ 70,210,668
TOTAL AVAILABLE FUNDS	\$ 851,726	\$ 10,953,700	\$ 27,817	\$ 70,210,668
APPROPRIATIONS				
Personnel Expenditures	\$ -	\$ -	\$ -	\$ -
Operating Expenditures	-	-	-	-
Capital Outlay	-	-	-	-
Capital Improvement Projects	851,726	10,953,700	27,817	70,210,668
Debt Service	-	-	-	-
Transfers	-	-	-	-
Reimbursements	-	-	-	-
TOTAL EXPENDITURES	\$ 851,726	\$ 10,953,700	\$ 27,817	\$ 70,210,668
Operating Reserve	-	-	-	-
Unrestricted Reserve	-	-	-	-
Reserve for Debt Service	-	-	-	-
Reserve for Projects	-	-	-	-
Restricted Reserve	-	-	-	-
Impact/Connection Fee Reserve(s)	-	-	-	-
Repair and Replacement Reserve	-	-	-	-
TOTAL APPROPRIATIONS	\$ 851,726	\$ 10,953,700	\$ 27,817	\$ 70,210,668

All Funds Summary
Fiscal Year Ending June 30, 2018

Capital Improvement Funds

Available Funds	FY 2017/18 Downstream CIP	FY 2017/18 Bexar County Capital Projects	FY 2017/18 City of San Antonio Westside Creeks	FY 2017/18 Other Capital Projects Fund
Beginning Balance				
Operating Reserve	\$ -	\$ -	\$ -	\$ -
Unrestricted Reserve	-	-	-	-
Reserve for Projects	-	-	-	-
Impact/Connection Fee Reserves	-	-	-	-
Reserve for Debt Service	-	-	-	-
Total Beginning Balance	\$ -	\$ -	\$ -	\$ -
Revenue				
Taxes, Penalties and Interest	\$ -	\$ -	\$ -	\$ -
Intergovernmental	1,564,487	2,900,453	16,846,175	7,697,185
Charges for Services	-	-	-	-
Miscellaneous	-	-	-	-
Investment Earnings	-	-	-	-
Reimbursements	-	-	-	-
Proceeds from Debt Issuance	-	-	-	-
Impact/Connection Fees	-	-	-	-
Transfers - Support Fees	-	-	-	-
Transfers	-	-	-	-
Total Revenue	\$ 1,564,487	\$ 2,900,453	\$ 16,846,175	\$ 7,697,185
TOTAL AVAILABLE FUNDS	\$ 1,564,487	\$ 2,900,453	\$ 16,846,175	\$ 7,697,185
APPROPRIATIONS				
Personnel Expenditures	\$ -	\$ -	\$ -	\$ -
Operating Expenditures	-	-	-	-
Capital Outlay	-	-	-	-
Capital Improvement Projects	1,564,487	2,900,453	16,846,175	7,697,185
Debt Service	-	-	-	-
Transfers	-	-	-	-
Reimbursements	-	-	-	-
TOTAL EXPENDITURES	\$ 1,564,487	\$ 2,900,453	\$ 16,846,175	\$ 7,697,185
Operating Reserve	-	-	-	-
Unrestricted Reserve	-	-	-	-
Reserve for Debt Service	-	-	-	-
Reserve for Projects	-	-	-	-
Restricted Reserve	-	-	-	-
Impact/Connection Fee Reserve(s)	-	-	-	-
Repair and Replacement Reserve	-	-	-	-
TOTAL APPROPRIATIONS	\$ 1,564,487	\$ 2,900,453	\$ 16,846,175	\$ 7,697,185

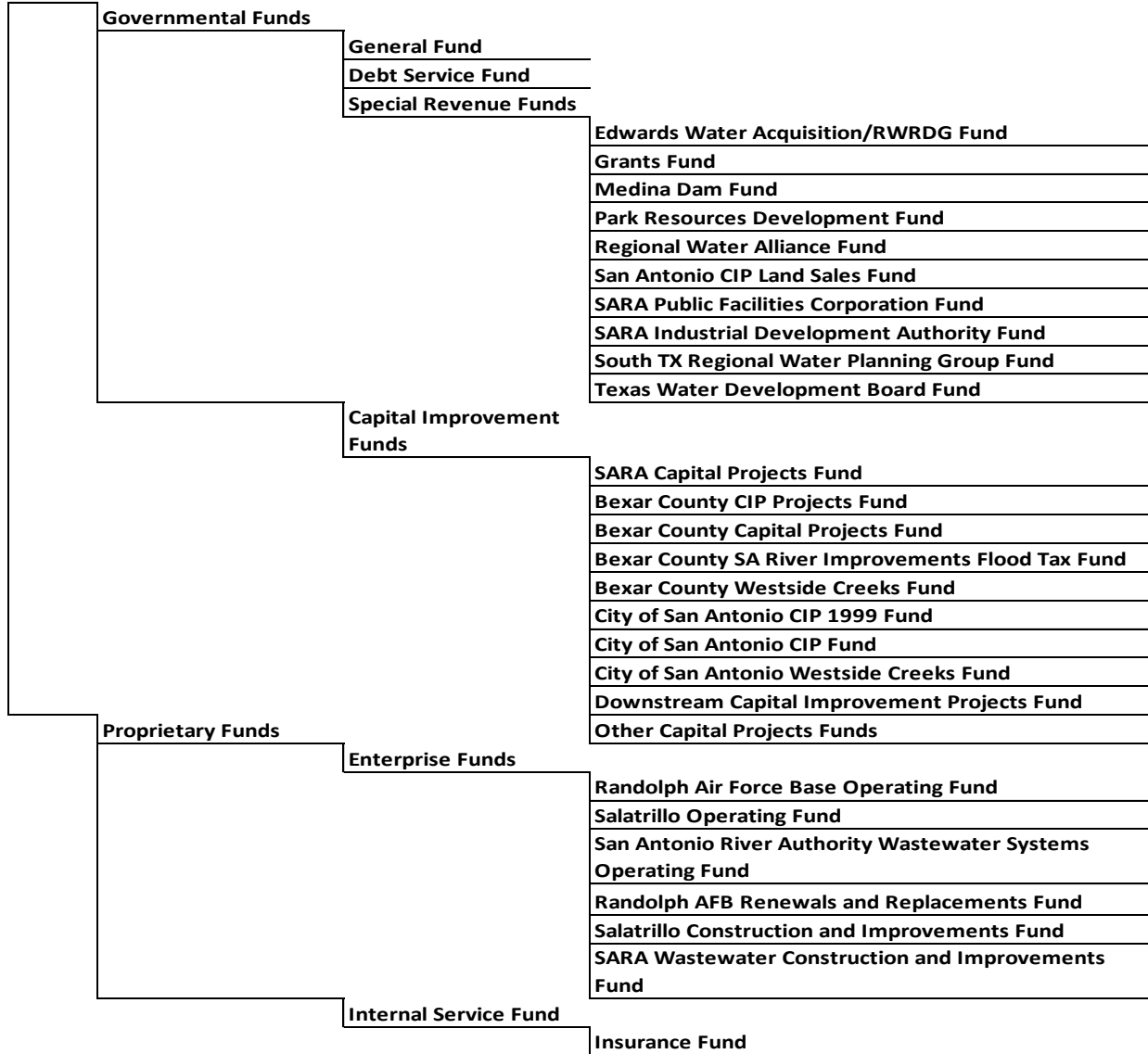
All Funds Summary
Fiscal Year Ending June 30, 2018

Capital Improvement
Funds

Available Funds	FY 2017/18 SARA Wastewater Construction	FY 2017/18 Salatrillo Construction	FY 2017/18 Randolph Renewal and Replacement
Beginning Balance			
Operating Reserve	\$ -	\$ -	\$ -
Unrestricted Reserve	-	-	-
Reserve for Projects	5,899,167	1,173,820	934,020
Impact/Connection Fee Reserves	-	3,997,272	-
Reserve for Debt Service	-	-	-
Total Beginning Balance	\$ 5,899,167	\$ 5,171,092	\$ 934,020
Revenue			
Taxes, Penalties and Interest	\$ -	\$ -	\$ -
Intergovernmental	1,296,506	-	360,000
Charges for Services	-	-	-
Miscellaneous	967	-	-
Investment Earnings	15,000	15,000	1,599
Reimbursements	-	-	-
Proceeds from Debt Issuance	9,500,000	-	-
Impact/Connection Fees	2,250,000	301,050	-
Transfers - Support Fees	-	-	-
Transfers	2,300,000	-	-
Total Revenue	\$ 15,362,473	\$ 316,050	\$ 361,599
TOTAL AVAILABLE FUNDS	\$ 21,261,640	\$ 5,487,142	\$ 1,295,619
APPROPRIATIONS			
Personnel Expenditures	\$ -	\$ -	\$ -
Operating Expenditures	2,000,000	-	-
Capital Outlay	-	-	-
Capital Improvement Projects	14,215,659	1,430,870	705,212
Debt Service	-	-	-
Transfers	-	-	-
Reimbursements	-	-	-
TOTAL EXPENDITURES	\$ 16,215,659	\$ 1,430,870	\$ 705,212
Operating Reserve	-	-	-
Unrestricted Reserve	-	-	-
Reserve for Debt Service	-	-	-
Reserve for Projects	3,366,777	59,000	590,407
Restricted Reserve	-	-	-
Impact/Connection Fee Reserve(s)	1,679,205	3,997,272	-
Repair and Replacement Reserve	-	-	-
TOTAL APPROPRIATIONS	\$ 21,261,641	\$ 5,487,142	\$ 1,295,619

Fund Structure Chart

ALL FUNDS



ACCOUNT STRUCTURE AND DESCRIPTION OF FUNDS

The San Antonio River Authority (River Authority) maintains budgetary control of its operating accounts through the use of various funds. A "fund" is a self-balancing set of accounts with identifiable revenue sources and expenditures. It is segregated for the purposes of measuring a specific activity. Additionally, these funds are further separated into either major funds or non-major funds based on a criterion that compares the amount of assets, liabilities, revenues or expenditures they report in comparison to the total governmental funds or the combination of the governmental funds and the business activity funds.

The River Authority has two kinds of funds:

- **Governmental funds** – Most of the River Authority's basic services are included in governmental funds such as the General Fund and special revenue funds. These funds focus on how cash and other financial assets can readily be converted to cash flow in/out and on the balances left at year-end and available for spending. The River Authority has 23 individual governmental funds that includes eleven special revenue funds and eleven capital project funds.

The following governmental funds are classified as major funds:

- General Fund including the Texas Water Development Board Fund
- Debt Service Fund
- Bexar County Flood Tax Fund (Bexar County)
- Bexar County Westside Creek Restoration Projects Fund
- City of San Antonio Westside Creeks Restoration Projects Fund
- San Antonio River Authority Capital Projects Fund

All other governmental funds are classified as non-major funds.

- **Proprietary funds** – The River Authority maintains two types of proprietary funds – enterprise funds and internal service funds.
 - Enterprise Funds – These funds support business type activities in which the River Authority engages, all related to wastewater collection and treatment services. These activities are classified as enterprise funds because their revenues are derived from collecting fees from only those constituents that benefit from the service provided. These fees are based on a cost of service study and are meant to only recover the cost to provide this service. There are six enterprise funds, three operating funds and three capital improvement funds.
 - Internal service funds – These funds report activities that provide supplies and services that benefit governmental functions, programs and activities of the River Authority. Currently, the River Authority's Insurance Fund is the only internal service fund.

The following enterprise funds are classified as major funds:

- San Antonio River Authority Wastewater Systems Funds
- Salatrillo Funds

The following describes each of the River Authority's active funds (or groups of funds) that account for all the River Authority's revenues and expenditures.

GENERAL FUND - Accounts for the San Antonio River Authority's operations. The main source of revenue is property taxes. Functions funded through the General Fund include organizational support, board of directors, intergovernmental and community relations, facilities, human resources, watershed and park operations, finance, information technology, watershed engineering, environmental sciences, and real estate.

DEBT SERVICE FUND - Accounts for the resources to pay principal and interest on long-term debt for non-enterprise system capital improvement projects. Revenue comes from the River Authority's portion of the Bexar County flood control property tax revenue and from the General Fund.

INSURANCE FUND - Accounts for revenues received from San Antonio River Authority's operating funds and the expenses incurred for medical, and vision dental claims and administration.

SPECIAL REVENUE FUNDS

Edwards Water Acquisition/Regional Water Resources Development Group (RWRDG) Fund - Accounts for the administration of the Regional Water Resource Development Group that collectively purchases Edwards Aquifer water for the area. Accounts for the activities of twenty-one water purveyors and regional water entities that have joined together to form the Regional Water Alliance to seek and implement collaborative solutions to effectively meet the region's diverse water needs.

Grants Fund – Accounts for all grants funded by local, state, and federal agencies with the exception of the Texas Water Development Board grant/loan.

Medina Dam Fund - Accounts for expenses incurred in assisting Bexar Medina Atascosa Water District (BMA) with repairs to the Medina Dam. Bexar County, BMA and the Texas Water Development Board pay all expenses incurred.

Park Resources Development Fund - Accounts for revenues received from the sale of non-essential lands or revenues from leases, license agreements and easements. The funds can only be used for land acquisition and/or the development of any project included in the San Antonio River Authority's River Basin Plan for Nature-based Park Resources or subsequent regional park and recreation plans.

Regional Water Alliance Fund – Accounts for expenses related to the Regional Water Alliance activities that seek to implement collaborative solutions to effectively meet the region’s diverse water needs.

San Antonio Capital Improvement Project Land Sales Fund - Accounts for revenue received for land use activities as authorized in the 1999 amendatory contract with Bexar County. Funds are used to support capital improvement projects like the Westside Creeks San Pedro Creek project.

San Antonio River Authority Public Facilities Corporation Fund - Accounts costs associated with the San Antonio River Authority Public Facilities Corporation’s activities. The corporation can act on behalf of the River Authority to finance and provide public facilities.

San Antonio River Authority Industrial Development Authority (SARIDA) Fund – Accounts for the blended component unit that furnishes eligible applicant’s financial assistance through the sales of tax-free industrial development bonds.

South Texas Regional Water Planning Group Fund - Accounts for monies collected from participants of the South Central Texas Regional Water Planning Group (Region L) and Texas Water Development Board per Senate Bill 1 (1997) and expenditures authorized by interlocal agreements between the participants.

Texas Water Development Board Fund – Accounts for the grant/loan from the Texas Water Development Board used to develop watershed master plans and to complete a nutrient study.

ENTERPRISE OPERATING FUNDS

Randolph Air Force Base Operating and Maintenance Fund - Accounts for the operation and maintenance activities for the wastewater collection system at Randolph Air Force Base.

Salatrillo Operating Fund - Accounts for the operation and maintenance of wastewater treatment systems for the wholesale customers of Converse, Universal City, Live Oak as well as the Salatrillo retail customer. This fund accounts for the operation and maintenance of the reuse distribution line that begins at the Salatrillo Wastewater Treatment Plant and distributes reused water to Alamo Community College District and Universal City.

San Antonio River Authority Wastewater Systems Operating Fund – Accounts for the operation and maintenance of wastewater treatment systems for residential and business customers within the San Antonio River Authority’s District. The fund also accounts for the operation and maintenance of wastewater treatment plants operated by the River Authority but funded by other entities including the City of La Vernia, the City of Somerset, the Goliad County Water Supply Corporation, the City of Goliad, and the Alamo College District.

CAPITAL PROJECT FUNDS

San Antonio River Authority Capital Projects Fund – Accounts for expenses incurred in River Authority studies and projects. The main source of funding for these studies and projects is the General Fund.

Bexar County Capital Improvements Projects Fund - Accounts for expenses incurred in assisting Bexar County on capital improvement projects. Bexar County pays all expenses incurred.

Bexar County Capital Projects Fund - Accounts for flood control capital improvement projects within the boundaries of Bexar County. Bexar County pays all expenses incurred.

Bexar County San Antonio River Improvements Flood Tax Fund - Accounts for expenses incurred in assisting Bexar County on projects on the San Antonio River Improvement Projects. Bexar County pays all expenses incurred using proceeds from the flood control property tax assessment.

Bexar County Visitor Tax Fund - Accounts for betterment and enhancement expenses incurred in assisting Bexar County on projects on the San Antonio River Improvements Project. Bexar County pays all expenses incurred. The source of Bexar County funds is the visitor tax.

Bexar County Westside Creeks Restoration Projects Fund - Accounts for the improvements done through the Westside Creek Restoration Project. Bexar County pays all expenses incurred.

City of San Antonio Capital Improvement Projects 1999 Fund - Accounts for improvements on the San Antonio River and other watersheds as well as the Cibolo Creek Floodplain Buyout Program, all as authorized in the 1999 amendatory contract with Bexar County.

City of San Antonio Capital Improvements Project Fund - Accounts for expenses incurred in assisting the City of San Antonio with San Antonio River Improvement Projects. The City of San Antonio pays all expenses incurred.

City of San Antonio Westside Creeks Restoration Projects Fund - Accounts for the improvements to the Westside Creek Restoration Project paid by the City of San Antonio.

Downstream Capital Improvement Project Fund - Accounts for capital projects within the downstream counties of Goliad, Karnes and Wilson.

Other Capital Projects Fund - Accounts for capital projects funded by entities other than the City of San Antonio, Bexar County, or projects accounted for in the Downstream Capital Improvement Project Fund. The other entities pay all expenses incurred.

ENTERPRISE CAPITAL PROJECT FUNDS

Randolph Air Force Base Renewals and Replacements Fund - Accounts for the upgrade of the collection system at Randolph Air Force Base through a series of renewal and replacement projects.

Salatrillo Construction and Improvement Projects Fund - Accounts for the construction of and improvements to the wastewater treatment systems for residential and business customers of Converse, Universal City, Live Oak and Salatrillo Retail.

San Antonio River Authority Wastewater Systems Construction and Improvements Fund - Accounts for the construction of and improvement to wastewater treatment systems for residential and business customers within the San Antonio River Authority's Wastewater System.

ACCOUNTING SYSTEM

The River Authority's accounting records are maintained on a modified accrual basis for most funds. Revenues are recorded in the fiscal year in which they are available and measurable, and expenditures are recorded in the fiscal year when the services or goods are received and the liabilities are incurred. In addition, encumbrances are recorded during the year. Property tax revenues are susceptible to accrual, and are considered available to the extent collected within sixty days after the end of the fiscal year. Proprietary (enterprise)/internal service funds are accounted for using the accrual basis of accounting. Revenues are recognized when earned and expenses when they are incurred.

The River Authority's budgets are developed on a cash basis. Revenues are recognized only when collected and expenditures are recognized when paid. The River Authority annually adopts a balanced budget – meaning that total budgeted expenditures do not exceed total available funds (a combination of fund balance carried forward and revenues). The River Authority appropriates all available funds, including projected ending fund balances so that they can be used in the event of extraordinary, unexpected occurrences such as floods or hurricanes. Beginning fund balance is the amount of money available from the prior fiscal year (excess revenues over the amount actually expended in that year). It is accounted for and, as stated, can be appropriated annually.

Appropriations in the capital improvement funds, grant funds and some other project driven funds are made on a project basis (from inception to completion) rather than on an annual basis and are carried forward until the projects are completed. Except for project and grant appropriations, or for encumbrances outstanding in any fund, unused appropriations lapse at the end of each fiscal year.

The Adopted Budget appropriates funds using the following expenditure groups. Capital expenditures are defined as the purchase of an asset where the individual cost of an item is \$5,000 or greater.

- Personnel Expenditures
- Operating Expenditures
- Capital Expenditures
- Transfers
- Debt Service
- Contingency

Each expenditure group is the sum of individual, similar line item allocations. This presentation of budget data is designed to provide departments with detailed information but with greater flexibility in the management and control of their budgets. This system reduces unnecessary bureaucratic control while continuing to provide sound financial and management information. Although budgetary data is presented in the budget document according to expenditure group, detailed line item information has been input into the River Authority's financial management system.



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Organization Support		
Document control position	Position will support Legal services as well as support records retention and document management activities.	\$ 52,700
San Pedro Creek Art Program expenditure	Includes submittals for artists, marketing, etc. for San Pedro Creek Art Program	\$ 25,000
Park segment of the Museum Reach (Brackenridge Park) and other master planning efforts	Funds will be used to support stakeholder process; oversight committees and other public input processes as well as master plan development.	\$ 150,000
Total - Organization Support		\$ 227,700
	Total - Organization Support - Personnel	\$ 52,700
	Total - Organization Support - Operations	\$ 175,000
	Total - Organization Support - Capital	\$ -

Facilities		
General Fund funding for a portion of the Utilities Maintenance Supervisor position	Position now supports General Fund as well as Utilities facilities maintenance activities.	\$ 48,600
Guenther HVAC system evaluation and improvements	Guenther. Upon completion, a recommendation will be made regarding the most efficient system and the cost to purchase and install a new system. This study will present SARA with the most cost effective HVAC system for the Guenther facility. Includes design costs. Funding for this project (\$150,000) is included in the SARA Project Fund and comes from Unrestricted Reserves.	\$ -
Improvements to Euclid HVAC system	Study needed to ensure building HVAC needs are met at Euclid. Will focus on short term, cost effective system reconfigurations to provide appropriate room temperatures without major investments. Funding for this project (\$75,000) is included in the SARA Project Fund and comes from Unrestricted Reserves.	\$ -
Air conditioning units at Euclid to serve the area where servers and other technology are housed.	Air conditioning units to replace current existing roof units. Due to the age of the current units and the critical area they serve, two new units are being requested to ensure information technology equipment is in a stable environment.	\$ 25,000
Replacement roof at Lonestar Shop	Current roof is leaking.	\$ 37,000
Replacement leafguard gutters at Guenther	Leafguard gutters for Guenther building, old ones in need of replacement.	\$ 35,000
Replacement 3/4 ton 4x4 truck 4 door	Vehicle being replaced due to mileage, age and condition. Evaluation of vehicle fleet was completed to determine the number of vehicles needed as pool vehicles. Ten are being replaced and fifteen are being surplus, reducing the pool and WPO fleet by five vehicles.	\$ 50,000
Replacement 1/2 ton 4x4 truck 4 door	Vehicle being replaced due to mileage, age and condition. Truck will be in Euclid pool	\$ 35,000
Replacement 1/2 ton 4 door truck	Vehicle being replaced due to mileage, age and condition.	\$ 30,000
Replacement 1/2 ton 4 door truck	Vehicle being replaced due to mileage, age and condition.	\$ 30,000
Replacement 3/4 ton 4x4 truck 4 door	Vehicle being replaced due to mileage, age and condition.	\$ 38,000
Replacement 3/4 ton 4x4 truck 4 door	Vehicle being replaced due to mileage, age and condition.	\$ 38,000
Replacement 3/4 ton 4x4 truck 4 door	Vehicle being replaced due to mileage, age and condition.	\$ 38,000
Replacement 3/4 ton 4x4 truck with crane	Vehicle being replaced due to mileage, age and condition.	\$ 45,000
Replacement 3/4 ton 4x4 truck 4 door	Vehicle being replaced due to mileage, age and condition.	\$ 38,000
Replacement 4500 4x4 Flatbed 4 door	Vehicle being replaced due to mileage, age and condition.	\$ 52,000
Total - Facilities		\$ 539,600
	Total - Facilities - Personnel	\$ 48,600
	Total - Facilities - Operations	\$ -
	Total - Facilities - Capital	\$ 491,000

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Intergovernmental and Community Relations		
New Web Developer position - LTE	This request is for a limited term employee (LTE) Web Developer position to be housed in the IGCR Department with their full focus and attention on building the new website and story maps associated with the Watershed Wise River Discovery Project. Includes \$1,500 for computer and phone and \$150 for other support items.	\$ 50,146
Support to City of San Antonio Tricentennial	Funds will support SARA's involvement in activities in Bexar County and Goliad County, possibly Wilson and Karnes as well.	\$ 50,000
Total - Intergovernmental and Community Relations		\$ 100,146
Information Technology		
New LTE position for Business Applications Team	Will assist the Business Applications Team with lower level tasks to allow them to focus on software enhancements and report development to make the enterprise systems more efficient and effective for users.	\$ 29,141
New LTE position for Development and Database Team	Will assist the Development and Database Team with lower level tasks to allow them to focus on creating new databases, web services, web viewers and other higher levels services.	\$ 48,500
New LTE position for Geographic Information Systems (GIS) Team	Will assist GIS team with lower level tasks to allow them to focus on new development, impervious cover, basin assessment and other projects.	\$ 29,141
Add a physical server for Active Directory to support disaster recovery	Purchase service for Active Directory to support disaster recovery. Domain Controllers (DC) are server computers that respond to security authentication requests (logging in, checking permissions). Right now, SARA maintains all DCs in the virtual environment. However it is important to retain one physical DC per domain because if there is a major incident that affects the host or "crashes" the frame storage of our virtualized DC's, we would need to have at least one physical DC with local storage to perform recovery and maintain continuity.	\$ 3,500
Purchase of a server for SysLog and monitoring tools	Purchase of a physical server and software for the server for SysLog and monitoring tools to pursue the 20 critical controls in our cybersecurity efforts	\$ 4,795
Disaster recovery and cyber security improvements	For the business continuity and disaster recovery plan, we will audit, assess and improve our key information technology infrastructure. To address cybersecurity issues, SARA will start the adoption of the CIS Critical Security Controls.	\$ 50,000
GIS software licenses for additional functionality to move to 3D modeling	This is a request for several software applications to support our role in the community's SMART Cities initiatives, enhance our services related to participating in community planning, and increase technologies supporting Open Data. These new tools will strengthen our GIS and technical teams in the areas of: enhanced technical communication with the use of mockups/prototypes/user experience design, collaborative planning using community GIS data directly related to SA Tomorrow and CoSA's Comprehensive Plans, 3D community model development, and providing more integrated tools for GIS data quality control and workflow development.	\$ 11,685

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Cisco phone server upgrade	Upgrades our PBX system including equipment. The hardware portion of the current system is no longer supported by the manufacturer. This minimal investment to upgrade to the latest version retains hardware and software support and extends the life of our current investment.	\$ 40,000
Asset management software - consultant support	This funding will support the Lucity asset management system implementation to ensure the investment SARA is making is sound and fully functional: 1. Post installation system enhancements/adoption changes 2. Workflow - enhancements or new workflow models 3. Single sign on - integration 4. Reporting needs 5. Integration with ONESolution and barcode scanning software	\$ 22,500
CA Clarity PPM - consultant support	This funding supports the Clarity upgrade project to ensure user satisfaction and maximize system efficiency. 1. Project hours integration with Kronos and/or ONESolution 2. Workflows - new models or changes to existing models 3. New dashboards 4. Post implementation changes/enhancements 5. Reporting needs 6. Implementation of capacity and resource planning features	\$ 39,400
Kronos time keeping - consultant support	This funding supports enhancements to the Kronos timekeeping software to ensure compliance with SARA policies and provide staff efficiencies in managing time and payroll. 1. Integrate with ONESolution or Clarity for payroll automation 2. Single sign-on integration 3. Exception reporting 4. Configure alerts	\$ 17,000
ONESolution - consultant support	1. Post implementation changes and enhancements for Applicant Online and Contract Management 2. Security access and permission implementation according to best practices 3. Kronos and Clarity integration for payroll 4. Payroll module automation/enhancements 5. Invoice routing implementation 6. Reports restructuring/enhancements; 7. Accounts payable automation/enhancements	\$ 96,000
Desktop computer replacement program	Continuation of the computer replacement program to keep all equipment at less than 4 years old. Includes purchase of 27 desktops, 4 laptops	\$ 56,300
Conference rooms improvements	SARA has multiple conference rooms across several sites that need to be standardized and repaired to provide a stable, easy to use, system for the users of the rooms. We will utilize much of the existing equipment, where possible, to bring the room up to a standard. The most used rooms will be completed in FY 2017/18.	\$ 20,000
WebCAMs to support Skype meetings	WebCAMs will be purchased to facilitate virtual meetings with internal and external participants.	\$ 2,400
Acquire ShareGate software (part of Office 365)	This is an Office 365 and SharePoint migration tool which will allow migration of documents from physical folders to the cloud to provide us with high availability, business continuity and rapid recovery.	\$ 4,000

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Acquisition of a drone and staff certifications to operate	Drone will be used to help develop story maps by providing more current geospatial imagery. It can be used for time-lapse documentation of construction projects. Includes cost to certify two staff members.	\$ 2,800
Replacement scanner for Watershed Engineering	Replacement scanner for Watershed Engineering for scanning high resolution plans sheets and large prints. Current scanner is unreliable.	\$ 17,000
Total - Information Technology		\$ 494,162
	Total - Information Technology - Personnel	\$ 106,782
	Total - Information Technology - Operations	\$ 330,380
	Total - Information Technology - Capital	\$ 57,000

Environmental Sciences - Laboratory		
One new LTE position to support laboratory information software (LIMS) system implementation	Position will support LIMS implementation, particularly data management and workflow design. Cost includes computer and phone (\$2,000)	\$ 23,947
Two tablets for use by laboratory staff	Remote access to workstations, procedure documents, forms, LIMS and spreadsheets	\$ 3,000
Replace Ion Chromatograph	Replace underperforming and obsolete unit which is about 10 years old. Need this unit to accommodate current workloads.	\$ 65,000
Replacement Autoclave	Replace underperforming and aging unit which is over 10 years old	\$ 10,000
Replacement Discrete Analyzer	current workloads and develop new capabilities in soils/sediment.	\$ 50,000
Total - Environmental Sciences - Laboratory		\$ 151,947

Environmental Sciences - Planning and Administration		
Remote communications system components for stormwater functions	This funding will allow staff to remote into stormwater monitoring systems for the purpose of ensuring 1) the equipment triggered properly, 2) the rain events produced qualifying amounts of precipitation, and 3) the equipment worked properly throughout the whole rain event before staff are sent into the storms to collect the samples. It will also let staff know when all the bottles have been filled, allowing them to better time when they depart to collect qualifying samples. The plan is to place the systems at our most remote locations, which, when systems fail or rain events don't materialize, unnecessarily direct staff away from qualifying events elsewhere.	\$ 6,363
Additional ruggedized laptop for use by stormwater staff	Will be used for calibrating, troubleshooting, and downloading data from data loggers, EXO2 sondes, and ISCOs. Have one, but a second is needed to cover all sites and use staff time more efficiently.	\$ 2,500
Additional laptop computer	Will be used for off-site presentations, training, etc.	\$ 2,200
Post construction stormwater analysis	To meet contractual requirements to provide services and to leverage City of San Antonio contributions	\$ 35,700
Stormwater Monitoring: EXO2	Needed for calibration and instrument rotation. Only have one spare now. A second would allow for more efficient use of staff time and fewer trips into the field.	\$ 10,500
Total - Environmental Sciences - Planning and Administration		\$ 57,263
Total - Environmental Sciences		\$ 209,210
	Total - Environmental Sciences - Personnel	\$ 23,947
	Total - Environmental Sciences - Operations	\$ 49,763
	Total - Environmental Sciences - Capital	\$ 135,500

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Watershed Engineering		
New Engineer position	Position will handle FEMA grant funded workload and so will be funded to a great extent through grant funding and reimbursements. (Includes \$1,040 for certification pay, \$1,667 for furniture, \$2,200 for computer, \$150 for recognition, \$2,000 for training and \$260 for dues/subscriptions).	\$ 116,466
New Engineering Technician position	Additional workload is driving need for additional position. (Includes \$1,667 for furniture, \$2,200 for computer, \$150 for recognition, \$2,000 for training and \$260 for dues/subscriptions).	\$ 62,731
New Project Manager position (original request was Engineer position)	Position will provide additional staffing resources to manage partner funded projects as well as SARA funded projects. (Includes \$1,040 for certification pay, \$1,667 for furniture, \$2,200 for computer, \$150 for recognition, \$2,000 for training and \$260 for dues/subscriptions).	\$ 95,157
Add Goliad water quality gage	The new water quality gage fills a gap in our monitoring network, where we lack data on the downstream point of the River Basin. The gage will be a critical component in moving forward with the Texas Instream Flows Program, to better understand the impacts and incidence of critical levels of temperature and dissolved oxygen. In addition, it will be used in our mussel studies. The gage will also be key to supporting calibration of the lower San Antonio River water quality models and EDYS. Furthermore, because the data is publicly available, entities such as Canoe Trail Goliad would be able use the data to inform the public of the safety of using the river. Installation cost is \$60,000 and annual cost is \$47,000 with \$23,500 in FY 2017/18 (partial year)	\$ 83,500
Total - Watershed Engineering		\$ 357,854
Total - Watershed Engineering - Personnel		\$ 274,354
Total - Watershed Engineering - Operations		\$ 83,500
Total - Watershed Engineering - Capital		\$ -

Watershed Parks Operations		
Replacement golf cart	Replace existing single seat that is used on smaller trails and at Jackson. Existing cart in fleet has been repaired multiple times and continues to be unreliable. Used by Parks.	\$ 8,500
Replace golf cart with mule	Replace existing golf cart with a mule, which would be used with others in more of a work or maintenance setting. Mule provides larger hauling capacity and suspension to support work daily activities such as vegetation work, hauling mulch, rock work, etc. Used by Parks.	\$ 15,000
Replacement Mule	Current mule is dated, in poor condition, and has been repaired multiple times. Used on Museum Reach by Landscaping.	\$ 16,000
Replacement Mule	Replace existing mule purchased at the beginning of the Museum Reach project because it is beyond its useful life. We are experiencing normal issues seen with time, clutches, drives, etc. Used on Museum Reach by Operations.	\$ 15,000
Replacement Mule	Replacement mule because of high operating hours, maintenance issues, and amount (\$2,000) spent on repairs. Used on Mission Reach by Landscape.	\$ 16,000
Replacement Mule	Replace existing mule at the Calaveras Shop because it is beyond its useful life. Multiple repairs, etc.	\$ 15,000

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Replacement mule	Replacement of mule used on Mission Reach by Operations.	\$ 15,000
Replacement mule	Replacement of mule due to numerous operating hours and increased maintenance costs. Used on Mission Reach by Landscape.	\$ 16,000
Replacement 60" Zero turn mower	Replace existing older zero turn mower, which has been used more than originally anticipated due to new areas WPO is responsible for maintaining adjacent to the Mission Reach project. Used on Mission Reach by Operations.	\$ 12,800
Replacement Grasshopper mower with upgraded capacity	The new mower would be a replacement for an existing Grasshopper mower which is more geared to a smaller-scale mowing and isn't suitable for use on the rough terrain and dense grass on the Mission Reach or adjacent parks. The new mower will perform more effectively on the Mission Reach. Used on Mission Reach by Landscaping.	\$ 13,500
New pressure washer - hot and cold	Will support cleaning off various new areas at Graytown, Helton and Branch Parks. With additional surfaces to manage, this will be mounted onto existing small trailer that could be used in tandem with water tank. Used by Parks.	\$ 6,000
Increased contracted services	Funds will be used for various purposes including: Vegetation Assessment: Experienced project consultant to provide third-party, scientific assessment of Mission Reach Ecosystem Restoration efforts to assist in mapping native species coverage and providing essential, periodic recommendations for SARA. Specialized Aquatic Herbicides: Licensed and highly-specialized herbicide applicator contractor to complete non-native aquatic species control on Park Reach and Mission Reach portions of the San Antonio River. Control of Elephant Ear, Water Hyacinth, and other aquatic, non-native weeds. Soil Nutrient Site Assessment: soil assessment, testing, and analysis for recommendations for remediation to improve seeding efforts for native vegetation on Mission Reach Ecosystem Restoration project. Assessment to include multiple vegetative zones within the project to determine needed soil amendments/fertilizer/etc. Debris/Litter Removal: Additional funding for flood debris removal	\$ 93,000
Additional eco-counters	WPO currently has 5 trail counters along the Mission and Museum Reaches that use the Eco-Counter software to report data, daily. Vehicle counters are also in place at Helton and Graytown Parks. This funding adds vehicle counters, which use the same software, at Jackson and Branch Parks and mobile counters at Branch and Graytown Parks. Additional counters will increase our capability to determine park usage.	\$ 12,000
New 20' lowboy gooseneck trailer	New trailer to support material and equipment transportation. This addition will increase operational efficiency because staff currently has to coordinate between shops for heavy equipment/material transportation. Used on Museum Reach by Operations.	\$ 7,600
New front end loader for use with existing tractor	Equipment will expand capabilities and use of existing tractor. This attachment to an existing piece of equipment will expand capabilities currently limited to backhoe. Used by Parks.	\$ 11,800

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
New dual tandem gooseneck trailer	New trailer will be used to haul the tractor and shredder to park locations. This addition will increase operational efficiency as staff will no longer have to drive equipment down roads. This will save staff time and unnecessary wear on the equipment. Used by Parks.	\$ 13,000
New laptop for use at Lock and Dam	Laptop needed for technicians working the booth. Will be used for various purposes and save staff time from having to go to other locations to access a computer.	\$ 2,200
New hydraulic post driver	Addition to WPO inventory to help drive in posts for fence construction and repairs. Increases productivity by reducing man hours spent digging holes by hand.	\$ 6,500
New hydraulic concrete mixer	Increases productivity by reducing man hours spent handling bags of concrete and mixing by hand. The mixer will also help place the mixed materials and will result in less spills. Will be used for in-house fence work, setting corners that needs to be concreted, etc.	\$ 5,800
New sport utility boat	Support inspection of the paddling trail and scouting for debris upstream of debris barge. This wave runner type machine would be modified to accommodate lights, small tool box etc. for debris and if river response was needed. Used by Parks.	\$ 30,000
New shredder attachment for skid steer	This will be used with existing skid steer to access areas that are hard to get to for mowing, steep grades as well as management in similar areas on the nature based parks. At this time, Parks borrows a landscape all terrain mower, but doesn't catch everything. Will also be used at Graytown Park. Used by Parks and on Mission Reach by Operations.	\$ 6,500
Smart City Benches	Provides funding for one bench on the Mission of Museum Reach to support the City of San Antonio's Office of Innovation Smart City initiative. Benches provide Wi-Fi access for citizens.	\$ 5,000
Total - Watershed Park Operations		\$ 342,200

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Watershed Park Operations - San Pedro Creek		
Pedro Creek project; cost reflects one foreman, one crewleader and two technician positions.	To begin the operations and maintenance of San Pedro Creek. Includes uniforms (\$1,500), employee recognition (\$300), safety equipment (\$5,000).	\$ 246,736
One new mule	To begin the operations and maintenance of San Pedro Creek.	\$ 15,000
Two new mules with dump bed	To begin the operations and maintenance of San Pedro Creek.	\$ 32,000
Three new trucks	To begin the operations and maintenance of San Pedro Creek.	\$ 126,000
New zero turn mower	To begin the operations and maintenance of San Pedro Creek.	\$ 12,800
New power washer	For support cleaning on various new trails. With additional surfaces to manage this will be mounted onto small trailer that could be used in tandem with water tank. Used by Landscaping.	\$ 6,000
New trailer	To begin the operations and maintenance of San Pedro Creek.	\$ 1,500
New dump trailer	To begin the operations and maintenance of San Pedro Creek.	\$ 10,000
New haul trailer	To begin the operations and maintenance of San Pedro Creek.	\$ 2,000
Total - Watershed Park Operations - San Pedro Creek		\$ 452,036
Total - Watershed Park Operations		\$ 794,236
Total - Watershed Park Operations - Personnel		\$ 246,736
Total - Watershed Park Operations - Operations		\$ 98,700
Total - Watershed Park Operations - Capital		\$ 448,800
TOTAL - GENERAL FUND		
TOTAL - GENERAL FUND PERSONNEL		\$ 803,265
TOTAL - GENERAL FUND OPERATIONS		\$ 787,343
TOTAL - GENERAL FUND CAPITAL		\$ 1,132,300

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Salatrillo		
Replace vector truck	Replace 2006 vector truck due to age and continuous equipment repairs (\$450,000 cost less \$30,000 trade in)	\$ 420,000
Replace gear boxes	Replace three gear boxes, two at Salatrillo lower and one at Salatrillo top due to age and continuous equipment repairs	\$ 180,000
Replacement Chevy 1500 Crew Cab 4x4	Vehicle being replaced due to mileage, age and condition. Evaluation of vehicle fleet was completed to determine the number of vehicles needed as pool vehicles. Five are being replaced and at least seven are being surplus, reducing the pool fleet by two vehicles.	\$ 40,000
Replacement Chevy 1500 Crew Cab 4x4	Vehicle being replaced due to mileage, age and condition.	\$ 40,000
Additional Tommy Lift Gate	Need a lift gate installed on a truck to load heavy objects for transport. There is currently not another efficient and safe lift option.	\$ 7,000
Replacement steam scrubber for lab	Replace scrubber used for cleaning sampling equipment for lab use.	\$ 7,600
Salatrillo Wastewater Collection System Inflow and Infiltration Program (SSOI)	Ten year capital improvement plan project	\$ 433,890
Sewershed master plan	Ten year capital improvement plan project	\$ 92,040
Total - Salatrillo		\$ 1,220,530
SARA Wastewater		
General Fund funding for a portion of the Utilities Maintenance Supervisor position	Position now supports General Fund as well as Utilities facilities maintenance activities.	\$ (48,600)
Replacement belt press	Replacement belt press at Martinez II wastewater treatment plant due to age and continuous repairs	\$ 60,000
Replacement polymer system	Replace polymer system at Martinez II wastewater treatment plant due to age and continuous repairs	\$ 100,000
Replacement Chevy 2500 Crew Cab 4x4	Vehicle being replaced due to mileage, age and condition. Evaluation of vehicle fleet was completed to determine the number of vehicles needed as pool vehicles. Five are being replaced and at least seven are being surplus, reducing the pool fleet by two vehicles.	\$ 45,000
Replacement Chevy 2500 Crew Cab 4x4	Vehicle being replaced due to mileage, age and condition.	\$ 45,000
Replacement Chevy 1500 Crew Cab 4x3	Vehicle being replaced due to mileage, age and condition. The replacement will also add more capacity for people, tools, and towing. Cost is net of \$4,000 trade-in	\$ 36,000
Replacement tire balancer and changer	The hydraulics do not work properly on the current tire balance and changer.	\$ 15,200
Replacement 30 horsepower tractor	Current tractor is past its useful life. It is used for spraying and using other small implements in and around wastewater treatment plants in tight quarters. The current tractor has problems with oil and injection pump leaks, and is believed to be a 1985 model.	\$ 15,300
New utility vehicle (gas powered)	A new utility vehicle to use on the outfalls. This will improve operational efficiency by allowing staff to quickly assess outfall lines.	\$ 15,000
SARA Wastewater Collection System Inflow and Infiltration Program (SSOI)	Ten year capital improvement plan project	\$ 303,525
Sewershed master plan including 25 flow meters for one year	Ten year capital improvement plan project	\$ 260,000
Subsurface Utility Exploration	Ten year capital improvement plan project	\$ 104,120
Replacement 48 inch screw pump at Martinez II Wastewater Treatment Plant	Ten year capital improvement plan project	\$ 440,830

New Resources for FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Amount Approved
Replacement 66 inch screw pump at Martinez II Wastewater Treatment Plant	Ten year capital improvement plan project	\$ 440,830
Roadwork to address hazardous road conditions	Ten year capital improvement plan project	\$ 195,340
Cash funding for costs associated with design and construction of the new Martinez IV Wastewater Treatment Plant	Ten year capital improvement plan project	\$ 600,000
Total - SARA Wastewater		\$ 2,627,545
TOTAL - WASTEWATER UTILITY		\$ 3,848,075
	TOTAL - WASTEWATER UTILITY PERSONNEL	\$ -
	TOTAL - WASTEWATER UTILITY OPERATIONS	\$ -
	TOTAL - WASTEWATER UTILITY CAPITAL	\$ 3,896,675
GRAND TOTAL		\$ 6,570,983
	GRAND TOTAL - PERSONNEL	\$ 803,265
	GRAND TOTAL - OPERATIONS	\$ 787,343
	GRAND TOTAL - CAPITAL	\$ 5,028,975

Project Name	FY 2017/18 Funding
GENERAL FUND	
<u>Natural Resource Protection Program</u>	
Clean Rivers Program 2017	\$ 23,000
Feral Hog Management	75,000
Laboratory Management Software Replacement	100,000
Mission Reach Avian Study - Year 3	79,000
USGS Oil and Gas Production Constituents Phase II	55,000
Watershed Wise River Discovery	250,000
Total - Natural Resource Protection Program	\$ 582,000
<u>Nature Based Park Program</u>	
John William Helton San Antonio River Nature Park	175,000
Mission Reach Erosion Repairs	400,000
Trueheart Park Site Security	75,000
Upgrade Electrical Infrastructure on Museum Reach (Lexington to Lock and Dam)	360,000
Westside Creek Linear Creek Trails and Elmendorf Lake Park	75,000
Total - Nature Based Park Program	\$ 1,085,000
<u>Sustainable Watershed Implementation Program</u>	
Edwards Aquifer Watershed Protection (Proposition 1)	20,244
Watershed Wise Rebate Program	500,000
Total - Sustainable Watershed Implementation Program	\$ 520,244
<u>Watershed Modeling, Studies and Planning Program</u>	
Basin Assessment Mapping and Analysis Tool	35,500
Cibolo Creek Watershed Master Plan, Tributary Modeling and Wastshed Master Plans Integration	300,000
Impervious Cover Mitigation	200,000
Total - Watershed Modeling, Studies and Planning Program	\$ 535,500
<u>Watershed Safety and Response Program</u>	
Cooperating Technical Partners (CTP) Development	55,000
Digital Data and Model Repository (D2MR) - Redevelopment	140,000
FloodWorks Website Enhancement	-
Total - Watershed Safety and Response Program	\$ 195,000
TOTAL - GENERAL FUND	\$ 2,917,744
SARA PROJECT FUND - RESERVES	
Facilities Acquisition/Improvements Project	600,000
Total	\$ 600,000
SAN ANTONIO CAPITAL IMPROVEMENTS PROJECT LAND SALES	
<u>Nature Based Park Program</u>	
Westside Creeks San Pedro Creek	435,000
Total - Nature Based Park Program	\$ 435,000
GRAND TOTAL	\$ 3,952,744

Unfunded New Resources Requests FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Unfunded Request
Facilities		
New 400 KW generator for Guenther	New Generator to provide backup power to the Guenther building. Includes \$138,000 for equipment and \$100,000 for installation services	\$ 238,000
Total - Facilities		\$ 238,000

Intergovernmental and Community Relations		
Make part time Education Coordinator position full time	Requested to meet the growing demand for K-12 educational outreach . Currently have more demand for services than staff capacity to fulfill.	\$ 38,927
Total - Intergovernmental and Community Relations		\$ 38,927

Information Technology		
Consultant services to audit, assess and improve high availability infrastructure; consultant services to support cybersecurity project; MSISAC continued enhancements	Supports business continuity and disaster recovery planning; supports audit, assessment and improvement of our high availability infrastructure and development of the plan. To address cybersecurity issues, IT will start the adoption of the CIS critical security controls and would engage outside contractors to complete tasks that staff does not have time and/or expertise to address. Cybersecurity MSSP - MSISAC is the focal point for cyber threat prevention, protection, response and recovery for the nation's state, local, tribal and territorial (SLTT) governments. This requested funding will support a Phishing campaign to create awareness on email cyber threats. These activities are funded at \$50,000 in FY 2017/18.	\$ 25,500
Development and Database Team consulting support	Outside professional services would augment internal staff resources to address workload that is challenging due to lack of capacity or specialization.	\$ 24,000
Continued implementation of Office 365, moving from E1 to E3 level and gaining additional functionality	Would allow for full implementation of all Office 365 functionality. \$25,028 funded in FY 2017/18.	\$ 43,272
Conference Rooms Improvements	SARA has multiple conference rooms across several sites that need to be standardized and repaired to provide a stable, easy to use, system for the users of the rooms. We will utilize much of the existing equipment, where possible, to bring the room up to a standard. The most used rooms will be completed in FY 2017/18 with funding of \$20,000.	\$ 30,000
Acquisition of a drone and staff certifications to operate	Drone will be used to help develop story maps by providing more current geospatial imagery. It can be used for time-lapse documentation of construction projects. Includes cost to certify two staff members. The FY 2017/18 Budget includes \$2,800 for this activity.	\$ 2,000
Total - Information Technology		\$ 124,772

Environmental Sciences - Laboratory		
Make current part time position full time (Water Quality Scientist I)	Position will help address increases in workloads, lab analysis, and new projects	\$ 36,447
UltraPure Water System for Bacterial Source Tracking testing	Water purification system to prepare ultra pure water for use in the laboratory	\$ 5,000
Total - Environmental Sciences - Laboratory		\$ 41,447

Environmental Sciences - Planning and Administration		
Professional services to complete webviewer enhancements	Development Services for webviewer improvements including displaying charts, adding widgets, creating impairment data websites, and other enhancements.	\$ 30,000
Total - Environmental Sciences - Planning and Administration		\$ 30,000
Total - Environmental Sciences		\$ 71,447

Unfunded New Resources Requests FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Unfunded Request
Watershed Parks Operations		
New Riparian Operations Technician I position - Museum Reach	Position would assist existing staff on the Museum Reach. One foreman and two technician positions work on the Museum Reach with some assistance from lock and dam technicians. With weekend rotation, the operations technician works alone if the foreman is occupied.	\$ 50,604
New Riparian Operations Technician I position - Mission Reach	Position would assist existing staff to accommodate additional responsibility on Mission Reach with Confluence Park and Brooks City Base Trail.	\$ 50,604
2 new Park Technician I positions	Two positions were added in FY 2016/17 to begin staffing for the operations and maintenance of San Pedro Creek. These positions currently perform functions in other areas. This request is to keep these two positions in their current responsibilities and add two positions for the San Pedro Creek functions.	101,210
Six Seasonal Workers (Riparian Landscape Technician)	Includes uniforms (\$3,750), training (\$750), employee recognition (\$375), safety equipment (\$1,250), rental of a utility vehicle (\$5,000)	\$ 55,795
1) Vegetation Assessment Consultant; 2) Specialized Aquatic Herbicide Contractor; 3) Soil Nutrient Site Assessment Consultant; 4) Prescribed Burn Services; 5) Flood Debris Removal; 6) Vegetation Management Services; 7) Woody Perennials Planting Services	<p>1) Experienced project consultant to provide third-party, scientific assessment of Mission Reach Ecosystem Restoration efforts to assist in mapping native species coverage and providing essential, periodic recommendations.</p> <p>2) Licensed and highly-specialized herbicide applicator contractor to complete non-native aquatic species control on Park Reach and Mission Reach portions of the San Antonio River. Control of Elephant Ear, Water Hyacinth, and other aquatic, non-native weeds. Two treatments for each site to include an initial and follow-up treatment.</p> <p>3) Experienced consultant to provide soil assessment, testing, and analysis for recommendations for remediation to improve seeding efforts for native vegetation on Mission Reach Ecosystem Restoration project. Assessment to include multiple vegetative zones within the project to determine needed soil amendments/fertilizer/etc.</p> <p>4) Licensed and highly-specialized controlled/prescribed burn contractor focusing on vegetation control to aid in ecosystem restoration, vegetation management, and hazard fuel mitigation on Mission Reach.</p> <p>5) Based on actuals and new contract rates, \$60,000 of additional funding is requested to reflect the anticipated cost of flood debris removal along the Mission Reach.</p> <p>6) An additional \$20,000 in funding is requested for thatch cleanup and an anticipated increase in contract cost for contracted vegetation management efforts for entire Mission Reach area. Typical efforts include woody tree removal, hand weed removal, tree seedling/grass plug/milkweed planting effort, and vegetation thatch removal.</p> <p>7) Contract effort to grow woody perennial plants for establishment along the toe of the river along the Mission Reach to combat erosion, and increase species diversity and wildlife habitat.</p>	\$ 125,000
Compact off road dump truck	Will be used to support materials transportation and erosion repairs along the Mission Reach. It weighs less than a normal dump truck and, therefore doesn't exceed the trail rating for weight. This addition will increase operational efficiency because it allows staff to stay on the trail while dumping material directly where repairs are needed and handles more than a front end loader bucket. Staff have not rented due to availability. Used on Mission Reach by Operations.	\$ 42,000
Smart City Benches	The FY 2017/18 Budget funds one Smart City bench at \$5,000 as a test case. The original request was for four benches, two on Mission Reach and two on Museum Reach. This project is in conjunction with the City of San Antonio's Office of Innovation.	\$ 15,000
Mini Sweeper	Request is for a self contained sweeper that recycles water. This equipment would be useful for the operations and maintenance of San Pedro Creek and would provide benefits to the Museum Reach Operations as well.	\$ 180,000
Total - Watershed Park Operations		\$ 620,213
TOTAL - GENERAL FUND		\$ 1,093,359

Unfunded New Resources Requests FY 2017/18

Description	Business Justification/Benefit to SARA and/or Stakeholders	Unfunded Request
Salitrillo		
Additional Rotary Lift (15,000 lb. capacity)	Additional vehicle lift is needed due to the anticipated increase in the workload from servicing all vehicles organization-wide. The equipment is tied to the request for additional fleet maintenance staff.	\$ 14,000
Roadwork	Newest road was constructed in 1998 and current roads are in failure which causes greater wear and tear on vehicles. Project would complete full restoration of the roadway through reconstruction.	\$ 469,340
Total - Salitrillo		\$ 483,340
SARA Wastewater		
1 new Equipment Technician I position in fleet maintenance	Position would handle additional workload resulting from expanding fleet maintenance and repair duties.	\$ 51,874
1 new Industrial Waste Inspector position for industrial waste inspection	Position would support the Industrial Waste Program. The program is negatively impacted due to a lack of staff availability to perform inspections of industrial wastewater customers. Car washes need to be inspected regularly to insure oil and sand separators are being pumped out and maintained. Restaurants need to be inspected quarterly to insure grease traps are being pumped out. This additional staff member would also assist in operations of the wastewater treatment plant. Funding request was for six months for the initial year; fees would help offset costs.	\$ 54,474
Acquisition of land adjacent to the Martinez IV Wastewater Treatment Plant	The purchase of this adjacent land would provide space for future plan expansion.	\$ 200,000
Total - SARA Wastewater		\$ 306,348
TOTAL - WASTEWATER UTILITY		\$ 789,688
GRAND TOTAL		\$ 1,883,047

REVENUES



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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01 GENERAL FUND

	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
<u>Property Taxes</u>				
4101 Property Taxes - Bexar County	\$ 21,931,353	\$ 23,441,558	\$ 23,627,060	\$ 24,808,413
4102 Property Taxes - Karnes County	1,514,984	953,700	869,880	943,230
4103 Property Taxes - Goliad County	172,280	173,499	163,900	154,558
4104 Property Taxes - Wilson County	465,573	421,941	425,120	439,999
4111 Delinquent Taxes	390,355	516,098	721,850	757,943
4122 TIRZ	(43,249)	(45,844)	(40,000)	(42,000)
<i>Subtotal - Property Taxes</i>	24,431,296	25,460,952	25,767,810	27,062,143
<u>Investment Earnings</u>				
4201 Investment Earnings	153,872	161,782	153,269	168,600
<i>Subtotal - Investment Earnings</i>	153,872	161,782	153,269	168,600
<u>Intergovernmental Revenue</u>				
4250 Intergovernmental Revenue	295,516	338,142	305,650	350,000
4270 Sponsorships	10,000	10,000	20,000	10,000
<i>Subtotal - Intergovernmental Revenue</i>	305,516	348,142	325,650	360,000
<u>Charges for Services</u>				
4411 Lab Samples	238,603	260,270	260,270	270,000
4414 Equipment Usage Reimbursement	29,823	30,000	-	15,000
4421 Administrative Fee	15,200	20,000	14,200	15,000
4425 Rentals/Leases	79,058	69,043	60,680	65,000
4426 Parks Usage Fees	27,300	16,967	20,450	25,000
4432 Water Sales	272,034	272,034	266,200	270,000
4652 Costs of Goods Sold-Hard Drive	(49)	-	-	-
4655 Gate Receipts	122	-	-	-
4467 Sale of Fixed Assets	-	20,000	-	10,000
4493 San Antonio River Foundation	44,950	35,969	35,969	35,969
<i>Subtotal - Charges for Services</i>	707,041	724,283	657,769	705,969
<u>Miscellaneous</u>				
4511 Miscellaneous	115,224	152,000	60,660	150,000
4512 ICMA Retirement	437,451	15,000	10,000	10,000
4513 Election Filing Fees	300	-	-	-
4205 Interest Earning NR	12,846	11,846	11,846	11,846
4465 Sale of Hay	8,740	9,000	15,000	10,000
<i>Subtotal - Miscellaneous</i>	574,561	187,846	97,506	181,846
<u>Support Fees</u>				
4701 SARA Wastewater Systems	1,438,071	1,691,793	1,691,793	1,488,886
4704 Salatrillo Wastewater System	717,959	710,417	710,417	813,745
4705 Salatrillo Retail	145,601	-	-	-
<i>Subtotal - Support Fees</i>	2,301,631	2,402,210	2,402,210	2,302,631
<u>Reimbursements</u>				
4801 Reimbursements	1,869,872	-	-	-
<i>Subtotal - Reimbursements</i>	1,869,872	-	-	-
<u>Transfers</u>				
4901 Transfers	111,057	-	-	-
<i>Subtotal - Transfers</i>	111,057	-	-	-
TOTAL GENERAL FUND	\$ 30,454,846	\$ 29,285,215	\$ 29,404,214	\$ 30,781,189

Return to TOC

	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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02 DEBT SERVICE FUND

Investment Earnings

4201 Investment Earnings	\$ 12,343	\$ 20,000	\$ 25,715	\$ 28,300
<i>Subtotal - Investment Earnings</i>	<i>12,343</i>	<i>20,000</i>	<i>25,715</i>	<i>28,300</i>

Transfers

4904 Transfers - Flood Control Tax	166,287	-	-	-
4901 Transfers - General Fund	465,198	597,184	596,184	596,184
Transfers - Utilities and Utility Contracts		-	-	
<i>Subtotal - Transfers</i>	<i>631,485</i>	<i>597,184</i>	<i>596,184</i>	<i>596,184</i>

Intergovernmental Revenue

4250 Flood Control Tax	2,986,452	2,975,910	2,975,910	2,975,406
4250 ACCD First Responder	-	77,708	-	-
4250 ACCD Reuse and Universal City Reuse	-	379,452	-	-
<i>Subtotal - Intergovernmental Revenue</i>	<i>2,986,452</i>	<i>3,433,070</i>	<i>2,975,910</i>	<i>2,975,406</i>

TOTAL DEBT SERVICE FUND	\$ 3,630,280	\$ 4,050,254	\$ 3,597,809	\$ 3,599,890
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04 PROJECT FUND

Intergovernmental Revenue

4250 Intergovernmental Revenue	\$ 38,256	\$ -	\$ -	\$ -
<i>Subtotal - Intergovernmental Revenue</i>	<i>38,256</i>	<i>-</i>	<i>-</i>	<i>-</i>

Transfers

4901 Transfers (From General Fund)	10,746,025	4,292,144	4,292,144	3,145,832
<i>Subtotal - Transfers</i>	<i>10,746,025</i>	<i>4,292,144</i>	<i>4,292,144</i>	<i>3,145,832</i>

Other Sources

4991 Bond Issuance	1,200,000	-	-	-
<i>Subtotal - Other Sources</i>	<i>1,200,000</i>	<i>-</i>	<i>-</i>	<i>-</i>

TOTAL PROJECT FUND	\$ 11,984,281	\$ 4,292,144	\$ 4,292,144	\$ 3,145,832
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11 CITY OF SAN ANTONIO SARIP FUND

Investment Earnings

4201 Investment Earnings	\$ 1,069	\$ -	\$ 1,043	\$ 2,000
<i>Subtotal - Investment Earnings</i>	<i>1,069</i>	<i>-</i>	<i>1,043</i>	<i>2,000</i>

Intergovernmental Revenue/Transfers

4250/4901 Intergovernmental Revenue/Transfers	2,588,477	3,171,342	369,063	5,777,780
<i>Subtotal - Revenue</i>	<i>2,588,477</i>	<i>3,171,342</i>	<i>369,063</i>	<i>5,777,780</i>

TOTAL COSA SARIP FUND	\$ 2,589,546	\$ 3,171,342	\$ 370,106	\$ 5,779,780
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Return to **19 BEXAR COUNTY CAPITAL IMPROVEMENTS FUND**

Intergovernmental Revenue

4250 Intergovernmental Revenue	\$ 73,870	\$ 941,919	\$ 47,230	\$ 851,726
<i>Subtotal - Intergovernmental Revenue</i>	<i>73,870</i>	<i>941,919</i>	<i>47,230</i>	<i>851,726</i>

TOTAL BEXAR COUNTY CIP FUND	\$ 73,870	\$ 941,919	\$ 47,230	\$ 851,726
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	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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14 MEDINA DAM FUND

Intergovernmental Revenue

4250 Intergovernmental Revenue	\$	49,283	\$	50,000	\$	50,000	\$	75,000
<i>Subtotal - Intergovernmental Revenue</i>		<i>49,283</i>		<i>50,000</i>		<i>50,000</i>		<i>75,000</i>

TOTAL MEDINA DAM FUND	\$	49,283	\$	50,000	\$	50,000	\$	75,000
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22 SACIP LAND SALES FUND

Investment Earnings

4201 Investment Earnings	\$	844	\$	400	\$	840	\$	840
<i>Subtotal - Investment Earnings</i>		<i>844</i>		<i>400</i>		<i>840</i>		<i>840</i>

Charges for Services

4423 License Agreements		39,611		40,000		40,300		40,000
4425 Rental/Leases		14,604		15,520		19,328		15,100
4467 Sale of Fixed Assets		-		-		528,990		-
<i>Subtotal - Charges for Services</i>		<i>54,215</i>		<i>55,520</i>		<i>588,618</i>		<i>55,100</i>

TOTAL SACIP LAND SALES FUND	\$	55,059	\$	55,920	\$	589,458	\$	55,940
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23 PUBLIC FACILITIES CORPORATION FUND

Investment Earnings

4201 Investment Earnings	\$	8	\$	-	\$	-	\$	-
<i>Subtotal - Investment Earnings</i>		<i>8</i>		<i>-</i>		<i>-</i>		<i>-</i>

Charges for Services

4425 Rental/Leases		182,738		182,674		182,674		182,283
<i>Subtotal - Charges for Services</i>		<i>182,738</i>		<i>182,674</i>		<i>182,674</i>		<i>182,283</i>

TOTAL PUBLIC FACILITIES CORP FUND	\$	182,746	\$	182,674	\$	182,674	\$	182,283
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24 SAR INDUSTRIAL DEVELOPMENT AUTHORITY FUND

Investment Earnings

4201 Investment Earnings	\$	72	\$	50	\$	110	\$	100
<i>Subtotal - Investment Earnings</i>		<i>72</i>		<i>50</i>		<i>110</i>		<i>100</i>

TOTAL SAR INDUSTRIAL DEV. AUTH. FUND	\$	72	\$	50	\$	110	\$	100
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26 PARK RESOURCES DEVELOPMENT FUND

Investment Earnings

4201 Investment Earnings	\$	898	\$	180	\$	1,545	\$	500
<i>Subtotal - Investment Earnings</i>		<i>898</i>		<i>180</i>		<i>1,545</i>		<i>500</i>

Miscellaneous

4424 Easement Fees		9,843		-		-		-
<i>Subtotal - Miscellaneous</i>		<i>9,843</i>		<i>-</i>		<i>-</i>		<i>-</i>

Charges for Services

4467 Sale of Fixed Assets		23,971		20,000		22,345		20,000
<i>Subtotal - Charges for Services</i>		<i>23,971</i>		<i>20,000</i>		<i>22,345</i>		<i>20,000</i>

TOTAL PARK RESOURCES DEV. FUND	\$	34,712	\$	20,180	\$	23,890	\$	20,500
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Return to TOC

	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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30 SOUTH CENTRAL TEXAS PLANNING GROUP FUND

Investment Earnings

4201 Investment Earnings	\$ 62	\$ 50	\$ 10	\$ 50
<i>Subtotal - Investment Earnings</i>	62	50	10	50

Intergovernmental Revenue

4250 Intergovernmental Revenue	107,984	204,030	128,210	513,389
<i>Subtotal - Intergovernmental Revenue</i>	107,984	204,030	128,210	513,389

TOTAL SCTPG FUND

	\$ 108,046	\$ 204,080	\$ 128,220	\$ 513,439
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31 EDWARDS WATER ACQUISITION/RWRDG FUND

Investment Earnings

4201 Investment Earnings	\$ 170	\$ 100	\$ 820	\$ 1,000
<i>Subtotal - Investment Earnings</i>	170	100	820	1,000

Intergovernmental Revenue

4250 Intergovernmental Revenue	15,374	630,286	655,090	297,609
<i>Subtotal - Intergovernmental Revenue</i>	15,374	630,286	655,090	297,609

Charges for Services

4421 Administrative Fee	1,200	1,100	1,100	1,100
<i>Subtotal - Charges for Services</i>	1,200	1,100	1,100	1,100

TOTAL EDWARDS WATER ACQ. FUND

	\$ 16,744	\$ 631,486	\$ 657,010	\$ 299,709
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32 REGIONAL WATER ALLIANCE FUND

Investment Earnings

4201 Investment Earnings	\$ 24	\$ 10	\$ 45	\$ 30
<i>Subtotal - Investment Earnings</i>	24	10	45	30

Intergovernmental Revenue

4250 Intergovernmental Revenue	4,200	4,200	4,200	4,200
<i>Subtotal - Intergovernmental Revenue</i>	4,200	4,200	4,200	4,200

TOTAL REGIONAL WATER ALLIANCE FUND

	\$ 4,224	\$ 4,210	\$ 4,245	\$ 4,230
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36 GRANTS FUND

Intergovernmental Revenue

4250 Intergovernmental Revenue	\$ 5,469,428	\$ 9,839,986	\$ 2,759,197	\$ 6,526,498
4251 Federal Grant Revenue	-	382,000	-	-
<i>Subtotal - Intergovernmental Revenue</i>	5,469,428	10,221,986	2,759,197	6,526,498

Transfers

4901 Transfers (From General Fund)	78,851	-	-	-
<i>Subtotal - Transfers</i>	78,851	-	-	-

Return to TOC

TOTAL LOCAL GRANTS FUND

	\$ 5,548,279	\$ 10,221,986	\$ 2,759,197	\$ 6,526,498
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	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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51 BEXAR COUNTY SAR IMPROVEMENTS FLOOD TAX FUND

Investment Earnings

4201 Investment Earnings	\$ 7,802	\$ -	\$ 9,006	\$ 5,000
<i>Subtotal - Investment Earnings</i>	<i>7,802</i>	<i>-</i>	<i>9,006</i>	<i>5,000</i>

Intergovernmental Revenue

4250 Intergovernmental Revenue	2,458,005	3,148,494	551,337	10,948,700
<i>Subtotal - Intergovernmental Revenue</i>	<i>2,458,005</i>	<i>3,148,494</i>	<i>551,337</i>	<i>10,948,700</i>

Transfers

4901 Transfers	-	48,120	48,121	-
<i>Subtotal - Transfers</i>	<i>-</i>	<i>48,120</i>	<i>48,121</i>	<i>-</i>

TOTAL BEXAR COUNTY SAR IMPROV FUND	\$ 2,465,807	\$ 3,196,614	\$ 608,464	\$ 10,953,700
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52 BEXAR COUNTY VISITOR TAX FUND

Investment Earnings

4201 Investment Earnings	\$ -	\$ 48,120	\$ -	\$ -
<i>Subtotal - Investment Earnings</i>	<i>-</i>	<i>48,120</i>	<i>-</i>	<i>-</i>

TOTAL BEXAR CO. VISITOR TAX FUND	\$ -	\$ 48,120	\$ -	\$ -
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53 SACIP 1999 CONTRACT FUND

Intergovernmental Revenue

4250 Intergovernmental Revenue	\$ -	\$ 27,817	\$ -	\$ 27,817
<i>Subtotal - Intergovernmental Revenue</i>	<i>-</i>	<i>27,817</i>	<i>-</i>	<i>27,817</i>

TOTAL SACIP 1999 CONTRACT FUND	\$ -	\$ 27,817	\$ -	\$ 27,817
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54 BEXAR COUNTY WESTSIDE CREEK RESTORATION PROJECTS FUND

Investment Earnings

4201 Investment Earnings	\$ 2,217	\$ -	\$ 6,400	\$ -
<i>Subtotal - Investment Earnings</i>	<i>2,217</i>	<i>-</i>	<i>6,400</i>	<i>-</i>

Intergovernmental Revenue

4250 Intergovernmental Revenue	10,169,473	58,526,859	12,570,327	70,210,668
<i>Subtotal - Intergovernmental Revenue</i>	<i>10,169,473</i>	<i>58,526,859</i>	<i>12,570,327</i>	<i>70,210,668</i>

TOTAL BEXAR COUNTY WSC FUND	\$ 10,171,690	\$ 58,526,859	\$ 12,576,727	\$ 70,210,668
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57 OTHER CAPITAL PROJECTS FUND

Intergovernmental Revenue

4250 Intergovernmental Revenue	\$ 100,587	\$ 7,749,139	\$ 28,497	\$ 7,697,185
<i>Subtotal - Intergovernmental Revenue</i>	<i>100,587</i>	<i>7,749,139</i>	<i>28,497</i>	<i>7,697,185</i>

TOTAL OTHER CAPITAL PROJECTS FUND	\$ 100,587	\$ 7,749,139	\$ 28,497	\$ 7,697,185
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Return to TOC

58 DOWNSTREAM CAPITAL PROJECTS FUND

Intergovernmental Revenue

4250 Intergovernmental Revenue	\$ 22,242	\$ 381,471	\$ 4,298	\$ 1,564,487
<i>Subtotal - Intergovernmental Revenue</i>	<i>22,242</i>	<i>381,471</i>	<i>4,298</i>	<i>1,564,487</i>

TOTAL DOWNSTREAM CAP. PROJ. FUND	\$ 22,242	\$ 381,471	\$ 4,298	\$ 1,564,487
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	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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59 BEXAR COUNTY CAPITAL PROJECTS FUND

Investment Earnings

4201 Investment Earnings			\$ (8,780)	\$ -
<i>Subtotal - Investment Earnings</i>	-	-	(8,780)	-

Intergovernmental Revenue

4250 Intergovernmental Revenue	2,082,369	4,803,082	1,430,704	2,900,453
<i>Subtotal - Intergovernmental Revenue</i>	2,082,369	4,803,082	1,430,704	2,900,453

TOTAL BEXAR CO. CAPITAL PROJ. FUND \$ 2,082,369 \$ 4,803,082 \$ 1,421,924 \$ 2,900,453

61 WESTSIDE CREEK CITY OF SAN ANTONIO FUND

Investment Earnings

4201 Investment Earnings	\$ 4,568	\$ -	\$ 4,900	\$ -
<i>Subtotal - Investment Earnings</i>	4,568	-	4,900	-

Intergovernmental Revenue

4250 Intergovernmental Revenue	11,595,020	21,775,506	1,915,932	16,846,175
<i>Subtotal - Intergovernmental Revenue</i>	11,595,020	21,775,506	1,915,932	16,846,175

TOTAL WSC CITY OF SAN ANTONIO FUND \$ 11,599,588 \$ 21,775,506 \$ 1,920,832 \$ 16,846,175

70 SARA WASTEWATER SYSTEM FUND

Investment Earnings

4201 Investment Earnings	\$ 40,411	\$ 30,000	\$ 28,035	\$ 35,000
<i>Subtotal - Investment Earnings</i>	40,411	30,000	28,035	35,000

Intergovernmental Revenue

4250 Intergovernmental Revenue	643,742	579,995	641,815	725,000
<i>Subtotal - Intergovernmental Revenue</i>	643,742	579,995	641,815	725,000

Charges for Services

4414 Equipment Usage Reimbursement	67,132	25,000	-	-
4425 Rentals/Leases	61,701	35,000	40,100	37,600
4431 Sewer Fees	7,381,819	7,920,062	7,898,301	8,800,288
4433 Reuse Water Sales	-	2,000	-	-
4465 Sale of Hay	-	2,000	-	-
4467 Sale of Fixed Assets	-	5,000	-	-
4471 Vehicle Repairs by Utilities	8,768	10,000	5,114	10,000
<i>Subtotal - Charges for Services</i>	7,519,420	7,999,062	7,943,515	8,847,888

Miscellaneous

4511 Miscellaneous	199,828	50,000	130,916	75,000
<i>Subtotal - Miscellaneous</i>	199,828	50,000	130,916	75,000

Reimbursements

Return to TOC

4805-4822-4837 Reimbursement - Utilities	143,541	-	-	-
4818 Reimbursement - General Fund	5,726	-	-	-
4806 Reimbursement - Salatrillo C&I	21,256	-	-	-
4816 Reimbursement -Utilities O&M	197,647	-	-	-
<i>Subtotal - Reimbursements</i>	368,170	-	-	-

Transfers

4901 Transfers	2,130,681	-	-	-
<i>Subtotal - Transfers</i>	2,130,681	-	-	-

TOTAL SARA WASTEWATER SYSTEM FUND \$ 10,902,252 \$ 8,659,057 \$ 8,744,281 \$ 9,682,888

	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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71 SALATRILLO FUND

<u>Investment Earnings</u>				
4201 Investment Earnings	\$ (1,189)	\$ 5,000	\$ 17,112	\$ 24,000
<i>Subtotal - Investment Earnings</i>	<i>(1,189)</i>	<i>5,000</i>	<i>17,112</i>	<i>24,000</i>
<u>Intergovernmental Revenue</u>				
4250 Intergovernmental Revenue	109,584	110,000	565,069	564,353
<i>Subtotal - Intergovernmental Revenue</i>	<i>109,584</i>	<i>110,000</i>	<i>565,069</i>	<i>564,353</i>
<u>Charges for Services</u>				
4431 Sewer Fees	3,082,953	3,038,488	3,052,784	4,017,528
4465 Sale of Hay	-	1,500	-	-
<i>Subtotal - Charges for Services</i>	<i>3,082,953</i>	<i>3,039,988</i>	<i>3,052,784</i>	<i>4,017,528</i>
<u>Reimbursements</u>				
4806 Reimbursements - Utilities	29,231	-	-	-
<i>Subtotal - Reimbursements</i>	<i>29,231</i>	<i>-</i>	<i>-</i>	<i>-</i>
<u>Transfers</u>				
4906 Transfers	573,254	-	54,152	-
<i>Subtotal - Transfers</i>	<i>573,254</i>	<i>-</i>	<i>54,152</i>	<i>-</i>
TOTAL SALATRILLO WHLSLE SVCES FUND	\$ 3,793,833	\$ 3,154,988	\$ 3,689,117	\$ 4,605,881

73 RANDOLPH AFB CONTRACT FUND

<u>Intergovernmental Revenue</u>				
4250 Intergovernmental Revenue	\$ 361,955	\$ 338,760	\$ 365,280	\$ 370,000
<i>Subtotal - Intergovernmental Revenue</i>	<i>361,955</i>	<i>338,760</i>	<i>365,280</i>	<i>370,000</i>
<u>Reimbursements</u>				
Reimbursements	3,192	-	-	-
<i>Subtotal - Reimbursements</i>	<i>3,192</i>	<i>-</i>	<i>-</i>	<i>-</i>
TOTAL RANDOLPH AFB CONTRACT FUND	\$ 365,147	\$ 338,760	\$ 365,280	\$ 370,000

74 SARA WATER SYSTEM FUND

<u>Charges for Services</u>				
4432 Water Sales	\$ 125,420	\$ -	\$ -	\$ -
4435 Sale of Water System	-	-	-	-
4436 Penalty Fee/Late Fee	4,887	-	-	-
4450 Miscellaneous Fees	625	-	-	-
<i>Subtotal - Charges for Services</i>	<i>130,932</i>	<i>-</i>	<i>-</i>	<i>-</i>
<u>Miscellaneous</u>				
4467 Sale of Fixed Assets	450,000	-	-	-
<i>Subtotal - Reimbursements</i>	<i>450,000</i>	<i>-</i>	<i>-</i>	<i>-</i>
<u>Reimbursements</u>				
Reimbursements	118	-	-	-
<i>Subtotal - Reimbursements</i>	<i>118</i>	<i>-</i>	<i>-</i>	<i>-</i>
TOTAL SARA WATER SYSTEM FUND	\$ 581,050	\$ -	\$ -	\$ -

Return to TOC

	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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80 SARA WASTEWATER SERVICES CONSTRUCTION AND IMPROVEMENT FUND

<u>Investment Earnings</u>								
4201 Investment Earnings	\$	9,610	\$	8,000	\$	12,010	\$	15,000
<i>Subtotal - Investment Earnings</i>		<i>9,610</i>		<i>8,000</i>		<i>12,010</i>		<i>15,000</i>
<u>Intergovernmental Revenue</u>								
4250 Intergovernmental Revenue		-		1,118,992		-		1,297,473
<i>Subtotal Intergovernmental Revenue</i>		<i>-</i>		<i>1,118,992</i>		<i>-</i>		<i>1,297,473</i>
<u>Charges for Services</u>								
4491 Impact Fees		1,506,436		2,000,000		450,000		-
4494 Connection Fees		-		-		1,333,800		2,250,000
<i>Subtotal - Charges for Services</i>		<i>1,506,436</i>		<i>2,000,000</i>		<i>1,783,800</i>		<i>2,250,000</i>
<u>Debt Proceeds</u>								
4991 Debt Proceeds		-		9,500,000		-		9,500,000
<i>Subtotal - Debt Proceeds</i>		<i>-</i>		<i>9,500,000</i>		<i>-</i>		<i>9,500,000</i>
<u>Transfers</u>								
4905 Transfers		2,772,321		1,770,000		1,715,848		2,300,000
<i>Subtotal - Transfers</i>		<i>2,772,321</i>		<i>1,770,000</i>		<i>1,715,848</i>		<i>2,300,000</i>
TOTAL SARA WW SVCES C&I FUND		\$ 4,288,367	\$	14,396,992	\$	3,511,658	\$	15,362,473

81 SALATRILLO CONSTRUCTION AND IMPROVEMENTS FUND

<u>Investment Earnings</u>								
4201 Investment Earnings	\$	(7,700)	\$	12,000	\$	7,683	\$	15,000
<i>Subtotal - Investment Earnings</i>		<i>(7,700)</i>		<i>12,000</i>		<i>7,683</i>		<i>15,000</i>
<u>Charges for Services</u>								
4491 Impact Fees		309,150		-		216,000		-
4494 Connection Fees		-		-		63,450		301,050
<i>Subtotal - Charges for Services</i>		<i>309,150</i>		<i>-</i>		<i>279,450</i>		<i>301,050</i>
<u>Transfers</u>								
4905 Transfers		-		650,000		360,000		-
<i>Subtotal - Transfers</i>		<i>-</i>		<i>650,000</i>		<i>360,000</i>		<i>-</i>
TOTAL SALATRILLO C&I FUND		\$ 301,450	\$	662,000	\$	647,133	\$	316,050

82 TEXAS WATER DEVELOPMENT BOARD FUND

<u>Transfers</u>								
4901 Transfer (From General Fund)	\$	391,082	\$	-	\$	-	\$	-
<i>Subtotal - Transfers</i>		<i>391,082</i>		<i>-</i>		<i>-</i>		<i>-</i>
TOTAL CWSRF TWDB FUND		\$ 391,082	\$	-	\$	-	\$	-

Return to TOC

	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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83 RANDOLPH AFB RENEWALS FUND

<u>Investment Earnings</u>				
4201 Investment Earnings	\$ 1,599	\$ 1,460	\$ 2,156	\$ 1,599
<i>Subtotal - Investment Earnings</i>	<i>1,599</i>	<i>1,460</i>	<i>2,156</i>	<i>1,599</i>
<u>Intergovernmental Revenue</u>				
4250 Intergovernmental Revenue	357,300	352,379	357,300	360,000
<i>Subtotal - Intergovernmental Revenue</i>	<i>357,300</i>	<i>352,379</i>	<i>357,300</i>	<i>360,000</i>
<u>Transfers</u>				
4901 Transfers	-	200,000	200,000	-
<i>Subtotal - Transfers</i>	<i>-</i>	<i>200,000</i>	<i>200,000</i>	<i>-</i>
TOTAL RANDOLPH AFB RENEWALS FUND	\$ 358,899	\$ 553,839	\$ 559,456	\$ 361,599

90 INSURANCE FUND

<u>Investment Earnings</u>				
4201 Investment Earnings	\$ 4,611	\$ 10,000	\$ 10,390	\$ 12,000
<i>Subtotal - Investment Earnings</i>	<i>4,611</i>	<i>10,000</i>	<i>10,390</i>	<i>12,000</i>
<u>Miscellaneous</u>				
4511 Miscellaneous	-	24,000	434	-
4514 Health Premiums	2,338,371	2,222,154	2,476,547	3,166,547
4515 Dental Premiums	60,946	95,000	90,000	90,000
4516 Life Premiums	94	-	-	-
4517 COBRA Premiums	73,179	50,000	-	-
4518 Vision Premiums	41,743	50,500	49,514	50,000
4523 Fitness Membership-Wellness	24,500	-	11,374	15,000
<i>Subtotal - Miscellaneous</i>	<i>2,538,833</i>	<i>2,441,654</i>	<i>2,627,869</i>	<i>3,321,547</i>
<u>Transfers</u>				
4901 Transfer (From General Fund)	600,000	690,000	690,000	-
<i>Subtotal - Transfers</i>	<i>600,000</i>	<i>690,000</i>	<i>690,000</i>	<i>-</i>
TOTAL INSURANCE FUND	\$ 3,143,444	\$ 3,141,654	\$ 3,328,259	\$ 3,333,547

TOTAL AVAILABLE REVENUES	\$ 105,299,795	\$ 180,527,358	\$ 79,512,233	\$ 196,069,039
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Return to TOC

San Antonio River Authority Revenues

Overview

The Fiscal Year (FY) 2017/18 Adopted Budget for the San Antonio River Authority (River Authority) includes total available funds of \$241,753,881 across all funds with \$196,069,039 in revenue accounted for in various categories and \$45,684,834 in carry forward fund balances and reserves. Total revenues decrease \$10,880,180 or 5.3 percent in comparison to the FY 2016/17 Amended Budget revenues of \$206,949,219. Described below are all revenues by fund and major category. Additional detail for the various categories of revenue by type and/or fund that contributed to the final budgeted revenues is available throughout the rest of this revenue narrative.

Developing the annual budget is a multiple month process where the River Authority staff performs analysis of the current level of service and activities taking place, identifies strategic opportunities, and makes projections for what is expected to occur in the next fiscal year. Revenues are a key component of this process. Staff evaluates current revenues, trends from prior fiscal years and factors in changes that will impact revenues in the budget year to determine the budgeted revenue levels. The River Authority has three main sources of revenue – property taxes, all of which come to the General Fund; intergovernmental revenue which includes payments from other public entities for work performed by the River Authority, particularly on capital improvement projects; and charges for services which comes mainly from utility wastewater services.

Taxes, Penalties and Interest – All Funds

Given the timing of the fiscal year for the River Authority, ad valorem property tax revenues are developed using historical actuals and trends to project estimates for the current year as well as preliminary values provided by the four counties (Bexar, Wilson, Karnes and Goliad) served by the River Authority. Tax appraisers of the four counties deliver the preliminary taxable value estimates with an understanding that some values may be protested. Analysis for each county is performed on previous year actuals, uncollectable rates, and the impact of proposed property values. The River Authority takes a conservative approach to projecting property tax revenue in instances where dramatic swings in homestead values occur since values are not certified until late July, after the annual budget is adopted by the Board of Directors. Once final values are received and the tax rate is set in September, the property tax revenue in the adopted budget may be adjusted to reflect the actual values and adopted tax rate.

All taxes, penalties and interest are only accounted for in the General Fund. Additional detail on the changes and key factors year over year is presented below under the General Fund heading.

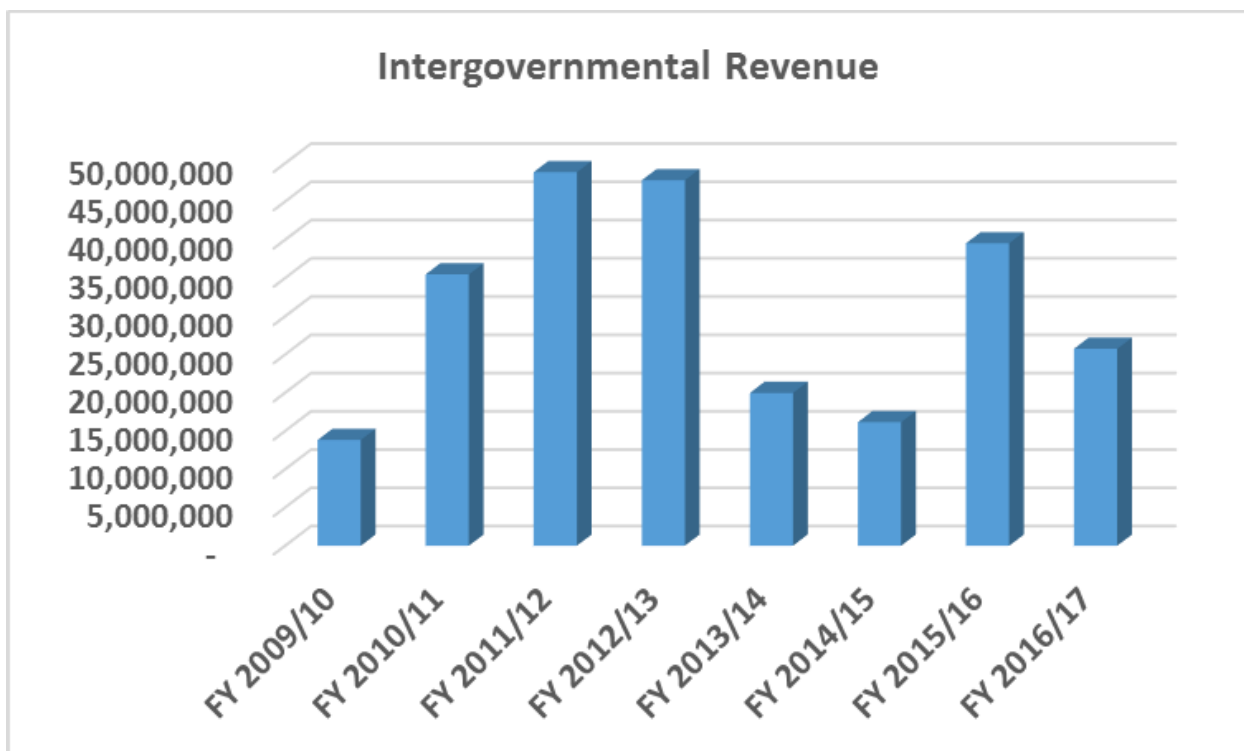
Intergovernmental Revenues – All Funds

The most significant category of revenue for the budget is Intergovernmental Revenues. These revenues come primarily from third party partners to whom the River Authority delivers project management or other services throughout the year. Intergovernmental Revenue consists of monies obtained from other governments and can include grants, shared flood control taxes, loans, and advances. The amount of revenue from these sources is driven by the individual contracts and grant awards. Therefore, during the budget development process, a review of all existing agreements and/or commitments is completed to determine the appropriate revenues to reflect in

the adopted budget. Project budgets are shown (expenditures and revenues) at the full cost of the entire project; however, the annual budget adopts the remaining available funds as the revenue – and expenditure – amounts for the fiscal year.

Of the 31 funds represented in the FY 2017/18 annual budget, 21 funds designate a budget for Intergovernmental Revenues. Across all funds, Intergovernmental Revenue is budgeted at \$130,692,952, up 41 percent from the FY 2016/17 Adopted Budget. Over 65 percent (\$87,056,843) of the total Intergovernmental Revenues are commitments from Bexar County and the City of San Antonio in support of the Westside Creeks projects.

Since Intergovernmental Revenue is dependent on partner funding, with the majority of that related to capital improvement projects, the budgeted revenues from this source can vary widely from year to year. Over the last ten years, the River Authority has managed projects such as the Mission Reach, Museum Reach, and now San Pedro Creek with very sizeable budgets. The completion of one and the start of another project of this size significantly impacts revenues from this source. The following chart shows actual (through FY 2015/16) and estimated (FY 2016/17) Intergovernmental Revenue for the past eight years.



Charges for Services – All Funds

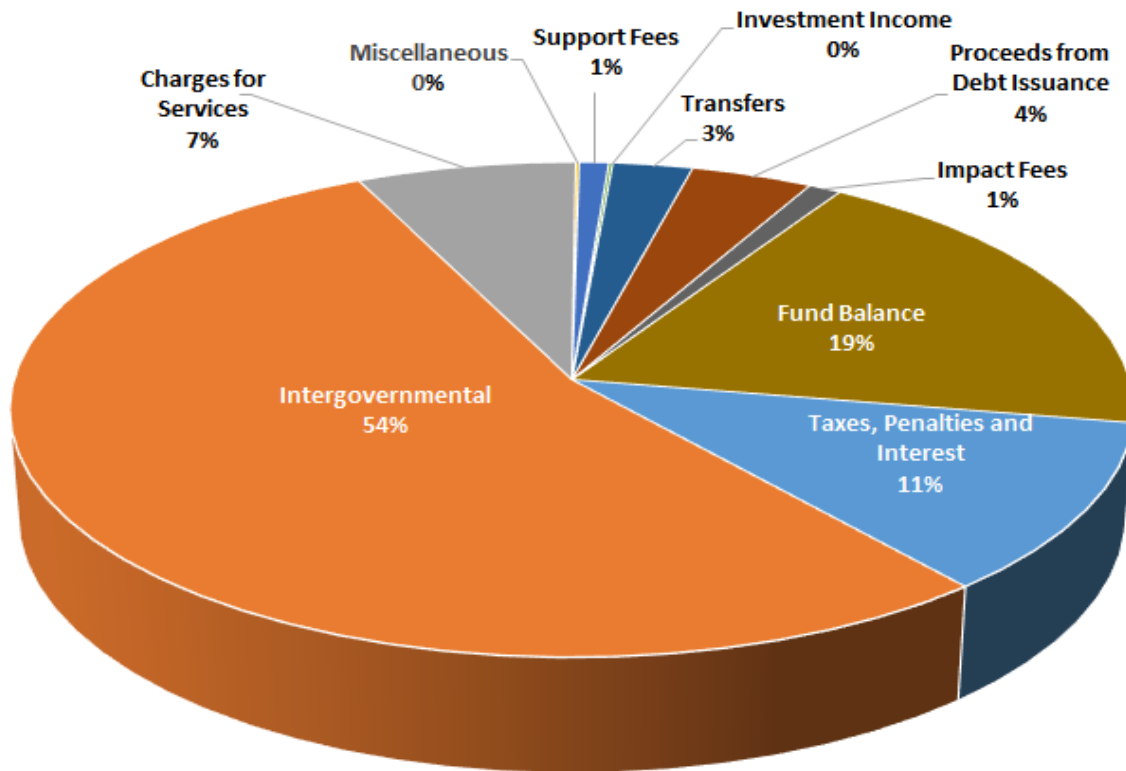
The River Authority generates revenues categorized as Charges for Services made up from wastewater services in the form of sewer fees, fees for laboratory services, and other user fees.

Of the eight funds showing revenues generated from Charge for Services, the San Antonio River Authority and Salatrillo Wastewater Systems, Insurance Fund and the General Fund are the most notable. Described in further detail below, this category increased nearly 20 percent primarily due

to changes in wastewater rates within the utilities enterprise and the increase in the per employee employer contribution to the Insurance Fund. The total across all funds is \$17,136,415 for FY 2017/18.

The following chart shows revenue from all sources including fund balance reserves.

FY 2017/18 Total Available Funds

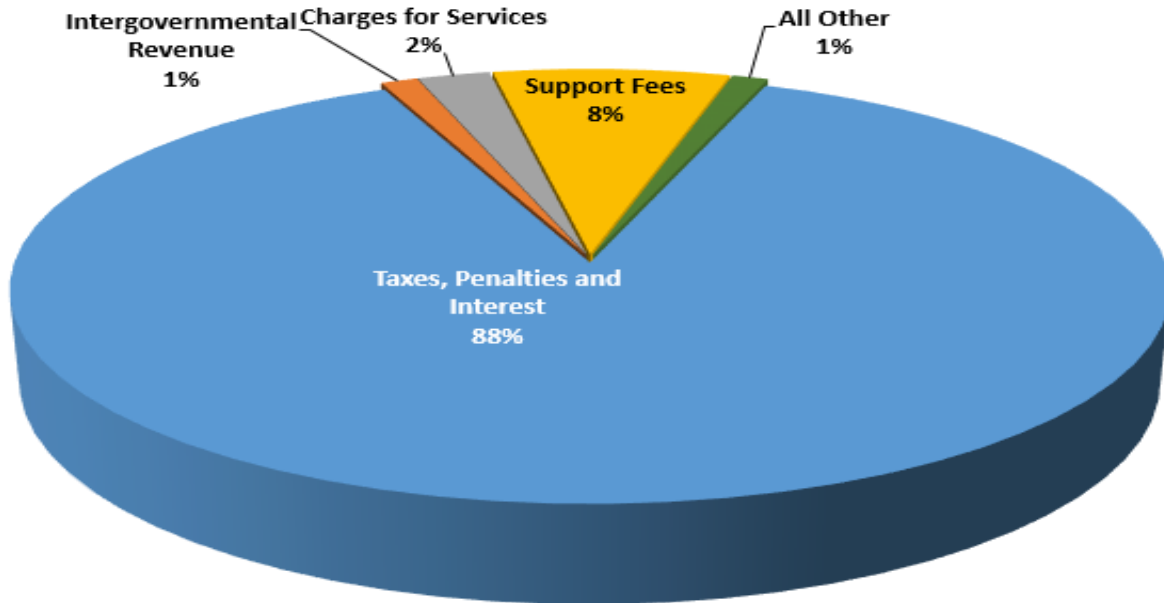


Taxes, Penalties and Interest	\$	27,062,143
Intergovernmental		130,692,952
Charges for Services		17,136,415
Miscellaneous		272,813
Support Fees		2,302,631
Investment Income		309,018
Transfers		6,242,016
Proceeds from Debt Issuance		9,500,000
Impact Fees		2,551,050
Fund Balance		45,684,843
Total Available Funds	\$	241,753,881

General Fund

The Fiscal Year (FY) 2017/18 Adopted Budget for the General Fund includes total revenues of \$30,781,189. This represents a 5 increase in comparison to the FY 2016/17 Amended Budget of \$29,285,215. Of the total revenue, \$27,062,143 or 88 percent comes from property taxes, \$2,302,631 or 7 percent from support fees paid by the utilities for services provided by General Fund staff (Human Resources, Finance, Facilities, Intergovernmental and Community Relations, etc.), and \$705,969 or slightly more than 2 percent from charges for services such as laboratory fees.

FY 2017/18 General Fund Revenues by Category



Taxes, Penalties and Interest	\$ 27,062,143
Intergovernmental Revenue	360,000
Charges for Services	705,969
Support Fees	2,302,631
All Other	350,446
Total Revenue	\$ 30,781,189

Taxes, Penalties and Interest

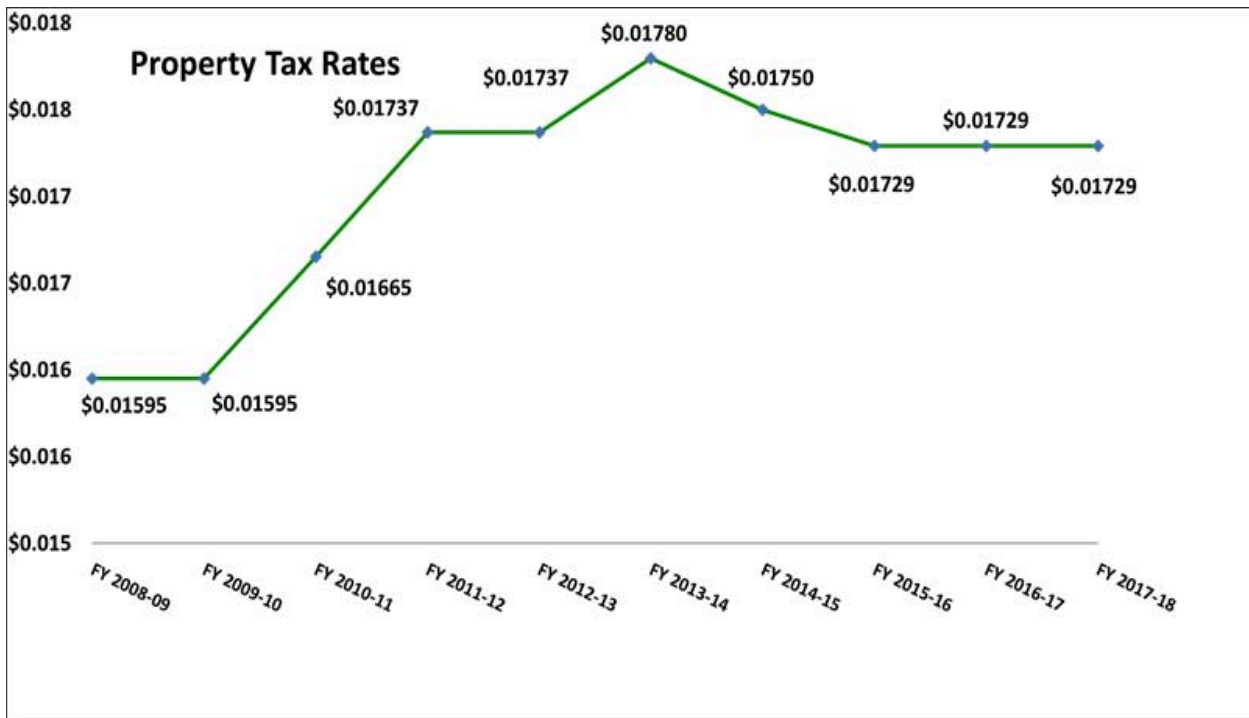
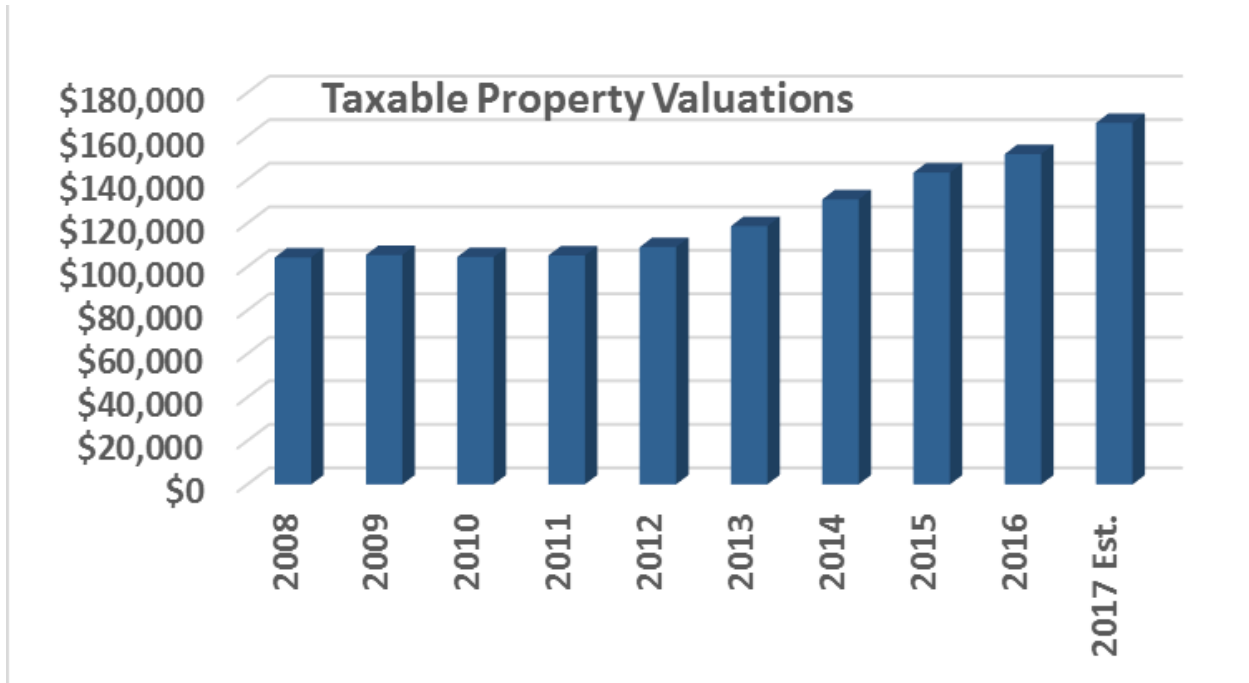
As demonstrated by the graph above, property tax revenue is without question the most significant revenue source into the General Fund which support the day to day operating activities of the River Authority. The FY 2017/18 Adopted Budget includes property tax revenue of \$27,062,143, an increase of \$1,601,191 or 6 percent as compared to the FY 2016/17 Amended Budget. No change in the tax rate is included in the adopted budget. Across the four counties included in the River Authority's district, increases in values in three counties overshadow a small decrease in the fourth leading to the increased revenue projected for the upcoming year.

The San Antonio River Authority (River Authority) Board of Directors adopts the budget in June of every year just prior to the new fiscal year beginning July 1st. Because certified property values are received from the appraisal districts in late July of each year, the adopted budget revenues are based on estimated increases in values. As stated, based on preliminary values provided by each appraisal district in all four counties, property value changes are projected to vary by county with three counties showing an increase in values: Bexar County values, the most impactful as it relates to tax revenue generation, have been estimated by the Bexar Appraisal District to increase between eight and nine percent. The adopted budget includes increased values of five percent for Bexar County (as applied by River Authority staff to take into consideration factors that may not materialize), 8.5 percent in Karnes, 3.5 percent for Wilson County, and a decrease of 5.7 percent for Goliad (the three downstream counties are based on information provided by the respective appraisal district). Karnes County, because of volatile oil prices, projects a mild increase in values after two consecutive years of declining overall property values – driven by mineral values. The growth, especially in Bexar County, has helped maintain the existing tax rate and increase revenues to support the mission and vision of the River Authority.

Bexar County's appraised values in tax year 2016 represented 94 percent of the total taxable values across the River Authority's four county district. Therefore, value changes in this county are critical to the River Authority's overall revenue. From 2012 to 2016, Bexar County values have grown at an approximate rate of 8.3 percent annually with 2017 preliminary estimates reflecting 9 percent. However, with level of growth has come record numbers of protests by property owners. Since the River Authority's budget is set prior to resolution of these protests, the budget uses a more conservative growth level than the preliminary amounts to account for reductions in values from successful protests. In the other three counties, protests are much less of a factor; therefore, the preliminary estimates are used to develop the budget.

Karnes County has had very significant changes in their appraised values since the initiation of fracking operations in that county. In 2010, before that industry's impact on appraised values, the total assessed value in the county was \$587 million. Values hit a high in 2014 of \$10.76 billion, an increase of 1732 percent. The values have fluctuated significantly in Karnes County over the last few years as oil prices change and currently are projected at \$6.5 billion for 2017, before protests. Wilson County is also impacted by the fracking industry but to a lesser extent. Their values are projected to move over \$3 billion in 2017. Goliad County's values have seen slow average annual growth since 2010 and 2017 appears that it will be the second consecutive year of declining values, with estimates coming in under \$1 billion.

The graphs below show the history of total property values across all four counties served by the River Authority as well as the tax rates for the same time period.



Investment Earnings

The River Authority actively manages its cash to maximize investment earnings across all funds. The General Fund represents a significant portion of the overall investment portfolio. For FY 2017/18, the budgeted investment earnings for this fund total \$168,600, a slight increase in comparison to the FY 2016/17 Amended Budget.

- Interest rates are expected to increase in FY 2017/18, but will remain low in comparison to pre-2008 earnings rates.

Intergovernmental Revenue

Intergovernmental Revenue for the General Fund totals \$360,000 and increases slightly as compared to the FY 2016/17 Amended Budget. Sources of revenue for this category include:

- Notes receivable from loans or other commitments for repayment to the River Authority;
- Payments for services the River Authority performs through General Fund staff labor, such as the operation and maintenance of seventeen flood retardant structures for Karnes County.

Charges for Services

The River Authority performs various services for which charges are collected. For FY 2017/18, total budgeted revenue in Charges for Services is reduced to \$705,969 from \$724,283 in the FY 2016/17 Amended Budget. Assumptions used in reducing this source of revenue include:

- 76 percent or \$532,304 of the revenue in this category comes from fees for laboratory services (\$270,000) and water sales (\$270,000) resulting in flat revenues for the major portion of this category;
- Revenues for other services are projected to decrease slightly impacted by smaller projected revenues for equipment usage reimbursement and the sale of fixed assets, as adjusted based on previous actuals.

Support Fees

Support Fees are fees charged to the utility enterprise operations for the use of centralized services provided by General Fund funded staff. The functions that contribute to the calculation of the annual support fee include but are not limited to: Human Resources, Finance, Facilities, Intergovernmental and Community Relations (IGCR), Information Technology, and executive support. The total support fee charge is distributed across all the utility functions including agreements in place with other customers of the utility enterprise. For FY 2017/18, there is a decrease in the support fees in comparison to the FY 2016/17 Amended Budget. The methodology for calculating the utilities' contribution for services is based on cost allocation of the services identified above and depends on the utilities' budgeted expenditures in comparison to General Fund expenditures. The total Support Fee amount for FY 2017/18 is \$2,302,631.

Reimbursement

In the FY 2016/17 budget, a change in methodology occurred which better reflects the activity that occurs related to reimbursements to the General Fund from other partner funds managed by the River Authority. Reimbursements are now recorded as an offset to expense so that revenues across multiple funds are represented appropriately. Therefore, no revenue is budgeted in this category for FY 2017/18.

Utility Funds

Randolph Air Force Base Fund

The Randolph Air Force Base (RAFB) Operating System Fund accounts for activity related to the San Antonio River Authority's responsibilities for the RAFB Wastewater Collection System which provides service to customers of the Randolph Air Force Base installation adjacent to Universal City in Bexar County. The Utilities Department operates and maintains the San Antonio River Authority owned collection system in the Randolph Air Force Base installation as well as completing projects annually that improve the system. Randolph Air Force Base pays the River Authority a monthly fee composed of Operations and Maintenance (O&M) and Renewal and Replacement (R&R) components established in the utility service contract awarded as a result of privatization efforts of the federal government. The O&M portion of the monthly charge accounts for all revenues into this fund. Annual revenues remain fairly constant year over year and are set by contract. For FY 2017/18, the budgeted revenues from RAFB to operate the wastewater system (O&M fund) are projected to be \$370,000 to incorporate the annual economic price adjustment (EPA).

- Changes in revenues for this fund result from either adjustments based on the EPA process outlined by the Defense Logistics Agency (DLA), which would increase the annual payment for services, or the allocation between the O&M and R&R funds.

Salatrillo Operating Fund

The Salatrillo Operating Fund accounts for all activity associated with operating and maintaining the Salatrillo Wastewater Treatment System. This includes wholesale, retail and reuse water services. In FY 2017/18, these three services are all captured within this fund to reflect the full cost of the system and total revenues are budgeted at \$4,605,881 for all wholesale, retail and reuse water services generated by the Salatrillo Wastewater System.

- Charges for Services increase over 32 percent in comparison to the FY 2016/17 Amended Budget to \$4,017,528 in FY 2017/18. The increase in Charges for Services is generated by an increase of 21 percent in the wholesale customer rates, equating to an estimated increase of \$2.36 in the monthly sewer charge, as compared to the previous year. Customer growth accounts for the remaining increase in revenue. Rate adjustments were instituted as part of a proposed multi-year plan to provide funding that supports operations and maintenance and provides funding for the ten year capital improvement plan;
- Intergovernmental Revenues are \$564,353 for FY 2017/18. This is a significant increase as compared to the previous year Amended Budget of \$110,000. Revenue received from Alamo Community Colleges and Universal City to service debt obligations are now being accounted for in this fund;
- Investment Earnings of \$24,000 make up the remaining revenue for FY 2017/18.

San Antonio River Authority Wastewater Systems Operating Fund

The San Antonio River Authority (SARA) Wastewater Systems Operating Fund accounts for activity associated with the Martinez wastewater system. This system has six plants as well as a transportation system, all of which are operated and maintained by Utility Department staff. These systems primarily serve residents and the business community located within portions of eastern/northeast Bexar County.

For FY 2017/18, revenues for the SARA Wastewater System, to include revenue generated from the various operating agreements, is budgeted at \$9,682,888.

- Charges for Services increase over 10 percent to \$8,847,888 in FY 2017/18. The increase in Charges for Services is generated by an increase of 10.5 percent in customer rates, equating to an estimated increase of \$4.03 in the monthly sewer charge, as compared to the previous year. Rate adjustments were instituted as part of a proposed multi-year plan to provide funding that supports operations and maintenance as well as providing funding for the ten year capital improvement plan, to include the construction of the Martinez IV Wastewater Treatment Plant;
- Intergovernmental Revenue rose slightly to \$725,000 for FY 2017/18 (including the contractual services revenue described above) based on a trend of an increase in requests for support from other governmental agencies for which the River Authority provides services through contracts.
- Investment Earnings of \$35,000 and Miscellaneous Income of \$75,000 (includes insurance proceeds) make up the remaining revenue for FY 2017/18.

Special Revenue Funds

Edwards Water Acquisition/RWRDG Fund

The Regional Water Resource Development Group (RWRDG) works to collectively purchase Edwards Aquifer water for the area. All revenues comes from water lease payments from entities that are using the water rights as well as from the Edwards Aquifer Authority. These revenues are used to cover the costs associated with the administration of this water rights program. In FY 2017/18, revenues from payments for water rights purchase agreements on behalf of RWRDG members is captured as budgeted revenue. All revenues for this fund total \$299,709 and decrease significantly in comparison to FY 2016/17 because of expected lower activity in water purchases.

- Water lease revenue from RWRDG members is relatively flat at \$278,432;
- Payments from RWRDG members classified as water purchases are estimated to decline significant to \$15,000;
- Other miscellaneous revenue and fees equal \$6,277

Grants Fund

The San Antonio River Authority (River Authority) continually looks for grant opportunities that can provide funding for needed programs and projects that help further the River Authority's mission. The River Authority has received local, state and federal grant funding from various sources including Federal Emergency Management Agency (FEMA), the National Resource Conservation Service, the National Park Service, Texas Department of Transportation (TxDOT), the Clean Rivers Program (Texas Commission on Environmental Quality), Bexar County, the San Antonio Housing Authority, VIA Metropolitan Transportation and other agencies. This year's annual budget figure is significantly lower than the previous year due to the completion of a significant amount of work awarded in the previous year, mainly for dam rehabilitation. For FY 2017/18, the Grants Fund revenues are budgeted at \$6,526,498 for 18 identified grant funded projects.

Medina Dam Fund

The San Antonio River Authority (River Authority) began the Median Dam Improvement Project

in 2010, providing management and construction administration services for the project on behalf of Bexar-Medina-Atascosa Counties Water Control and Improvement District No.1, the Texas Water Development Board and Bexar County. The improvements were completed in 2012. This fund remains active due to pending litigation related to this project. All revenue for this fund comes in as Intergovernmental Revenue as a result of incurred litigation expense by the River Authority. For FY 2017/18, revenues into this fund are projected to be \$75,000.

Park Resources Development Fund

The Park Resources Development Fund accounts for revenues received from the sale of land and revenues from leases, license agreements and easements, unless otherwise dedicated to other funds. The funds can only be used for land acquisition and/or the development of any project included in the San Antonio River Authority's River Basin Plan for Nature Based Park Resources or subsequent regional parks and recreation plan. There has been a steady decline in revenues for this fund as a result of a reduction in leasing and licensing activity, often for pipeline crossings of the creeks and river. For FY 2017/18, revenues are projected at \$20,500.

Regional Water Alliance Fund

The Regional Water Alliance Fund is used to promote and facilitate the sharing of ideas, knowledge, experience and resources of twenty-one water purveyors and regional water entities that have joined together to form the Regional Water Alliance. Revenue comes from annual membership dues paid by the respective members. Annual revenues are projected to remain at a constant level of \$4,230 for FY 2017/18.

San Antonio Construction and Improvements Project Land Sales Fund

The San Antonio River Authority (River Authority) entered into an amendatory contract with Bexar County in 1999 to work in partnership to complete needed flood control capital improvement projects. Through these projects, the River Authority receives funds related to land use. In anticipation of the continuing existing license and rental agreements, revenues are expected to be flat in the coming year. For FY 2017/18 revenues are budgeted at \$55,940.

San Antonio River Authority Public Facilities Corporation Fund

The San Antonio River Authority (River Authority) Public Facilities Corporation is a nonprofit corporation that acts on behalf of the River Authority. The Public Facilities Corporation has statutory authority beyond the scope of the River Authority itself. The Public Facilities Corporation worked to issue debt to fund the construction of a new Watershed and Park Operation facility – the Mission Reach Operations Center. The Public Facilities Corporation funded and owns the facility and the River Authority pays an annual lease for use of the building. Revenues to the Public Facilities Corporation for the lease payments come in the form of a transfer from the River Authority's General Fund operating budget. For FY 2017/18, the budgeted revenue is \$182,283, an amount equal to the annual debt service requirement.

San Antonio River Authority Industrial Development Authority Fund

The San Antonio River Industrial Development Authority is a separate organization with its own corporate board. The organization works in support of the San Antonio River Authority. It's only expected revenue for FY 2017/18 is \$100 in investment income.

South Texas Regional Water Planning Group Fund

The South Texas Regional Water Planning Group Fund is managed by the San Antonio River Authority on behalf of participants in the South Central Texas Regional Water Planning Group (Region L) and Texas Water Development Board (per Senate Bill 1 (1997)). Revenues are received from the Texas Water Development Board and the participants in Region L. Funds are used for consulting services and general administrative costs associated with developing the five year water plan. For FY 2017/18, revenues to support this program are budgeted at \$513,389, an increase from FY 2016/17 Amended Budget of \$204,030.

- The increase of in the upcoming year is related to the proposed amendment to the agreement authorizing phase II work on the updated plan amounting to over \$300,000.

Texas Water Development Board Fund

The Texas Water Development Board (TWDB) Fund accounts for projects that are funded through a loan received by the San Antonio River Authority (River Authority) from the TWDB. The River Authority draws payments from escrowed funds as work is completed on authorized projects. For FY 2017/18, the River Authority reflects no new revenues received. The total amount of the TWDB loan have been withdrawn.

Capital Project Funds

San Antonio River Authority Projects Fund

The San Antonio River Authority (River Authority) conducts studies and completes projects that further the mission of the organization. The main source of funding for these studies and projects is the River Authority's General Fund. For FY 2017/18, 50 projects and studies are included in this fund and fall into five categories – Natural Resource Protection, Nature Based Parks, Sustainable Watersheds Implementation, Watershed Modeling, Studies and Planning and Watershed Safety and Response. This fund also includes the Unrestricted Reserve established by the Board of Directors in the adopted revised fund balance policy. This reserve can be used for any purpose including acquisition of facilities, water, water rights or other activities approved by the Board. \$3,145,832 in revenue transferred from the General Fund is budgeted for FY 2017/18 for projects and additional reserves.

- Funding for River Authority authorized projects is \$2,917,744. The funding level for projects (revenue into this fund) depends on available resources in the General Fund and the projects that are identified that will further the River Authority's vision and mission;
- New revenues into the Unrestricted Reserve equal \$228,088, comprised of repayments and other notes payable assigned to the Unrestricted Reserve.

Other Capital Projects Fund

The San Antonio River Authority (River Authority) maintains a separate capital fund that serves to segregate unique and non-recurring capital project revenues for which a partner fund does not exist. For FY 2017/18 this fund only contains two projects which generate revenue in the budget. The River Authority has budgeted \$7,697,185 in revenue for next fiscal year.

- \$81,207 to continue project efforts per an agreement with the Brooks Development Authority at Brooks City Base;
- \$7,615,978 in reimbursements of utilities relocation costs, performed by various providers, related to the San Pedro Creek project.

San Antonio River Authority Capital Projects Funds – Partner Funded

The San Antonio River Authority (River Authority) has various funding partners that help contribute to projects and other initiatives included in the River Authority’s annual budget. Two of the larger funding partners for the River Authority are Bexar County and the City of San Antonio. The other three counties served by the River Authority – Karnes, Wilson and Goliad (Downstream Counties) – also make some contributions for projects in these areas. Eight funds maintain and account for Bexar County and City of San Antonio revenues. For FY 2017/18, revenues budgeted for Bexar County and City of San Antonio operating funds total to \$107,570,319. The downstream counties will be budgeted at \$1,564,487 for one active project.

The funds that are used to account for the Intergovernmental Revenue from SARA partners for capital improvement projects are listed below.

Bexar County Funds - \$84,916,547

- Bexar County Capital Improvements Projects Fund - \$851,726
- Bexar County Capital Projects Fund - \$2,900,453
- Bexar County San Antonio River Improvements Flood Tax Fund - \$10,953,700
- Bexar County Westside Creeks Restoration Projects Fund - \$70,210,668

City of San Antonio Funds - \$22,653,772

- City of San Antonio Capital Improvements Projects 1999 Fund - \$27,817
- City of San Antonio Capital Improvements Projects Fund - \$5,779,780
- City of San Antonio Westside Creeks Restoration Projects Fund - \$16,846,175

Downstream Capital Improvements Projects Fund - \$1,564,487

Utility Funded Capital Improvement Project Funds

The San Antonio River Authority (River Authority) maintains three capital funds (shown below) that account for capital improvement projects that support the plants operated under the utilities enterprise. Revenues generated through these funds typically come from transfers from the corresponding utility operating fund, by way of rates charged for services, or by connection fees paid to access the wastewater system. Funding can also come from debt issuances. The exception to this is the Randolph Air Force Base Renewal and Replacement Fund which is funded primarily by monthly payments from the federal government defined by the operating agreement. These revenues held in construction and improvement funds support any and all construction, replacement or renewal of plant resources across utility enterprises that the River Authority operates. Below are the highlights of key revenues to each of these funds:

San Antonio River Authority (SARA) Wastewater Construction Fund - \$15,362,473

- Connection Fees projected at \$2,250,000 that support renewal and development of plant capacity;
- Transfers from the SARA Wastewater operating fund of \$2,300,000 to reserves to support future capital projects;
- Proceeds from a debt issuance of \$9,500,000 to fund the design and construction of Martinez IV Wastewater Treatment Plant;

- Intergovernmental Revenue \$1,297,473 provided by TxDOT supporting a sewer line relocation project;
- Investment earnings of \$15,000

Salatrillo Construction Fund - \$316,050

- Connection Fees projected at \$301,500 that support renewal and development of plant capacity;
- For FY 2017/18, no transfer from the Salatrillo system's operating fund is scheduled to support future capital projects. The current charges for services will not generate funding for this transfer.

Randolph Air Force Base (RAFB) Renewal and Replacements (R&R) Fund - \$360,000

- Intergovernmental Revenue from the federal government is budgeted as \$360,000 for FY 2017/18

Other Funds

Debt Service Fund

The San Antonio River Authority (River Authority) issues debt to fund needed capital improvement projects including flood control structures and wastewater treatment plant and collection system improvements. In addition, the San Antonio River Authority Public Facilities Corporation issued debt for the construction of a maintenance facility for the Watershed and Park Operations staff. The River Authority has also issued debt on behalf of partner agencies to fund improvements to their wastewater and reuse systems as well as flood control improvements that benefit the San Antonio watershed. For FY 2017/18, revenues in the Debt Service Fund are budgeted at \$3,599,890. The Debt Service Fund accounts for all non-utility debt payments.

- Bexar County, through the flood control tax, will contribute \$2,975,406 in revenue to service debt issued by the River Authority.
- The remaining revenue comes from a transfer from the River Authority's General Fund (\$596,184) and investment income (\$28,300).

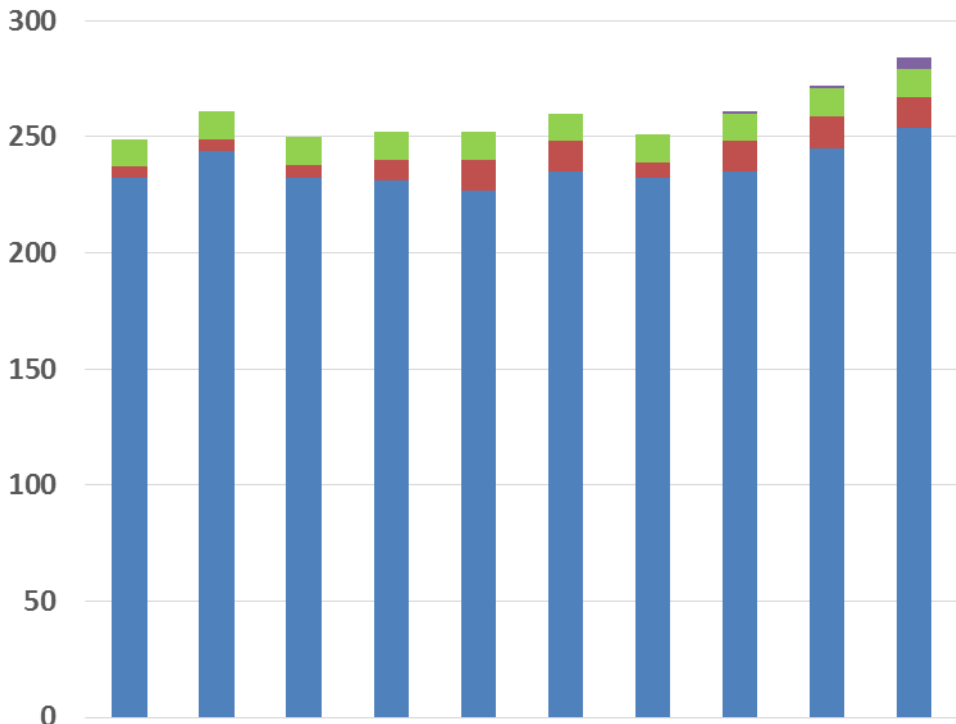
Insurance Fund

The San Antonio River Authority (River Authority) provides medical, dental, vision and other cafeteria plan benefits to its employees. The medical, dental and vision programs are managed through a self-insurance program.

The Insurance Fund has two primary sources of revenue for FY 2017/18. Premiums paid by the River Authority, as an organization contribution, as well as premium payments from employees support the annual operation of this fund. For FY 2017/18, the total budgeted revenues for the Insurance Fund are \$3,333,547.

- Premium payments are budgeted at \$3,306,547 for FY 2017/18. The premium revenue increases significantly in FY 2017/18 as the River Authority's employer contribution shifts from a one-time transfer model (\$690,000 in FY 2016/17) to per employee premiums;
- Miscellaneous revenue (\$15,000) and interest earnings (\$12,000) account for the remainder of the budgeted revenue.

Authorized Positions History



- Limited Term
- Elected
- Part Time
- Full Time

Authorized Positions

FY 2015/16	FY 2016/17	FY 2017/18
Actual	Estimate	Budget

General Fund

Board of Directors (elected officials)	12	12	12
Organizational Support	10	11	13
Facilities	6.5	6.0	6.5
Finance	14	14	14
Human Resources	6	6	6
Information Technology and GIS	12	14	18
Intergovernmental and Community Relations	15	15	15
Environmental Sciences	36	38	38
Real Estate	5	5	5
Watershed Engineering	28	27	30
Watershed and Park Operations	64	71	75
<i>Total General Fund</i>	<i>208.5</i>	<i>219.0</i>	<i>232.5</i>

<i>Utilities</i>	52.5	53.0	51.5
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<i>Total Positions</i>	<i>261.0</i>	<i>272.0</i>	<i>284.0</i>
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Full Time	235	245	254
Limited Term	1	1	5
Part Time	13	14	13
Elected Officials	12	12	12
<i>Total Positions</i>	<i>261.0</i>	<i>272.0</i>	<i>284.0</i>

FY 2017/18 Budget Process

Policy and Management Objectives:

The annual adopted budget serves as a *financial tool* as well as serving other policy and management objectives as follows:

- **Policy Document** which outlines the overall policy direction and priorities of the San Antonio River Authority (River Authority)
- **Work Plan** for the River Authority's departments for the fiscal year that supports the annual strategic plan
- **Communication Tool** internally and externally
- **Planning Process** which looks ahead several years to develop strategies to address future management and financial issues and challenges

The graphic below shows the River Authority's planning, forecasting and budget development process as well as the year-long activities that manage and report on the success of the annual budget and program. Each step is described following the graphic.



Strategic Planning Process:

Under the policy and fiscal guidance of the Board of Directors, the River Authority's executive and management team begin the annual budget process with a review and update of the River Authority's Strategic Plan. That process starts by reflecting on past years' results and defining strategic opportunities, challenges, and needs within the River Authority's district in the upcoming years. The process culminates in the development of a Strategic Plan for the fiscal year. The Strategic Plan is presented, discussed and approved by the Board of Directors. The Strategic Plan serves as the foundation for the development of the annual budget and work plan. It includes the River Authority's vision and mission statements, core values, agency goals, annual objectives, strategic opportunities and action items. These objectives, opportunities and action items are reflected throughout the budget development process and budget documents.

Financial Planning and Management Process:

The River Authority's comprehensive Financial Planning and Management Process implements the strategic plan and includes the following activities:

- The River Authority staff prepares and submits a comprehensive ***annual operating budget and work plan that includes capital improvement projects*** in accordance with the River Authority's strategic plan and the Board's policy direction. Available funding is allocated to provide the resources needed to accomplish the plan.
- Staff prepares/updates a ten year capital improvement plan for the wastewater utilities as well as a ***five year forecast*** for the General Fund to provide the Board with projections of the River Authority's financial position during this period. The forecast is based on a set of assumptions. If the assumptions change, the forecast will change.
- Departments are held accountable for management and implementation of their budgets and work plans. Finance staff also ***monitors the budget*** to insure that functions and activities stay within the budget appropriations. Staff also reports quarterly to the Board of Directors on the status of the budget versus expenditures as well as on the strategic plan action items' progress. During the year, if priorities change or new opportunities arise, the budget is amended to reflect these changes.
- At the end of each fiscal year, an outside audit is completed and the ***comprehensive annual financial report (CAFR)*** is prepared and presented

Budget Amendment Process:

The annual budget as adopted by the Board of Directors controls expenditures by fund and fiscal year for the General Fund, Utility Operating Funds, most Special Revenue Funds, Debt Service Fund, and Insurance Fund. Some Special Revenue Funds are controlled by project and project life, not fiscal year, and are described below. The Board of Directors must approve any budget adjustment that increases the total appropriation in a Fund for all Funds listed above, including those controlled by project and project life. The Board of Directors must also approve any transfer from any reserve account for all Funds as well as allocation of budget to a project not approved in the adopted budget.

The Board of Directors has granted limited flexibility to River Authority staff to move budget appropriations within Funds to respond to changing project implementation schedules and expenditure levels. Through this process, funds can be moved between *approved* projects, programs and activities to ensure that limited annual funding resources continue to advance

efficiently and effectively the initiatives of the River Authority. Under this authority, the General Manager must approve any transfer of funds between departments and/or approved projects within a Fund. The Director of Support Services approves transfers within a department budget and/or approved projects that would move funds between the following categories: Personnel Expenditures, Operating Expenditures, Capital Expenditures, Transfers, Debt Service and Contingency.

The adopted budget is allocated into individual line items in each department and those budget line item allocations are part of the annual adopted budget. Departments have flexibility in expensing these funds within each of the first five categories listed above but not allocations identified as contingency. As long as the total appropriation for a category of expense (e.g. personnel expenses) is not exceeded, one or more line items within the category (e.g. health insurance) may exceed its budget allocation.

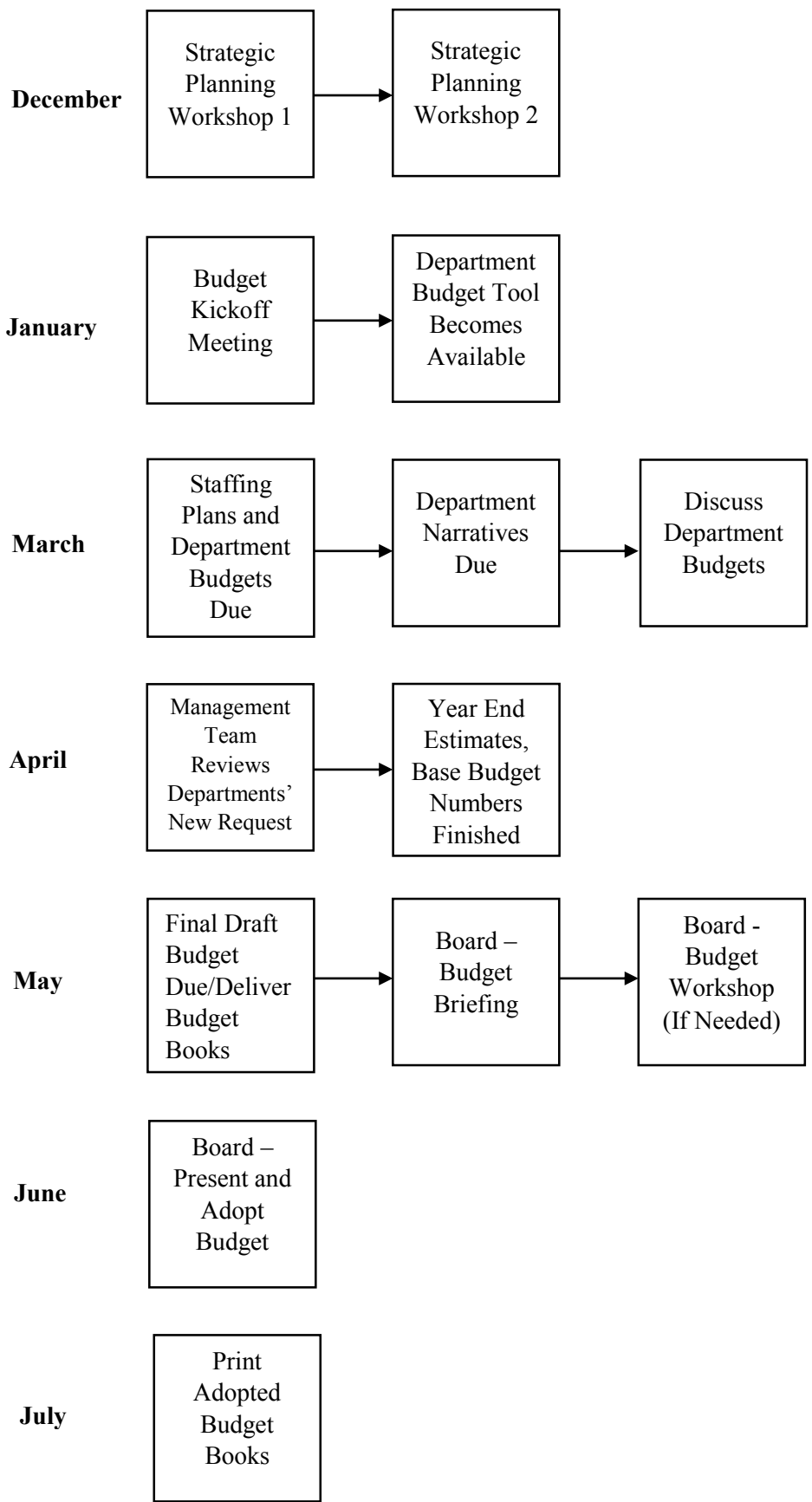
SPECIAL REVENUE FUNDS' EXCEPTIONS: In the Grants Fund, Park Resources Development Fund, Texas Water Development Board Fund, the Other Revenues Fund, and the San Antonio Capital Improvements Project Land Sales Fund, appropriations are controlled at the project level and project life, not by fiscal year. As the Board accepts grants, as donations are received from outside sources, and as projects are approved, those proceeds are appropriated and available to departments to expend for identified River Authority purposes and needs. Project funding can be moved from one approved project to another during the fiscal year at the General Manager or authorized designee's discretion. However, funding for a project not approved by the Board of Directors in the adopted budget must be approved by the Board of Directors.

CAPITAL PROJECT FUNDS

Capital project and other project funds are controlled at the project level. Expenditures within the individual projects may span fiscal years. However, budgetary control is not exercised by fiscal year; it is by the total project cost and total project expenditures. Project funding can be moved from one approved project to another during the fiscal year at the General Manager or authorized designee's discretion. However, funding for a project not approved by the Board of Directors in the Adopted Budget must be approved by the Board of Directors.

General Calendar:

The following is a general calendar for the budget development process.



**Strategic Planning, Departments and Projects Budget Coordination Calendar FY 2017/18
(Development of FY 2017/18 Budget)**

JULY 2016						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST 2016						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

SEPTEMBER 2016						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
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18	19	20	21	22	23	24
25	26	27	28	29	30	

OCTOBER 2016						
Su	Mo	Tu	We	Th	Fr	Sa
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23	24	25	26	27	28	29
30	31					

NOVEMBER 2016						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
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13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

DECEMBER 2016						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

JANUARY 2017						
Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

FEBRUARY 2017						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

MARCH 2017						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

APRIL 2017						
Su	Mo	Tu	We	Th	Fr	Sa
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9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

MAY 2017						
Su	Mo	Tu	We	Th	Fr	Sa
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7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

JUNE 2017						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Board/Committee
 Department Budgets
 Work and/or School Holidays

Board Briefings/Actions

8/8: Fiscal & Ops. - Q4 SP Report
8/10: Comm. - Q4 SP Report
11/7: Fiscal & Ops. - Q1 SP Report
11/9: Comm. - Q1 SP Report
1/9: No Fiscal
1/11: Comm. & Exec. - SP FY 17 Briefing
1/18: Board - SP (1st pass) & Budget Briefing
2/6: Fiscal & Ops. - Q2 SP Report
2/8: Comm. & Exec - Q2 briefing; FY18 SP (board edits)
4/10: Fiscal - Budget Update
5/3: Board - Deliver DRAFT Budget Books
5/8: Fiscal - Budget Briefing; FY17 SP Q3 Report
5/10: Comm. - SP FY17 Q3 Report
5/17: Board - Budget Briefing
6/5: Board - Budget Workshop <i>(If Needed)</i>
6/21: Board - Present and Adopt FY18 Budget

Deliver Final Budget Books by mid-July

Strategic Planning

12/09: SP Workshop 1 (MROC)
12/16: SP Workshop 2 (MROC)

Department Budgets

1/24: Budget Kickoff Meeting (January Manager's Meeting)
1/24 - 2/24: Dept. Budget Tool Available
2/24: Staff Plans (HR) & Department Budgets Due
3/6 - 3/10: Discuss Department Budgets (Mgr. & Dir.)
3/24: Department Narratives and Performance Measures Due
4/3: Executive Team Budget Brief
4/7: Year End Estimate, Base Budget #s Finished (review 2/24 est.)
4/17: Mgmt Team Review
5/3: Final Draft Budget Due / Deliver Budget Bks

Project Budgets

2/1 - 2/22: Enter/Submit Prop. Projects in Clarity
2/1 - 2/24: Project Budget Tool - Available
3/10: Project Budget Tools Due
3/20 & 3/21: Project Reviews w/ PM, liaisons (x3)
3/31: PLs/Managers Review and Rank Projects
4/5: Distribute Rankings to Exec/Managers/PLs
4/17: Mgmt Team Review Project New Requests

San Antonio River Authority
 General Fund
 Fiscal Year Ending June 30, 2018

Fund: 01

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Operating Reserve	\$ 17,556,403	\$ 10,134,809	\$ 11,049,255	\$ 10,376,726
Total Beginning Balance	\$ 17,556,403	\$ 10,134,809	\$ 11,049,255	\$ 10,376,726
Revenue				
Taxes, Penalties and Interest	\$ 24,431,296	\$ 25,460,952	\$ 25,767,810	\$ 27,062,143
Intergovernmental Revenue	305,516	348,142	325,650	360,000
Charges for Services	707,041	724,283	657,769	705,969
Miscellaneous	574,561	187,846	97,506	181,846
Support Fees	2,301,631	2,402,210	2,402,210	2,302,631
Investment Income	153,872	161,782	153,269	168,600
Reimbursements	1,869,872	-	-	-
Operating Transfers	111,057	-	-	-
Total Revenue	\$ 30,454,846	\$ 29,285,215	\$ 29,404,214	\$ 30,781,189
TOTAL AVAILABLE FUNDS	\$ 48,011,249	\$ 39,420,024	\$ 40,453,469	\$ 41,157,915
APPROPRIATIONS				
Personnel Expenditures	\$ 15,005,217	\$ 15,981,204	\$ 15,805,820	\$ 17,965,651
Operating Expenditures	9,480,748	11,819,505	9,633,453	12,165,164
Capital Expenditures	194,874	910,090	804,142	1,104,897
Transfers	-	-	-	-
Insurance, Debt Service and Grants	2,095,131	1,286,184	1,286,184	596,184
Project Fund - Projects	4,600,325	4,064,056	4,064,056	2,917,744
Project Fund - Unrestricted Reserve	5,585,700	228,088	228,088	228,088
Reimbursements		(2,176,753)	(1,745,000)	(1,826,745)
TOTAL OPERATING APPROPRIATIONS	\$ 36,961,994	\$ 32,112,374	\$ 30,076,743	\$ 33,150,983
Operating Reserve	\$ 11,049,255	\$ 7,307,650	\$ 10,376,726	\$ 8,006,932
TOTAL APPROPRIATIONS	\$ 48,011,249	\$ 39,420,024	\$ 40,453,469	\$ 41,157,915

	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
<u>General Government</u>				
Board of Directors	\$ 254,108	\$ 96,024	\$ 81,453	\$ 465,942
Organizational Support	3,288,678	3,983,701	3,196,965	4,505,122
Facilities	1,131,407	1,465,405	1,391,292	1,663,161
Finance	1,271,430	1,456,253	1,320,022	1,406,685
Human Resources	423,255	444,946	418,518	459,206
Information Technology	1,939,560	2,895,955	2,761,932	3,165,315
Intergovernmental and Community Relations	2,217,571	2,350,085	2,337,123	2,283,791
Total General Government	\$ 10,526,008	\$ 12,692,369	\$ 11,507,304	\$ 13,949,222
<u>Program Support and Services</u>				
Environmental Sciences	\$ 3,360,850	\$ 3,904,121	\$ 3,597,444	\$ 4,105,115
Real Estate	469,468	495,569	500,992	515,539
Watershed Engineering	3,762,219	4,052,637	3,441,862	4,470,266
Watershed and Park Operations	6,562,294	7,566,103	7,195,813	8,195,570
Total Program Support and Services	\$ 14,154,830	\$ 16,018,430	\$ 14,736,110	\$ 17,286,490
Operating Transfers	\$ 12,281,156	\$ 5,578,328	\$ 5,578,328	\$ 3,742,016
Reimbursements		(2,176,753)	(1,745,000)	(1,826,745)
TOTAL GENERAL FUND	\$ 36,961,994	\$ 32,112,374	\$ 30,076,743	\$ 33,150,983

Operating Reserve

Department Description

In April 2015, the San Antonio River Authority Board of Directors adopted a revised fund balance policy that changed the approach to managing the General Fund reserves. Through FY 2014/15, the General Fund reserves were classified in six different categories – Non-spendable (notes receivable, inventory and prepaids), Committed (for water rights), Assigned (for Texas Water Development Board grant), Unassigned Reserve account (for facilities and other needs identified by the Board), Unassigned Operating Reserve Account (for unexpected or emergency situations) and the Unassigned Undistributed Account (for any funds not allocated to one of the other five categories). Beginning with FY 2015/16, the General Fund has one fund balance shown – Operating Reserve. This reserve, by policy, targets three months of operating expenditures which includes personnel, supplies, contracted services and capital expenditures. It does not include project related expenditures or transfers.

The revised fund balance policy also created an Unrestricted Reserve in the San Antonio River Authority Projects Fund (shown in the Capital Funds section of this document) that accounts for project related costs where the funding comes from the General Fund.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Operating Reserve	\$11,049,255	\$10,376,726	\$8,006,932
<i>Total Appropriations</i>	<i>\$11,049,255</i>	<i>\$10,376,726</i>	<i>\$8,006,932</i>

Program Justification and Fiscal Analysis

The FY 2017/18 Budget includes an Operating Reserve of \$8,006,932 which meets the target requirement of equaling at least three months of recurring operating expenditures. When combined with the Unrestricted Reserve established in the San Antonio River Authority Project Fund, the available fund balance reserves total \$14,109,014.

Board of Directors

Vision and Mission

Vision: Inspiring actions for healthy creeks and rivers

Mission: Protect and enhance our creeks and rivers through service, leadership and expertise

Department Description

The governance and control of the San Antonio River Authority are vested in a twelve-member Board of Directors, six from Bexar County and two each from Wilson, Karnes and Goliad counties. Two of the Bexar County directors are elected at large and the other four each represent a portion of the county. Members are elected on a non-partisan basis to serve for six-year terms. The terms of office for individual members are staggered to provide continuity.

The Board of Directors, as the governing body for the River Authority, provides policy and fiduciary direction for the organization. The Board supervises the actions of the General Manager to ensure that the statutory requirements of the organization are met and the mission, goals and objectives are effectively achieved for the citizens of the basin. The Board has established four committees that meet regularly to consider the budgetary and service-related business of the organization.

The Board provides direction on the River Authority's legislative agenda, strategic plan, and business opportunities. The Board also reviews and approves the annual budget, annual financial statement and monitors revenues and expenditures throughout the year. In addition, the Board monitors performance results on many key initiatives of the River Authority. River Authority actions and results for quarterly and annual strategic plan objectives are measured in quarterly actions which are tracked and reported to the Board committees. Overall attainment of objectives, key performance indicators, and the River Authority's River Health Index are reported annually to the full Board.

Support staff for the Board must ensure that Board and committee public meeting notices are prepared in accordance with the requirements of the Texas Open Meetings Act and that records are managed in accordance with the Texas Open Records and Public Information Act requirements. In addition, agenda support materials and meeting minutes must be prepared in sufficient detail to support accountability and transparency in the business of the Board. Agenda materials are prepared and delivered to the Board in a timely manner to ensure thorough review by the Board. Staff ensures that public meeting notices and minutes are properly posted and processed with the Secretary of State, including use of the River Authority website to ensure public accessibility to and review of these documents as well as the agenda packets with supporting material. Staff also ensures maintenance of and adherence to Board by-laws, policies, and positions.

As elected officials, the directors participate in numerous community activities and meetings throughout the basin as well as attending training and conferences to remain informed on federal,

state and regional activities with impact on the River Authority’s mission and service area responsibilities.

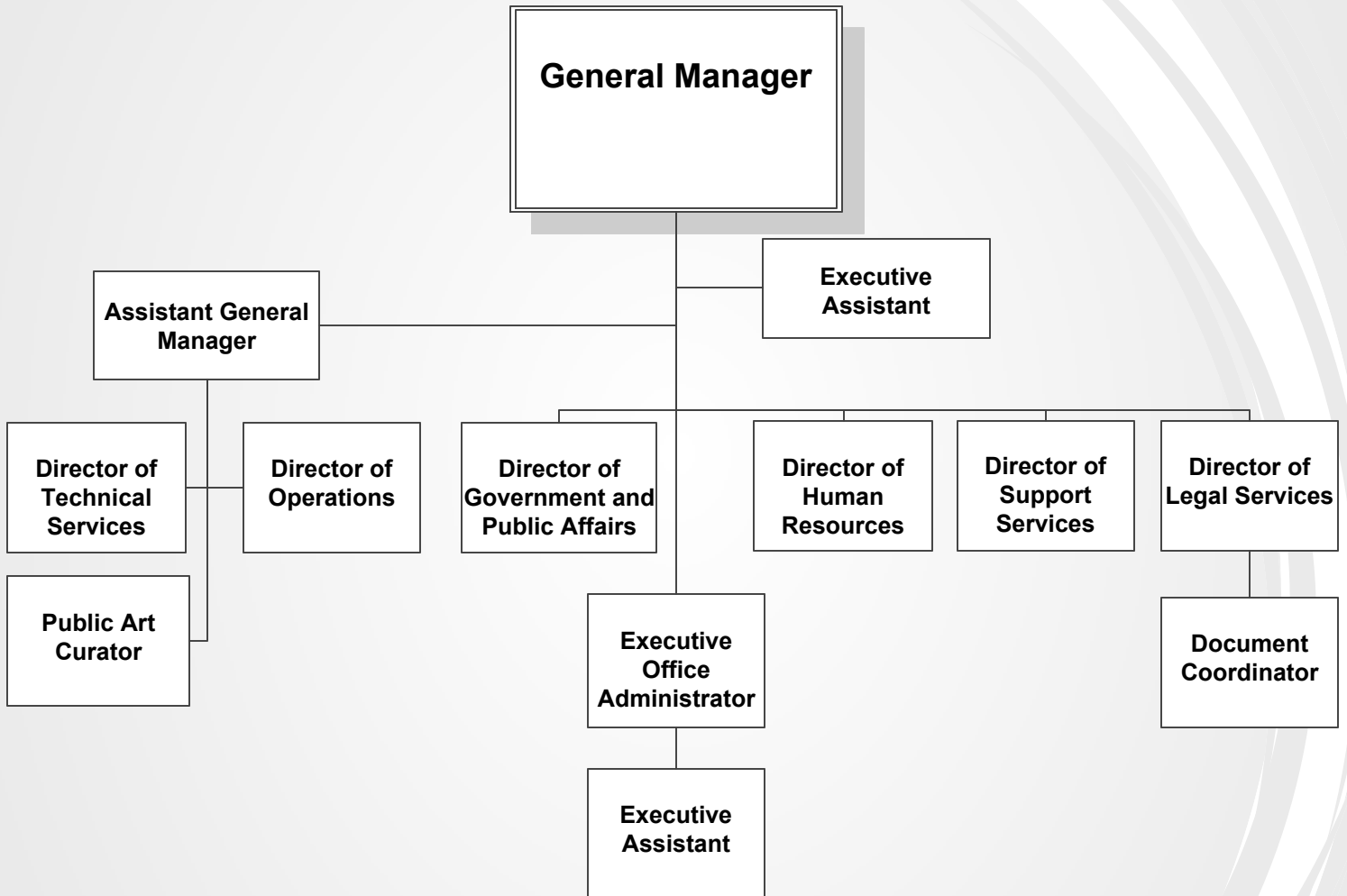
Appropriations:

	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$ 44,828	\$45,909	\$ 51,742
Operating Expenditures	209,280	35,544	414,200
<i>Total Appropriations</i>	<i>\$254,108</i>	<i>\$81,453</i>	<i>\$465,942</i>

Program Justification and Fiscal Analysis

The Board of Directors FY 2017/18 Budget increases significantly in comparison to the FY 2016/17 estimates entirely due to operating expenses. Elections for board positions are funded in this budget. In FY 2016/17, there were no elections held for any board positions. In FY 2017/18, elections will be held for two at-large board positions. Personnel expenditures increase slightly to ensure sufficient funding for all board meetings and requirements.

Executive Office



Organizational Support

Vision and Mission

Vision: Inspiring actions for healthy creeks and rivers

Mission: Protect and enhance our creeks and rivers through services, leadership and expertise

Department Description

The Organizational Support budget includes personnel costs for the executives and support staff to the General Manager as well as costs impacting the organization as a whole such as, but not limited to, general insurance, office supplies, tuition reimbursement, appraisal district services, legislative services and organization dues. The executive team includes the General Manager, Assistant General Manager and the Directors of Operations, Technical Services, Support Services, Legal Services, Government and Public Affairs and Human Resources. The professional services and travel and training costs for the executive team and support staff are also included.

The General Manager is the chief executive officer of the San Antonio River Authority. The duties and authority of the General Manager are prescribed in Section 14 of Chapter 276, page 556, Acts of the 45th Legislature, as amended, and in Article II of the Bylaws of the River Authority. The General Manager is responsible to the Board of Directors for the administration of the affairs and business of the River Authority. In addition to total management responsibility, the General Manager is directly responsible for the following:

- Recommendation of and adherence to policy direction of the Board of Directors.
- Execution of policies approved by the Board of Directors.
- Financial management and control, including submission of the annual financial audits.
- Submittal of the proposed annual budget to the Board of Directors.
- Employment of professional consultants.
- General forecasting, planning, coordination and control of all of the River Authority's goals, projects and programs in support of the direction of the Board.
- Employment of staff.

The Assistant General Manager (AGM) and Directors of Operations, Technical Services, Support Services, Legal Services, Government and Public Affairs and Human Resources share responsibility with the General Manager regarding certain River Authority programs, initiatives and administrative activities (some of which are listed below). The AGM serves as the acting manager in the absence of the General Manager. The AGM also serves as the Assistant Secretary to the Board of Directors.

- Manage the business of the River Authority in an efficient, ethical, effective, and progressive manner.
- Guide and direct staff to achieve the River Authority's goals and related performance measures.

- Promote responsiveness to the Board of Directors, the public, and partner entities.
- Provide directives to effectively communicate, inform, educate, and increase awareness and appreciation of the San Antonio River Basin.
- Oversee the development of a quality, character-based staff who are experts in their fields and exemplify environmental stewardship and leadership.
- Maintain an effective project management program and deliver valued public service.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$1,917,951	\$2,039,281	\$2,478,555
Operating Expenditures	1,370,727	1,157,684	1,576,567
Contingencies	-	-	450,000
<i>Total Appropriations</i>	<i>\$3,288,678</i>	<i>\$3,196,965</i>	<i>\$4,505,122</i>

Appropriations Include New Resources of \$227,700

Program Justification and Fiscal Analysis

The Organizational Support FY 2017/18 Budget reflects a significant increase in comparison to the FY 2016/17 estimate. This is a result of increases throughout all areas of the Organizational Support budget as well as funding for new resources.

In FY 2017/18, personnel expenditures show an increase compared to the FY 2016/17 estimate for several reasons. The FY 2017/18 budget includes full year funding for FY 2016/17 performance pay for the executive team and support staff awarded in September 2016. Funding is also budgeted for organization wide performance pay that will be awarded in September 2017 (FY 2017/18). In FY 2017/18, the art curator position, which was filled in April 2017, is funded for a full year and the Document Control – Legal Services position has been added. Additionally, the FY 2017/18 Budget for Organizational Support includes the promotion of the Intergovernmental and Community Relations Manager to Director of Government and Public Affairs. With this promotion, the position moves from the Intergovernmental and Community Relations budget to the Organizational Support budget.

The operating expenditures budget also reflects an increase compared to the FY 2016/17 estimate as a result of the Bexar Regional Watershed Management (BRWM) support for studies (moved from Watershed Engineering Department), financial management/human resources software system training subscription plan (moved from Information Technology Department) and contingencies were not drawn from the FY 2016/17 budget (\$400,000).

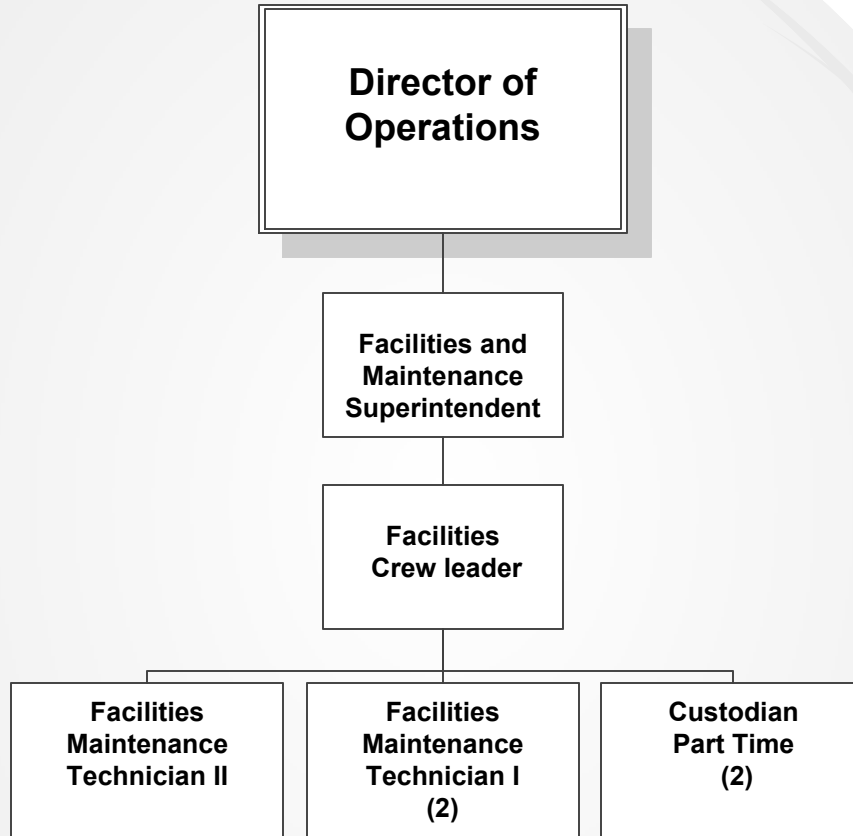
The Organizational Support Budget includes the amount of funding appropriated annually for Contingencies – unforeseen events or circumstances that require the River Authority to fund an unbudgeted expenditure. In FY 2016/17, the undesignated contingency was \$200,000. Funds were also set aside for grant cash matches. In FY 2017/18, the undesignated funds increase to \$250,000. Contingency funds are also set aside for surface water rights (\$50,000), and grant cash matches (\$50,000). The remaining \$100,000 in contingencies is to allow the River Authority to take advantage of opportunities to support partners’ activities as they may arise.

The FY 2017/18 budget appropriates \$227,700 for new resource expenditures. \$52,700 is allocated for a document control position. This position will support Legal Services as well as support records retention and document management activities which will benefit and provide assistance organization wide. The remaining \$175,000 of this budget is funding to support the art program for San Pedro Creek (\$25,000) and master planning efforts for the Park Segment of Museum Reach and other areas (\$150,000). The support includes stakeholder, oversight committees and other public input processes as well as master plan development.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
General Manager	151	1	1	1
Assistant General Manager	145	1	1	1
Director of Government and Public Affairs	140	0	0	1
Director of Human Resources	140	1	1	1
Director of Legal Services	140	1	1	1
Director of Operations	140	1	1	1
Director of Support Services	140	1	1	1
Director of Technical Services	140	1	1	1
Public Art Curator	126	0	1	1
Executive Offices Administrator	122	1	1	1
Executive Assistant	115	2	2	2
Document Control Coordinator	111	0	0	1
<i>Total Authorized Positions</i>		<i>10</i>	<i>11</i>	<i>13</i>

Facilities



Facilities

Vision and Mission

Vision: Customer Service is our priority.

Mission: Providing an environment that promotes excellence by developing, managing, maintaining, repairing, and remodeling the River Authority's infrastructure and facilities.

Department Description

The Facilities Department seeks to provide efficient operation and maintenance services for the San Antonio River Authority's buildings and fleet. Responsibilities include security management, facilities management, fleet management, custodial services, and other support functions furnished to River Authority staff. The department's goal is to provide the best available services in the areas of safety and fleet, provide a safe, comfortable, and sustainable working environment for employees, and ensure facilities are properly maintained to protect the organization's assets.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The Facilities Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority's organization wide Strategic Plan.

Diversify and Leverage Resources – *Diversify and leverage funding, technology, and people (employees, partners, community) to strengthen business processes and River Authority service delivery.*

- Finalize asset management software implementation and build business processes to improve management of physical resources.
- Develop a replacement program for the organization's assets.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$280,012	\$266,737	\$362,536
Operating Expenditures	851,395	826,714	809,625
Capital Expenditures	-	297,841	491,000
<i>Total Appropriations</i>	<i>\$1,131,407</i>	<i>\$1,391,292</i>	<i>\$1,663,161</i>

Appropriations Include New Resources of \$48,600

Program Justification and Fiscal Analysis

The Facilities FY 2017/18 Budget increases significantly overall in comparison to the FY 2016/17 estimate driven by a mix of increased personnel costs and new capital expenditures. This includes the purchase of equipment and vehicles needed to continue efficient and effective operations.

In FY 2017/18, personnel expenditures see an increase due to two factors. The Facilities and Maintenance Superintendent position's costs, formerly fully funded in the wastewater utility system funds, are split between Facilities (40 percent) and wastewater operations (60 percent) beginning in FY 2017/18. In FY 2016/17, this position took responsibility for the facilities maintenance function in the General Fund. Continuing into FY 2017/18, this position oversees all of the Facilities operation and maintenance services for the entire organization, providing efficiencies for the organization. In addition, full year funding of performance pay awarded in September 2016 is included in the FY 2017/18 budget. Finally, one part time Custodian position is changing to one full time Facilities Maintenance Technician I position to provide custodial services during regular business hours and increase the services provided.

The budget for operating expenditures includes appropriations for all services provided by Facilities staff and remains fairly steady to maintain the same level of service.

The FY 2017/18 Budget for Facilities includes funding of \$491,000 for capital expenditures. Ten vehicles (\$394,000) are slated for replacement. All of these vehicles have high mileage and maintenance costs. The Facilities and Maintenance Superintendent completed an analysis of vehicle usage based on mileage and type of vehicle. As a result, fifteen vehicles are being surplus with ten replacement vehicles being purchased. The General Fund fleet is reduced by five vehicles. One replacement vehicle being acquired is a four wheel drive truck to allow staff to visit job sites. The reduction in the overall fleet size may result in the need to rent larger vehicles on occasion and/or to pay mileage reimbursement to staff. However, even factoring in these costs, the net impact to the General Fund is a significant savings.

Capital expenditure funding is also included to replace air conditioning equipment (\$25,000) at the Environmental Center (Euclid Facility) to ensure information technology (IT) equipment is in a stable environment. Replacement of the roof (\$37,000) at the Watershed and Park Operations

Lonestar shop and replacement of the leafguard gutters (\$35,000) at the Guenther building are also funded in FY 2017/18.

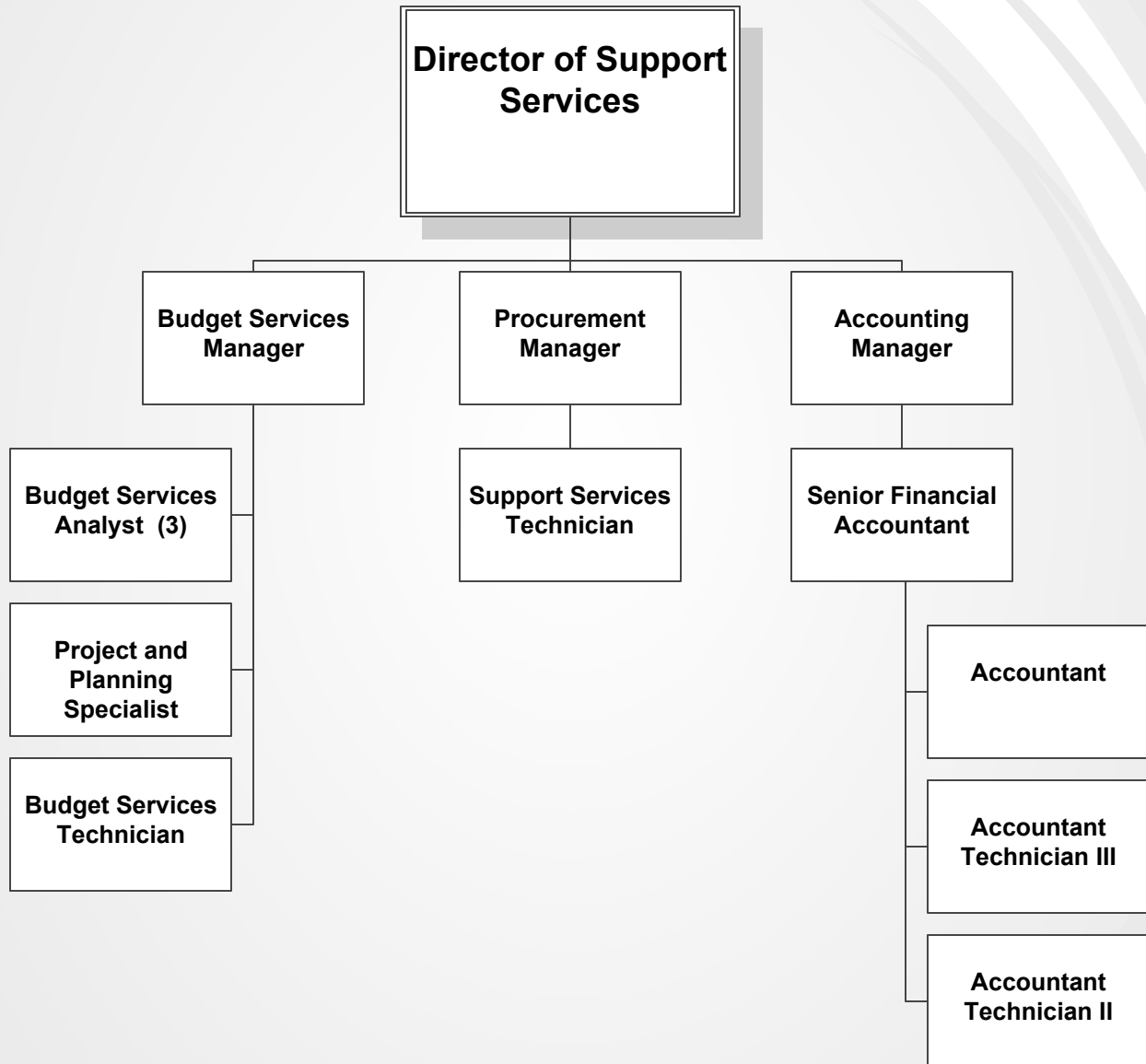
Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Facilities and Maintenance Superintendent*	124	0	0	0.5
Facilities Administrator	121	1	1	0
Electrician**	120	0.5	0	0
Facilities Crewleader	112	0	0	1
Facilities Maintenance Technician II	110	0	1	1
Facilities Maintenance Technician I	109	2	1	2
Custodian – Part Time	103	3	3	2
<i>Total Authorized Positions</i>		6.5	6	6.5

*Beginning in FY 2017/18, the Facilities and Maintenance Superintendent position’s cost is split between wastewater operations (60 percent) and Facilities (40 percent).

** Through FY 2015/16, 50 percent of the Electrician position was funded in the San Antonio River Authority Wastewater System Fund. Beginning in FY 2016/17, this position was authorized and fully funded in the San Antonio River Authority Wastewater System Fund.

Support Services - Finance



Finance

Vision and Mission

Vision: Provide support and expertise to make plans a reality

Mission: Collectively identify and implement innovative solutions that inspire action

Department Description

The Finance Department provides a full range of accounting, budgeting and purchasing services for all departments and divisions of the San Antonio River Authority. The Finance Department is an active team player that supports the entire organization with respect to payroll processing, accounts payable, accounts receivable, budgeting, contracting, purchasing, tracking and recording general fixed assets, and financial and asset management. Department staff takes part in and serves as the financial representative on the many new and on-going projects of the River Authority. Finance is also responsible for cash management, investing, annual audits and financial reporting for all River Authority funds. In addition, Finance also is responsible for managing all aspects related to debt issuances.

The Finance staff is responsible for developing and monitoring the annual operating and project budgets. Staff assists departments with fiscal planning, analysis and project management. Finance staff also works to provide the River Authority's departments with high quality, efficient and accurate financial and accounting services and exercises fiduciary responsibility to safeguard the River Authority's financial assets and manage its financial resources. Purchasing staff oversees all procurement processes for goods and services, vendor relationships and provides contract management services to obtain the highest quality products and services in the most efficient and cost effective manner possible to ensure best value.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The Finance Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority's organization wide Strategic Plan.

Diversify and Leverage Resources – *Diversify and leverage funding, technology, and people (employees, partners, community) to strengthen business processes and the River Authority's service delivery.*

- Finalize asset management software implementation and build business processes to improve management of physical resources.

- Enhance the disaster recovery and business continuity plans.
- Implement processes that assist with human capital management (capacity planning) and work prioritization.
- Build a business plan for growth and service delivery for the utility enterprise.
- Develop a replacement program for the organization’s assets.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$1,011,993	\$1,070,940	\$1,184,030
Operating Expenditures	259,437	249,082	375,055
Capital Expenditures	-	-	-
<i>Total Appropriations</i>	<i>\$1,271,430</i>	<i>\$1,320,022</i>	<i>\$1,559,085</i>

Program Justification and Fiscal Analysis

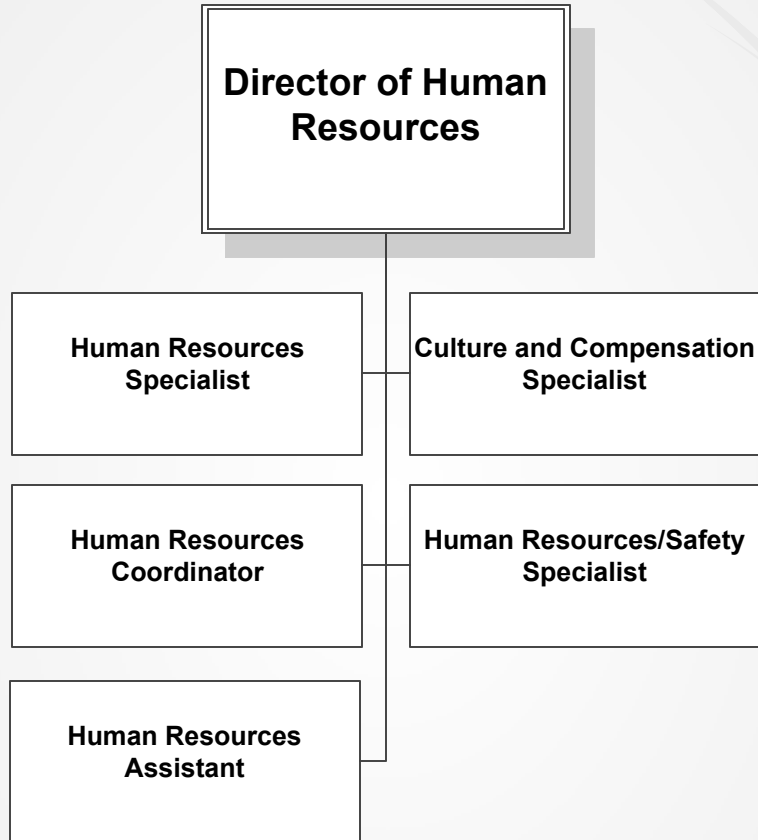
The FY 2017/18 Budget for Finance reflects an increase in comparison to the FY 2016/17 estimates. The increase is due to personnel expenditures that include full year funding of performance pay that was awarded in September 2016. All positions are also fully funded in FY 2017/18. During FY 2016/17, a few vacancies occurred generating a slight savings in that year and redistribution of work duties within department positions assisted in efficiencies and responsiveness to the organization’s needs.

Operating expenditures decreased slightly in FY 2017/18 in comparison to the FY 2016/17 estimates due to costs associated with software improvements to the financial management/human resources management/procurement software system that occurred in FY 2016/17.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Budget Services Manager	134	1	1	1
Accounting Manager	133	1	1	1
Procurement Manager	133	0	1	1
Senior Financial Accountant	126	0	1	1
Project and Planning Specialist	124	1	1	1
Budget Services Analyst	119	3	3	3
Purchasing Agent	119	1	0	0
Financial Accountant	117	1	1	0
Accounting Analyst	117	1	0	0
Accountant	113	0	0	1
Accounting Technician III	112	1	1	1
Budget Services Technician	112	1	1	1
Support Services Technician	112	0	1	1
Accounting Technician II	109	2	1	1
Intern	101	1	1	1
<i>Total Authorized Positions</i>		<i>14</i>	<i>14</i>	<i>14</i>

Human Resources



Human Resources

Vision and Mission

Vision: Building great teams of inspirers

Mission: Recruit, develop, and retain servant leaders and experts

Department Description

The Human Resources Department partners with San Antonio River Authority employees to promote a work environment that attracts and inspires employees who embody the River Authority's core values and support the River Authority's vision, mission, and organizational goals. The department makes available proactive support resources for the executive staff, managers, and employees and is focused on delivering quality customer service to all employees. Human Resources staff provides strategic and effective programs that attract, retain and develop top talent. Staff manages all internal communications, compensation, benefits, safety and risk management, and training and development programs while supporting the culture for the River Authority.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The Human Resources Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority's organization wide Strategic Plan.

Build Strength-Based Teams and Expertise – *Strengthen, develop and anticipate expertise at all levels and enhance results, improve service efficiencies, and build dynamic teams.*

- Plan and implement regular activities to strengthen interdepartmental interaction.
- Foster and elevate employee self-awareness by providing assessments and training.
- Utilize StrengthsFinders to optimize work teams.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$348,457	\$348,818	\$381,222
Operating Expenditures	74,798	69,700	77,984
Capital Expenditures	-	-	-
<i>Total Appropriations</i>	\$423,255	\$418,518	\$459,206

Program Justification and Fiscal Analysis

The Human Resources FY 2017/18 reflects an increase in comparison to the FY 2016/17 estimates. The increase is due almost entirely to personnel expenditures that include full year of performance pay that was awarded in September 2016.

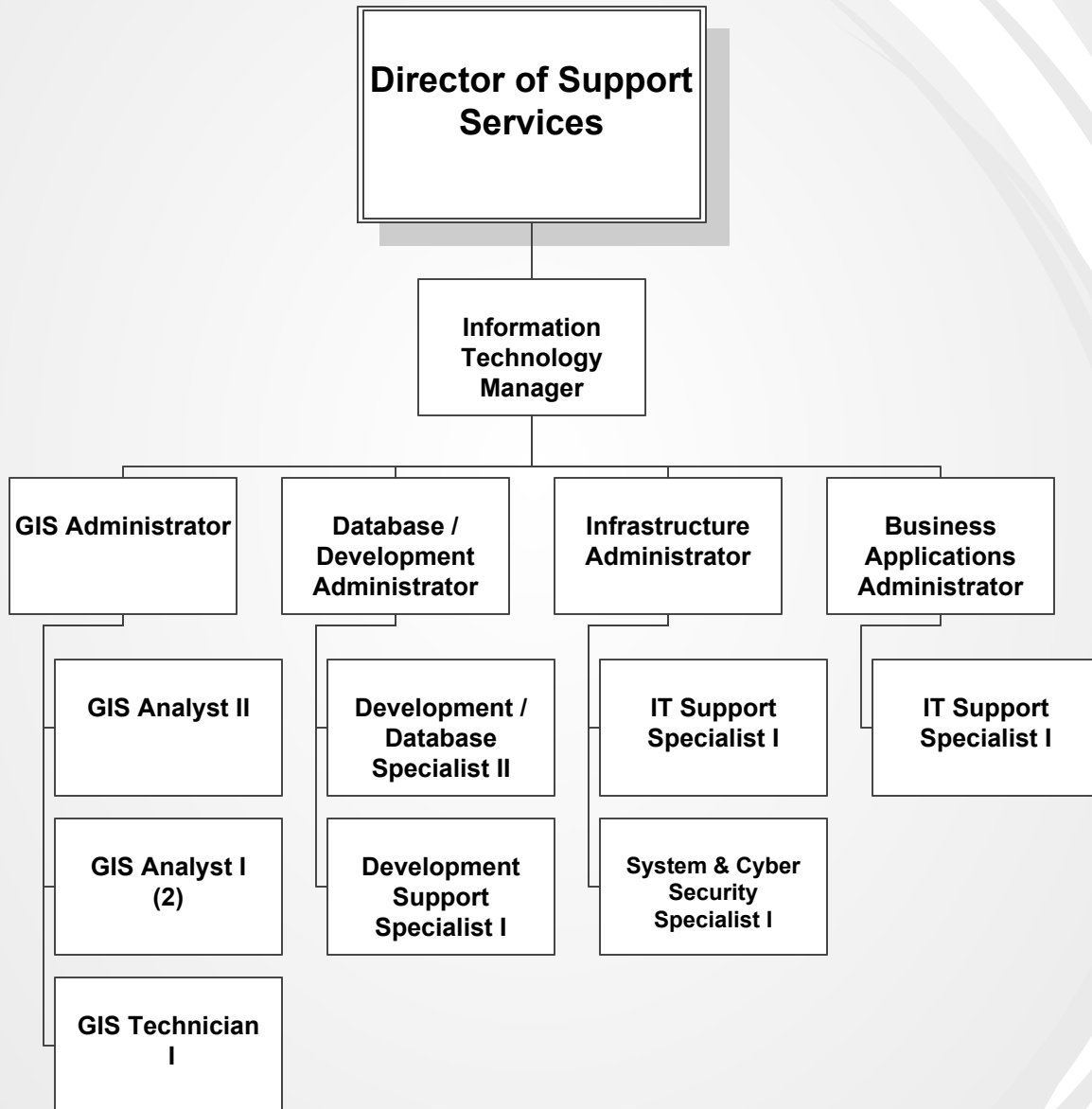
In FY 2017/18, the Human Resources Budget includes recruiting services, advertising, software and new hire programs to assist with continuing the development of a quality focused workforce.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Culture and Compensation Specialist	122	0	0	1
Human Resources Specialist	122	1	1	1
Human Resources/Safety Specialist	122	1	1	1
Internal Communications Coordinator	118	1	1	0
Human Resources Coordinator	112	1	1	1
Human Resources Assistant	109	0	1	1
Administrative Technician	106	1	0	0
Intern	101	1	1	1
<i>Total Authorized Positions</i>		6	6	6



Support Services - Information Technology



Information Technology

Vision and Mission

Vision: As an epicenter of technology, we improve customer's performance, always looking to remember the human aspect of information technology.

Mission: An empowering force with innovative approaches and an example of a full service commitment to its users.

Department Description

The Information Technology (IT) Department supports the technical operations of the San Antonio River Authority and is responsible for all computer and communications related assets. The staff manages the network infrastructure (servers, routers, storage, etc.), telephone systems, provides software application support, completes web development and, through the helpdesk, addresses user's issues, problems and concerns.

The IT Department's vision is to serve as the organization's strategic technology leader to ensure that the River Authority continues to operate in a highly efficient manner and that employees have the necessary resources to increase productivity. Staff works to provide cost-effective technological solutions by taking advantage of ever-changing technologies, all of this without sacrificing the need for robust cybersecurity.

The IT Department also encompasses a Geographic Information System (GIS) team that provides a full range of GIS services to the River Authority and its partners. The GIS team strives to be responsive, collaborative, and innovative while engaging both internal and external stakeholders. The GIS team supports activities that include data collection, geospatial tool development, and spatial analysis to support decision making and complex problem solving. GIS is used to inform and facilitate River Authority initiatives regarding water resources, community planning, flood risk, asset management, and water quality. The team also provides various services such as: ad-hoc map and data development, revisions to the effective Flood Insurance Rate Map (FIRM), data management, GIS web services, application development, enterprise GIS server management, and support for hydraulic and hydrologic modeling done by the River Authority's scientists and engineers.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The Information Technology Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority's organization wide Strategic Plan.

Diversify and Leverage Resources – *Diversify and leverage funding, technology, and people (employees, partners, community) to strengthen business processes and River Authority service delivery.*

- Enhance the disaster recovery and business continuity plans.
- Develop and implement technologies, policies and procedures that mitigate risks associated with cybersecurity.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$892,967	\$1,143,633	\$1,332,569
Operating Expenditures	1,022,466	1,564,861	1,663,346
Capital Expenditures	24,127	53,438	17,000
<i>Total Appropriations</i>	<i>\$1,939,560</i>	<i>\$2,761,932</i>	<i>\$3,012,915</i>

Appropriations Include New Resources of \$437,162

Program Justification and Fiscal Analysis

The Information Technology FY 2017/18 Budget reflects a significant overall increase in comparison to the FY 2016/17 estimate. This is mainly a result of funding for new resources. Increases in personnel expenditures are offset by decreases in operating expenditures.

In FY 2017/18, personnel expenditures show an increase compared to the FY 2016/17 estimate for two reasons. The FY 2017/18 budget includes full year of funding of performance pay increases awarded in September 2016. In addition, one GIS Technician I position moved from wastewater utility system funding in FY 2016/17 to General Fund funding in FY 2017/18. In FY 2017/18, the entire GIS team will charge against projects and wastewater operating and capital funds as work is performed by staff to support these activities. Through FY 2016/17, the GIS team was considered a support function and did not charge directly to projects and activities.

The budget for operating expenses decreases slightly in comparison to the FY 2016/17 estimate mainly due to the purchase and implementation of an asset management software system that provides the River Authority with the ability to track and manage all assets – including those managed by the wastewater system, issue work orders, as well as track costs associated with repair and maintenance of assets. In FY 2015/16, \$250,000 was allocated to acquire this asset management system. The procurement and contract development process was completed in April 2016. Implementation began in June 2016. A significant portion of the costs of this system (\$197,900) was carried into FY 2016/17 along with an increase of \$140,000 to fund the annual

maintenance fee and cost for the second half of the one-time licensing fee. Implementation and training will be completed in FY 2017/18, therefore a portion of the cost (\$162,411) is being carried into FY 2017/18.

Capital expenditures in FY 2017/18 for the IT Department include two purchases. The first is a plotter (\$17,000) for Watershed Engineering that provides high resolution scanning to scan plans, sheets, and large prints. The second is an upgrade to the telephone system (\$40,000) to the latest version to keep it under support by the manufacturer and extend the life of the system.

The Information Technology budget for FY 2017/18 includes a total of \$437,162 for new resources that benefit the organization. Some of this funding may move to other departmental budgets, if approved. \$106,782 is allocated for three limited term employees (LTE). These positions will complete lower level tasks so that full time staff can focus on higher level tasks. Three teams will have an LTE assigned – Business Applications, GIS and Development and Database. The LTE's will allow staff to address the backlog and new requests for technology improvements.

Funding to continue enhancing the River Authority's cybersecurity is included in new resources with \$50,000 for the business continuity and disaster recovery plan; \$3,500 to add a physical server to support disaster recovery; and \$4,795 to purchase a physical server and software to pursue the 20 critical controls in the River Authority's cybersecurity efforts.

Four critical software systems at the River Authority - Clarity for project management, ONESolution for financial/human resources/payroll management, KRONOS for time keeping management, and Lucy for asset management – are funded for consultant support. A total of \$96,000 is included to support ONESolution improvements including changes and enhancements for Applicant Online and Contract Management, security access and permission implementation, Kronos and Clarity integration, payroll module enhancements, invoice routing, reporting, and accounts payable automation. The Clarity software was upgraded to a current version in FY 2016/17. A total of \$39,400 is included to enhance the functionality established in the Clarity upgrade project; additional funding will be used to ensure user satisfaction and maximize system efficiency. Funding of \$17,000 is included to support enhancements to the KRONOS timekeeping software to ensure compliance with River Authority policies and provide staff efficiencies in managing time and payroll. An additional \$22,500 is included in the FY 2017/18 budget to support the Lucy asset management system implementation to ensure the system is fully functional.

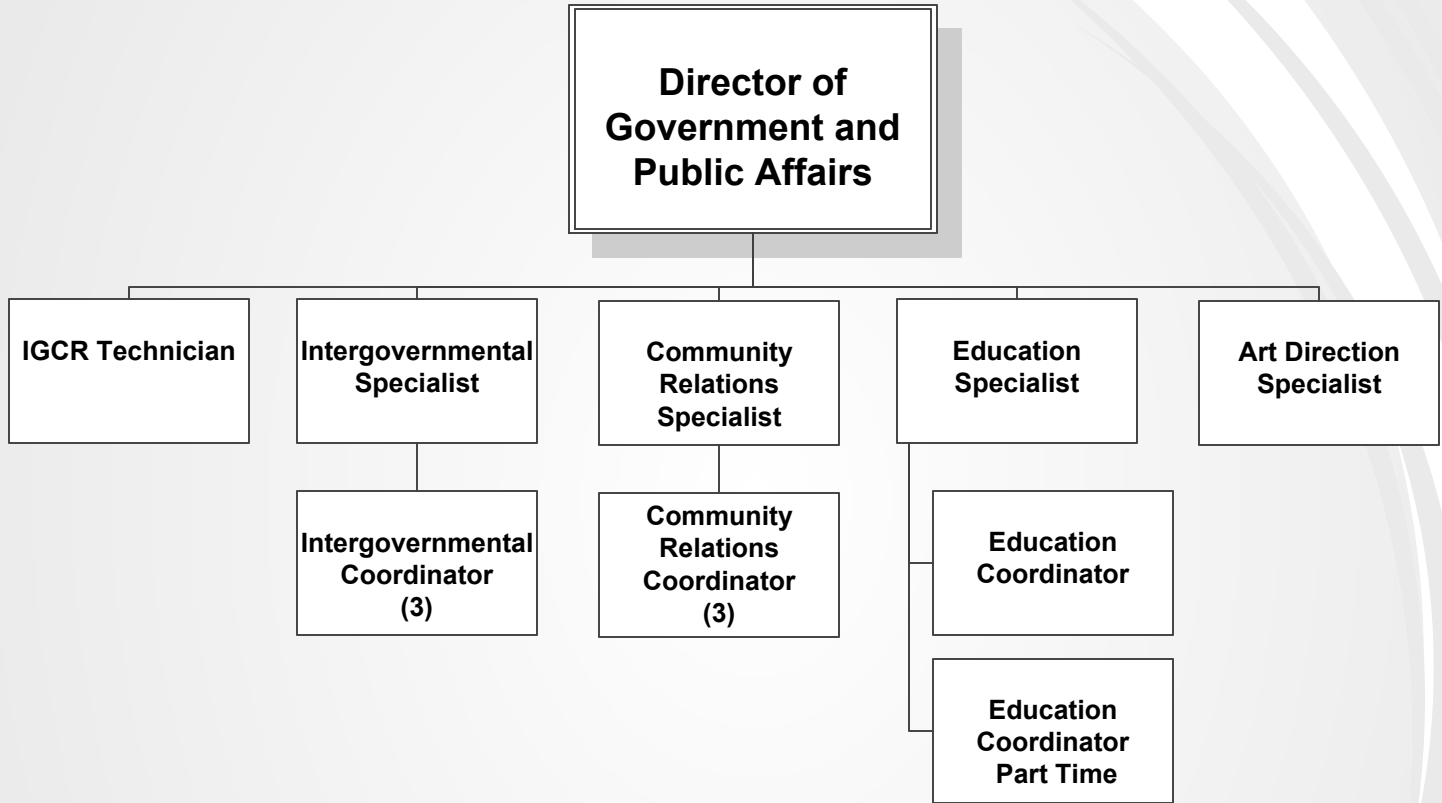
\$56,300 is allocated in the General Fund with additional funding in the wastewater utility funds to purchase replacement computers. The River Authority's replacement program for desktop computers calls for a four year replacement cycle. Prior to FY 2016/17, the River Authority had computers that had exceeded the four year life. In FY 2017/18, all computers are now four years old or less. The FY 2017/18 funding will keep the program on track. \$20,000 is allocated for conference room improvements along with \$2,400 to purchase WebCAMs to facilitate virtual meetings with internal and external participants. The conference room upgrades will be completed in the busiest rooms in FY 2017/18 and serve as a model for the other rooms as funding becomes available. The objective is to increase ease of use for those using the rooms and reduce the need for assistance from Information Technology staff. Additionally, \$4,000 is allocated to acquire ShareGate software which will allow migration of documents from physical folders to the cloud.

To support the River Authority’s role in the community’s SMART Cities initiatives, \$11,685 is allocated to purchase several new GIS software licenses to enhance participation in community planning, and increase technologies supporting Open Data. These new tools will strengthen the GIS and technical teams in the areas of: enhanced technical communication with the use of mockups/prototypes/user experience design, collaborative planning using community GIS data directly related to SA Tomorrow and the City of San Antonio’s Comprehensive Plans, 3D community model development, and providing more integrated tools for GIS data quality control and workflow development. Additionally, \$2,800 is allocated to purchase a drone and staff training to develop story maps by providing more current geospatial imagery.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Information Technology Manager	134	1	1	1
Business Applications Administrator	124	0	1	1
GIS Administrator	124	0	1	1
Infrastructure Administrator	124	0	1	1
Database/Development Administrator	124	0	1	1
Network Administrator	123	1	0	0
Development/Database Specialist II	123	2	1	1
Senior GIS Developer	122	1	0	0
Systems Administrator	122	1	0	0
Systems and Cybersecurity Specialist I	122	0	1	1
Web Administrator	122	1	0	0
Development Support Specialist I	122	0	1	1
Web Developer	121	1	0	0
GIS Analyst II	119	0	1	1
GIS Analyst I	118	3	2	2
Information Technology Support Specialist	118	0	2	2
Computer Technician	115	1	0	0
GIS Technician I	114	0	0	1
Business Applications - LTE	104	0	0	1
Development and Database Specialist – LTE	104	0	0	1
GIS LTE	104	0	0	1
Intern	101	0	1	1
<i>Total Authorized Positions</i>		<i>12</i>	<i>14</i>	<i>18</i>

Intergovernmental Community Relations



Intergovernmental and Community Relations

Vision and Mission

Vision: Cultivating communities inspired to take action

Mission: Shaping communications to advocate for a safe, clean and enjoyable river

Department Description

The Intergovernmental and Community Relations Department (IGCR) works to manage the San Antonio River Authority's image within and outside of the district to advance the agency's vision and mission. IGCR staff strive to lead by example and set the agency standard for both internal and external customer responsiveness by cultivating a work environment within that fosters professional growth among the team members, recognizes both individual and team successes and supports a positive team atmosphere.

The intergovernmental component of IGCR helps to secure the River Authority's leadership role in developing and implementing holistic watershed solutions by fostering efficient and effective intergovernmental relationships. Staff also manages legislative and congressional activities to ensure that the River Authority and its project partners capitalize on opportunities and avoid delays in, or roadblocks to, achieving defined goals and objectives. IGCR also coordinates responses to and visits from domestic and foreign governments, agencies and individuals seeking information and/or assistance from the River Authority.

The community relations staff provides external communications support by working directly with departments, program leaders and project managers in the development of communications tools designed to increase awareness of the River Authority's vision, mission, services, projects and goals. IGCR promotes positive media relationships and seeks positive exposure in the media within and outside of the district. Staff also organizes and conducts events designed to educate the general public, River Authority employees and other agencies about the River Authority, its vision, mission, services, projects and goals.

The IGCR education staff develops outreach projects and education programs throughout the San Antonio River watershed targeting school-aged children, adults and community leaders and provide assistance to groups with missions consistent with the River Authority's.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

IGCR staff has responsibility for completing and/or assisting the completion of the following items incorporated under objectives that are included in the San Antonio River Authority's organization wide Strategic Plan.

Advance Watershed Health and Safety – *Generate recognized and sustainable improvements to the health and safety of our creeks, rivers, estuaries and bays.*

- Advocate for funding to upgrade Escondido Dams 1 and 2 in Karnes County.

Enhance Community Appreciation and Recreation – *Enhance community engagement and appreciation for and recreational use of our creeks and rivers.*

- Increase the use of our parks by community groups.
- Develop and launch interactive modules and activities for the Watershed Wise River Discovery Project.

Implement Watershed Solutions – *Advance and apply our expertise to influence, develop, and implement watershed solutions that balance the environmental, economic and quality of life needs of our communities.*

- Integrate the watershed master plans and enhance their use in regional policy development and project decisions through the SA Tomorrow Regional Master Plans.
- Secure approval for expansion of the Resource Conservation Partnership Program (RCPP) to restore and protect wetlands and marshes in the San Antonio Bay.

Diversify and Leverage Funding – *Diversify and leverage funding, technology, and people (employees, partners, community) to strengthen business processes and SARA service delivery.*

- Enhance the disaster recovery and business continuity plans.
- Identify opportunities to foster relationships, share expertise and increase collaboration with other public entities, including River Authorities.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$ 992,527	\$1,051,929	\$ 1,006,441
Operating Expenditures	523,913	612,739	692,850
Capital Expenditures			
Media Costs	604,391	572,455	484,500
Soil and Water Conservation District Grant	96,740	100,000	100,000
<i>Total Appropriations</i>	<i>\$2,217,571</i>	<i>\$2,337,123</i>	<i>\$2,283,791</i>

Appropriations Include New Resources of \$100,146

Program Justification and Fiscal Analysis

The Intergovernmental and Community Relations (IGCR) FY 2017/18 Budget reflects a slight decrease in comparison to the FY 2016/17 estimate. The decrease is due mostly to personnel expenditures which includes the transfer of the Department Manager position to the Executive Team. This position is upgraded to a director and authorized and funded in the Organizational Support budget in FY 2017/18. This reduction in the IGCR personnel costs is partially offset by full year funding of performance pay that was awarded in September 2016.

The budget for operating expenses reduces slightly in FY 2017/18 and includes the largest operating expense for IGCR which relates to the River Authority’s outreach and media campaign efforts (shown above in Media Costs). In FY 2017/18, the budget includes the annual advertising costs, production of videos as well as the cost to place commercials. FY 2016/17 included a slightly larger allocation of funding for production of videos, associated media and outreach because of special projects completed during this year.

IGCR will continue to manage the Agricultural Waste Collection Events which began FY 2015/16 to provide agriculture producers a safe location to dispose of chemicals, fertilizers and other items associated with agriculture production. FY 2017/18 will mark the sixth year that IGCR will manage and provide support for the Southern Basin Household Hazardous Waste Events as part of its continuing community assistance commitment.

The FY 2017/18 Budget includes a total of \$100,146 for new resources in IGCR, which includes the addition of a limited term employee (LTE) Web Developer position and funds to support the River Authority’s involvement in activities associated with the City of San Antonio Tricentennial. The Web Developer position will focus on creation of and then enhancements to the Watershed Wise River Discovery project’s website. This is a multi-faceted outreach and educational project that collects data and information from multiple sources, and presents it through the www.sara-

tx.org website to reach a wide audience to enhance community appreciation and recreation for the watershed. This project, which was initiated in FY 2016/17, will provide various informative and interactive modules to include water quality, aquatic and riparian ecosystems, recreation, bays and estuaries, and historical information including the acequias, geology, and economic uses.

The FY 2017/18 Budget includes the support through Natural Resources Conservation Service - RESTORE program which provides matching funds (\$25,000) for enhancing stream buffers in critical areas within Wilson, Karnes and Goliad counties. In this fiscal year, the IGCR budget provides other sponsorship activities including for the Witte Museum (\$25,000) Center for Rivers and Aquifers. In addition, \$50,000 is allocated to support the San Pedro Creek project's construction related events.

Efforts

Soil and Water Conservation Districts (SWCD) Grant Support

The River Authority is dedicated to assisting implementation of agricultural conservation practices that improve water quality, water quantity and plant condition as well as SWCD education and outreach efforts. The River Authority provides the SWCDs within the agency's district with \$25,000 grants to be utilized for cost-share grants for the implementation of approved conservation practices and education outreach activities.

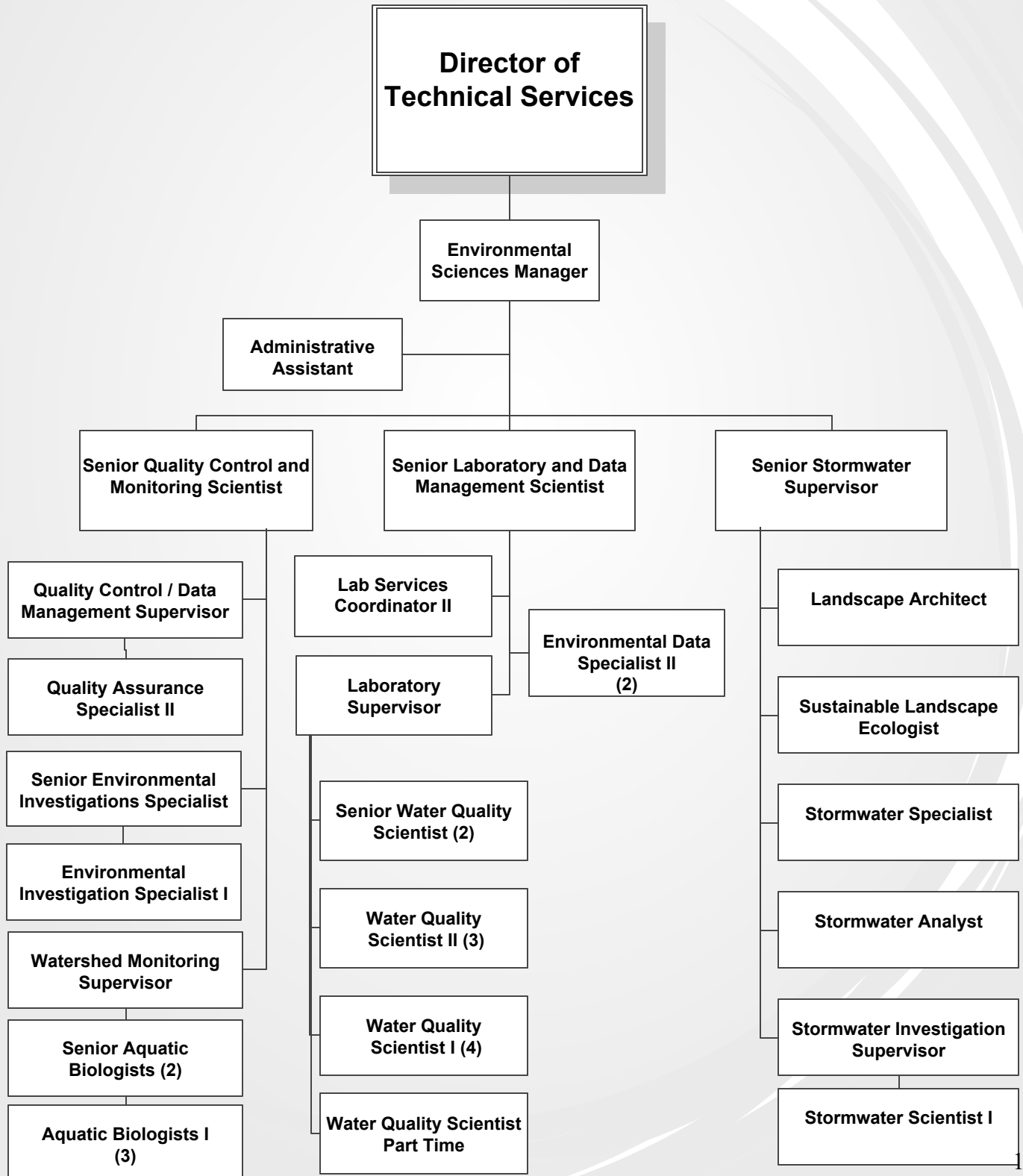
Earned, Social and Paid Media

IGCR staff works to maximize media placement for the River Authority through earned, social and paid media techniques. This effort is to increase awareness of the agency and river-related issues and to promote public meetings and other River Authority related events and activities. Staff seek to foster relationships with traditional media outlets while maintaining and developing new awareness opportunities through messaging and video on several social media outlets including Facebook, Twitter, Instagram, YouTube and Nextdoor. The department budget also supports the River Authority's media buy to help expand outreach efforts to inform and educate the River Authority's constituents.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
External Communications Manager	134	1	1	0
Intergovernmental Specialist	126	1	1	1
Community Relations Specialist	124	1	1	1
Education Specialist	124	1	1	1
Art Direction Specialist	121	1	1	1
Community Relations Coordinator	117	2	3	3
Education Coordinator	117	1	1	1
Intergovernmental Coordinator	117	4	3	3
Intergovernmental and Community Relations Technician	112	1	1	1
Web Developer - LTE	104	0	0	1
Education Coordinator - Part-Time	103	0	1	1
Intern	101	2	1	1
<i>Total Authorized Positions</i>		<i>15</i>	<i>15</i>	<i>15</i>

Environmental Sciences



Environmental Sciences

Vision and Mission

Vision: Uniting communities through innovative technologies to inspire environmental awareness

Mission: Enhancing watershed health through scientific expertise and strategic solutions

Department Description

The Environmental Sciences Department (ESD) provides research, data gathering, scientific assessment, and environmental coordination for the San Antonio River Authority regarding water quality and environmental planning, pollution prevention, resource protection, stormwater management, ecosystem restoration, instream/environmental flow needs, sustainability, public health issues and public outreach. ESD provides a full service laboratory operation as well as services in the following areas: water quality/environmental monitoring; pollution investigation; quality assurance; data management; water quality planning and assessments; stormwater education, incentives, and monitoring; and environmental support and collaboration for other River Authority departments. ESD strives to be a full service resource for other River Authority departments, agencies, and businesses that must comply with water-related environmental and public health regulations. In addition, ESD provides low impact development (LID) plan review services for public and private entities. Through the services provided by ESD, citizens in the San Antonio River Basin realize improved water quality and ecosystem health and optimum management of water resources including stormwater.

The department continues to encourage incorporation of low impact development and other on-site stormwater best management practices into public and private development projects through creation of incentives, elimination of barriers, and continued education, outreach and training. ESD coordinates with other River Authority departments on activities and projects that have environmental components and provide assistance in resolving environmental concerns. The department works to enhance interagency coordination efforts to advance basin-wide water quality planning efforts and promote integrated management practices to realize increased water quality.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The Environmental Science Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority's organization wide Strategic Plan.

Advance Watershed Health and Safety – *Generate recognized and sustainable improvements to the health and safety of our creeks, rivers, estuaries and bays.*

- Promote healthy ecosystem dynamics of the Mission Reach and Westside Creeks by assessing native freshwater mussel survivability and aquatic toxicology.

Enhance Community Appreciation and Recreation – *Enhance community engagement and appreciation for and recreational use of our creeks and rivers.*

- Enhance, develop and launch interactive modules and activities for the Watershed Wise River Discovery Project.

Implement Watershed Solutions – *Advance and apply our expertise to influence, develop, and implement watershed solutions that balance the environmental, economic and quality of life needs of our communities.*

- Integrate the watershed master plans and enhance their use in regional policy development and project decisions through the SA Tomorrow Regional Master plans.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$2,806,052	\$2,955,902	\$3,095,791
Operating Expenditures	547,718	641,542	705,227
Capital Expenditures	7,080	-	148,097
Stormwater Monitoring and Sampling	-	-	156,000
<i>Total Appropriations</i>	<i>\$3,360,850</i>	<i>\$3,597,444</i>	<i>\$4,105,115</i>

Appropriations Include New Resources of \$73,710

Program Justification and Fiscal Analysis

The Environmental Sciences FY 2017/18 Budget reflects a significant increase in comparison to the FY 2016/17 estimate because of increased personnel expenditures, capital expenditures and funding for new resources (described below). The increase in base budget personnel expenditures results from full year funding of performance pay increases awarded in September 2016 and full year funding of all positions.

The FY 2016/17 Budget includes a total of \$209,210 in new resources, \$135,500 of which is for replacement of several key laboratory instruments (Autoclave, Discrete Analyzer and Ion Chromatograph). In FY 2017/18, one limited term position has been added to support the department staff with the implementation of a new laboratory information software system.

An effort is being initiated in FY 2017/18 for the post-construction stormwater analysis which includes \$35,700 in new funding. This effort collects and analyzes post-construction stormwater runoff and compares it to the runoff collected before stormwater features were constructed. The River Authority Environmental Sciences Department staff collects and analyzes stormwater flowing into and out of the stormwater LID features. The City of San Antonio has completed construction of the Hausman Road project and has requested that the River Authority conduct post-construction stormwater monitoring and assessment.

Additionally, the FY 2017/18 Budget has allocated \$156,000 for outside contracting support of sampling, analysis of collected data, installation of equipment, data management, and quality control/quality assurance predominantly to support stormwater sampling.

The River Authority continues its commitment in providing \$25,000 in financial sponsorship for the San Antonio Bay Partnership grant. This program provides matching funds based on local financial support of planning and programs for habitat conservation, environmental education and outreach and coastal public access in the San Antonio Bay system.

The Environmental Sciences FY 2017/18 Budget also includes \$22,250 to provide LID certification workshops for participants from both government agencies and the private design and development community.

Efforts

Stormwater Monitoring and Sampling

The River Authority through its Environmental Sciences Department is at the forefront of stormwater monitoring, with an emphasis on three types of monitoring and data collection activities: continuous in-stream, stormwater event, and low impact development (LID) feature performance.

The River Authority currently operates and maintains ten in-stream monitoring systems programed continuously to measure several water properties under ambient and stormwater conditions. ESD stormwater unit members conduct maintenance and calibration regularly on the systems. After larger storm events, the team verifies that all systems are functioning and conducts emergency maintenance as necessary. Due to the differing topography, riparian conditions, and accessibility at each site, staff have tailored the systems to maximize performance and equipment security, including ensuring that equipment can withstand extreme heat and, recently, flood-proofing the systems.

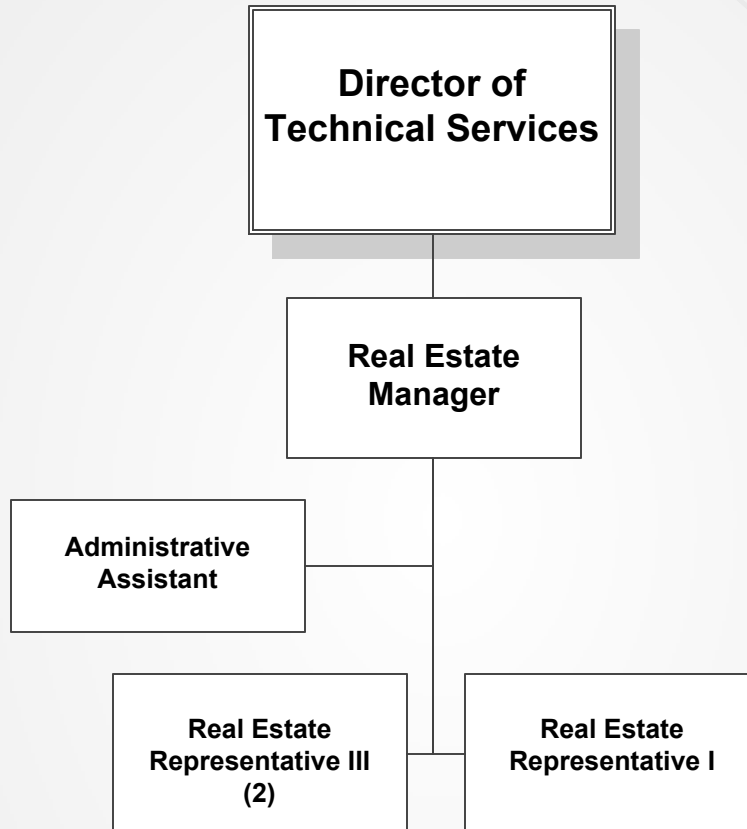
ESD stormwater and field staff also collect storm-specific water samples to characterize water quality from just before storms begin through the duration of the storm events. This monitoring is conducted at select locations both for creeks/streams and to determine the performance of LID features. In the 2017/18 fiscal year, staff will continue collections at established sites in support of the River Authority's watershed master planning. Staff activities consist of collecting baseline samples, monitoring the weather systems for storm development and duration, ensuring adequate sampling cylinders have been installed to capture the storm peak, and collecting the completed samples.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Environmental Sciences Manager	135	1	1	1
Senior Laboratory and Data Management Scientist	129	1	1	1
Senior Quality Control and Monitoring Scientist	129	1	1	1
Senior Stormwater Supervisor	129	1	1	1
Landscape Architect	125	1	1	1
Stormwater Specialist	125	1	1	1
Sustainable Landscape Ecologist	125	0	1	1
Laboratory Supervisor	122	1	1	1
Quality Control/Data Management Supervisor	122	1	1	1
Senior Environmental Investigation Specialist	122	0	1	1
Stormwater Investigation Supervisor	122	0	1	1
Watershed Monitoring Supervisor	122	1	1	1
Environmental Investigation Specialist III	121	1	0	0
Environmental Data Specialist II	120	1	2	2
Quality Assurance Specialist II	120	0	1	1
Stormwater Analyst	120	1	1	1
Stormwater Supervisor	120	1	0	0
Environmental Investigation Specialist I	119	0	1	1
Senior Water Quality Scientist	119	0	2	2
Senior Aquatic Biologist	118	2	2	2
Water Quality Planner/Data Management	118	1	0	0
Water Quality Planner/Quality Assurance Officer	118	1	0	0
Water Quality Scientist II	118	6	3	3
Environmental Investigations Coordinator	117	1	0	0
Lab Services Coordinator II	117	1	1	1
Aquatic Biologist I	116	3	3	3
Stormwater Scientist I	116	1	1	1
Water Quality Scientist I	116	3	4	4
Administrative Assistant	109	1	1	1
Administrative Support (LTE)	104	0	1	1
Part-Time Water Quality Scientist	103	1	1	1
Michael Gonzalez Intern	102	0	1	1
Intern	101	2	1	1
<i>Total Authorized Positions</i>		36	38	38



Real Estate



Real Estate

Vision and Mission

Vision: Inspire others through the acquisition and preservation of lands for public use.

Mission: Provide Real Estate support and stewardship over River Authority lands.

Department Description

The Real Estate Department provides real estate and water rights acquisition and disposition services as well as property management for the San Antonio River Authority. The department works with River Authority programs to fulfill their real estate and water rights needs using these guiding principles. Encourage the best land use in concert with River Authority enabling legislation and mission. Enhance the value of the River Authority's real property assets including maximizing the revenue. Maintain consistency with the River Authority's sustainability goals. Maintain an efficient approval process for land transactions.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Personnel Expenditures	\$440,137	\$468,011	\$481,479
Operating Expenditures	29,331	32,981	34,060
Capital Expenditures	-	-	-
<i>Total Appropriations</i>	<i>\$469,468</i>	<i>\$500,992</i>	<i>\$515,539</i>

Program Justification and Fiscal Analysis

The Real Estate FY 2017/18 Budget reflects a small increase in comparison to the FY 2016/17 estimate driven mainly by personnel expenditures. The cause of this increase is full year funding of performance pay increases awarded in September 2016. The Administrative Assistant position in Real Estate will continue to provide services to Real Estate, Watershed Engineering as well as Environmental Sciences. In FY 2017/18, each of these departments has one of three shared administrative positions fully funded in their budget.

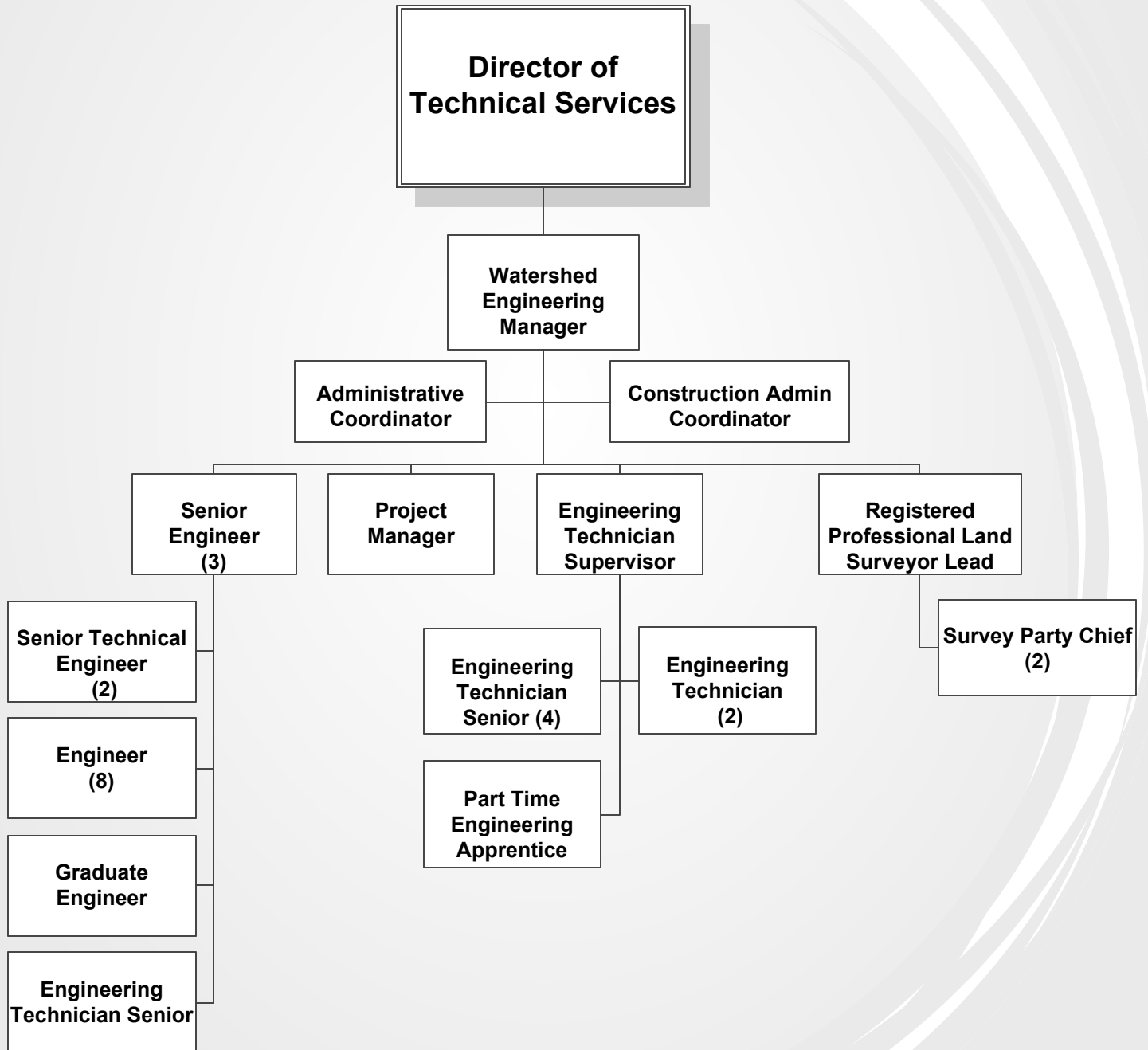
The budget for operating expenditures also increased slightly to maintain the same level of service. The level of services required varies from year to year depending on the needs of the organization in acquiring property. The budget provides sufficient funding for a higher demand for legal services should the need arise.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Real Estate Manager	133	1	1	1
Real Estate Representative III	121	2	2	2
Real Estate Representative I	117	1	1	1
Administrative Assistant	109	1	1	1
<i>Total Authorized Positions</i>		5	5	5



Watershed Engineering



Watershed Engineering

Vision and Mission

Vision: To be the preferred collaborator to develop scientific and technically innovative solutions that improve sustainability for the public

Mission: Innovative expertise in action to protect and improve our creeks and rivers

Department Description

The Watershed Engineering (WSE) Department provides quality engineering services, project management, and technical support with emphasis on excellent customer service that reflects professionalism, responsiveness and accountability as well as utilization of project management best practices. The department supports capital improvement projects, water resource planning, and all other technical programs for the San Antonio River Authority. This department provides support and resources for the design, drafting, surveying, construction administration, inspection, and technical reviews necessary for implementation of stream and riparian restoration, sustainable stormwater management, wastewater collection and treatment, reuse water management, water quality and supply, parks and recreation, and other related projects. Watershed Engineering strives to complete all projects and tasks on schedule, within budget and at a quality that meets or exceeds the customers' expectations.

Department staff is charged with developing and maintaining the River Authority's regional mapping and modeling programs within the San Antonio River Basin. The department works with cities and counties in the River Authority's jurisdiction to assist them in floodplain administration, selection and prioritization of capital projects, and development of regional models and modeling standards. As one of the leaders of the Bexar Regional Watershed Management (BRWM) partnership, the Watershed Engineering Department works with staff from the City of San Antonio, Bexar County and suburban cities to maximize sustainability and efficiency, reduce duplication, and make decisions on a holistic watershed basis. Staff in the department continually seeks opportunities to expand River Authority engineering assistance throughout the district. The Watershed Engineering Department is also supporting the Environmental Sciences Department with the development and application of water quality models. The department's focus is on delivering high quality engineering services to maintain and enhance the River Authority's image as a recognized leader in watershed management

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The Watershed Engineering Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority's organization-wide Strategic Plan.

Advance Watershed Health and Safety – *Generate recognized and sustainable improvements to the health and safety of our creeks, rivers, estuaries and bays.*

- Update and expand existing flood control and water quality models, and develop additional data for unstudied areas.
- Ensure actionable measures are included in the Lower San Antonio River (LSAR) implementation plan and the Cibolo Creek Watershed Protection Plan to reduce E.coli pollution.
- Utilize San Antonio Bay EDYS model to evaluate the feasibility of marsh restoration on the Aransas National Wildlife Refuge and strategies for increasing bay and estuary inflow.

Enhance Community Appreciation and Recreation – *Enhance community engagement and appreciation for and recreational use of our creeks and rivers.*

- Advance improvements at San Pedro Creek by completing construction through Houston Street.

Implement Watershed Solutions – *Advance and apply our expertise to influence, develop, and implement watershed solutions that balance the environmental, economic and quality of life needs of our communities.*

- Integrate the watershed master plans and enhance their use in regional policy development and project decisions through the SA Tomorrow Regional Master Plans.
- Secure approval for expansion of the Resource Conservation Partnership Program (RCPP) to restore and protect wetlands and marshes in the San Antonio Bay.

Diversify and Leverage Funding – *Diversify and leverage funding, technology, and people (employees, partners, community) to strengthen business processes and SARA service delivery.*

- Develop a replacement program for the organization's assets.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$2,549,890	\$2,512,426	\$3,005,464
Operating Expenditures	753,175	256,876	427,631
Capital Expenditures	-	-	-
Master Plan Maintenance	-	216,286	574,996
Stream Restoration Support	84,496	119,236	202,000
U.S. Geological Survey (USGS) Water Quality and Monitoring Network	374,658	337,038	260,175
<i>Total Appropriations</i>	<i>\$3,762,219</i>	<i>\$3,441,862</i>	<i>\$4,470,266</i>

Appropriations Include New Resources of \$357,854

Program Justification and Fiscal Analysis

The Watershed Engineering FY 2017/18 Budget reflects a significant increase in comparison to the FY 2016/17 estimates. This is a result of increases throughout all areas of the department budget as well as funding for new resources.

In FY 2017/18, personnel expenditures show an increase compared to the FY 2016/17 estimate for several reasons. The FY 2017/18 Budget includes full year of FY 2016/17 performance pay awarded in September 2016, as well as a full year funding for all positions. This department experienced several vacancies during FY 2016/17. In FY 2017/18, staff will increase due to the addition of one Engineer, one Engineering Technician and one Project Manager position in the department.

The Watershed Engineering Department's operating expenses are driven in large part by professional services costs related to various activities and on-going support including master plan maintenance, stream restoration support and USGS water quality and monitoring network support. These activities, described in more detail under Efforts, as well as general outside professional services make up the majority of the operating appropriations for Watershed Engineering. In FY 2017/18, there is an increase in funding with the continuation of the efforts and on-going studies.

The FY 2017/18 Budget recognizes the continued investment in the watershed master plans and water quality models. The River Authority continues the commitment by maintaining the watershed master plans which investigate the impact of the global climate change model on hydrology in the four counties in the district and revise the lower San Antonio River water quality models to address critical peer review comments and extend the model.

The FY 2017/18 Budget appropriates a total of \$357,854 for new resources. These costs consist of the addition of a downstream river basin water quality gauge (\$83,500) near Goliad which is a critical component in moving forward with the Texas Instream Flows Program. The balance (\$274,354) funds additional staffing resources which include one Engineer, one Engineering Technician and one Project Manager position. The Engineer position will focus on handling the FEMA grant funded workload and will be funded to a great extent through anticipated revenues from grant sources and partner reimbursements. The Engineering Technician will help address the current workload for construction inspection for partner and River Authority funded projects. The Project Manager position will take direct responsibility for some projects to ensure their timely completion within the available funding.

Efforts

The Watershed Engineering Department supports a number of different efforts to further the mission and vision of the River Authority. These include:

Master Plan Maintenance

With this effort, the department looks to update holistic plan documents to reflect recommendations that have been implemented and changes within the watershed. This effort maintains the relevance and timeliness of the Holistic Watershed Master Plans while also providing products and information supporting advocacy for projects, policy, and outreach to improve the health and safety of the San Antonio River Basin.

Stream Restoration Support

This activity works to identify stream restoration opportunities and needs within the San Antonio River Basin and then plan, design, and implement projects to improve the safety and function of the stream system.

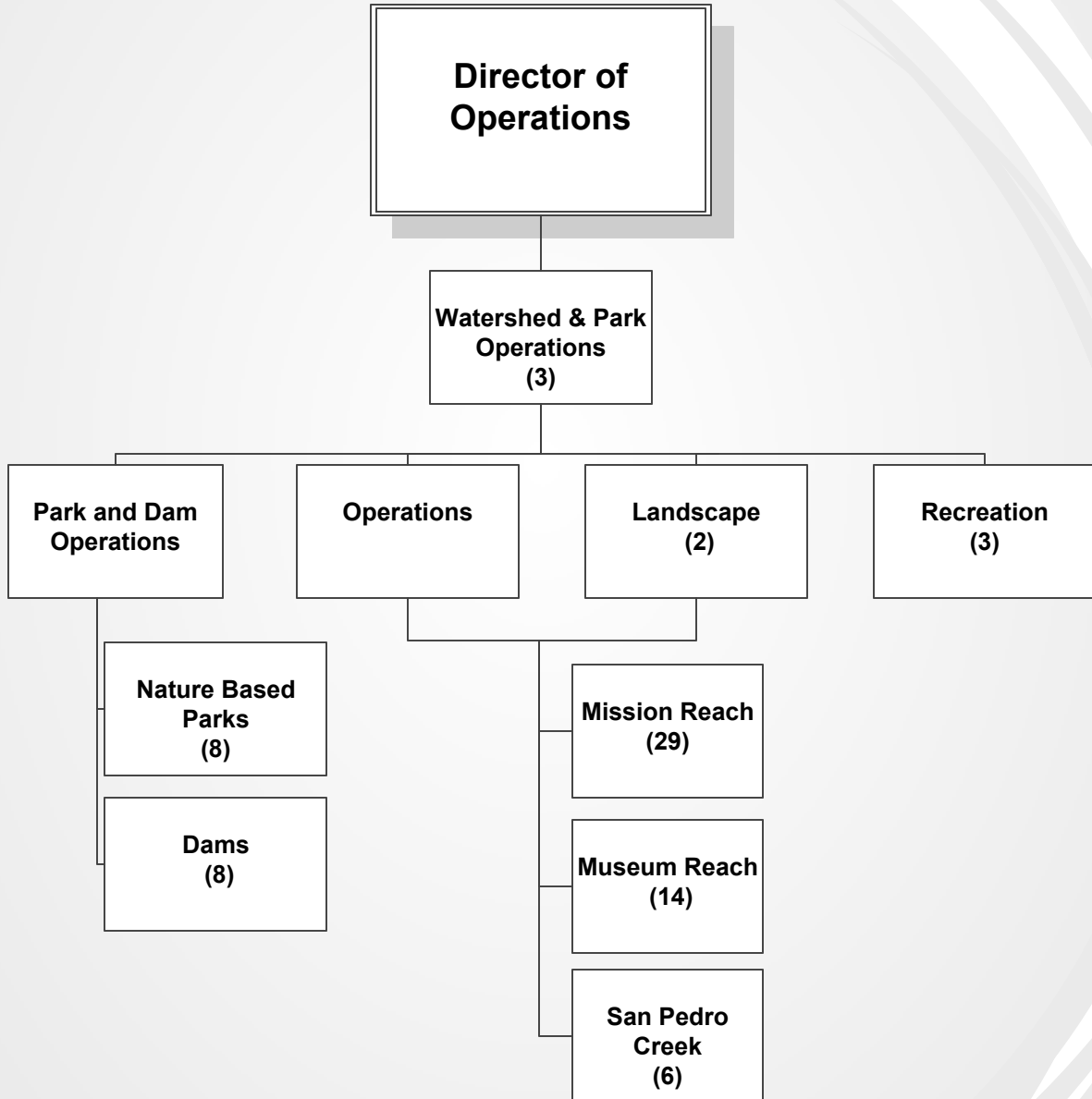
U.S. Geological Survey (USGS) Water Quality and Monitoring Network

The River Authority administers this effort to monitor normal conditions of receiving streams and collect data to document long term trends in water quality. The result is a real-time monitoring system that traces the continuity of water quality from ground water through spring emergences, through the San Antonio metropolitan area, and includes tributaries that contribute flow to the San Antonio River as it flows to the coast.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Watershed Engineering Manager	135	1	1	1
Senior Engineer	130	3	3	3
Senior Technical Engineer	129	1	1	2
Engineer	128	7	8	8
Project Manager	126	0	0	1
Registered Professional Land Surveyor Lead	124	1	1	1
Graduate Engineer	123	2	1	1
Engineer Technician Supervisor	122	1	1	1
Project Administrator	121	1	0	0
Engineering Technician Senior	119	5	5	5
Survey Party Chief	117	2	2	2
Engineering Technician	115	1	1	2
Administrative Coordinator	111	1	1	1
Construction Administration Coordinator	103	0	1	1
Engineering Apprentice	103	1	1	1
Intern	101	1	0	0
<i>Total Authorized Positions</i>		28	27	30

Watershed and Park Operations



Watershed and Park Operations

Vision and Mission

Vision: Provide world class opportunities to inspire actions.

Mission: Enriching community and watershed health through innovative service.

Department Description

The Watershed and Park Operations (WPO) Department supports the San Antonio River Authority's dam maintenance, Mission and Museum Reach maintenance (along the San Antonio River north and south of downtown San Antonio), targeted flood debris cleanup, ecosystem management, parks and river access sites programming, recreational opportunities, recreational events, and development and maintenance activities. The department is comprised of three teams: Operations, Recreation and Sustainable Landscape Management.

The Operations team maintains a high standard of operational maintenance and performance for federally-assisted flood damage reduction projects. This team delivers a valued public service through the continued implementation of the Dam Management and Safety Program. They support twenty-eight dams located in Bexar County on the Calaveras, Martinez, Leon and Salado creeks; thirteen dams in Karnes County on the Escondido Creek; and two miles of flood control channel on Nichols and Escondido Creeks within the City of Kenedy. Operations has responsibilities for an approximate nine mile reach immediately south of the central downtown district on the San Antonio River which includes the Eagleland Reach and Mission Reach of the San Antonio River Improvements Project. Along the northern stretch of the river within the Museum Reach, Operations maintains the Urban Segment and Park Segment Phase I. Additionally, this team will maintain Phase I of the San Pedro Creek project which spans one mile when it is completed. This project will take the existing concrete-lined drainage ditch into a natural creek habitat and world-class linear park.

Operations also plans, develops, operates, and manages existing and proposed parks and river access sites, provides technical assistance to internal and external partners, and provides targeted flood debris assessments and cleanups along the San Antonio River and its major tributaries within the River Authority's district. The staff also develops and operates safe, clean, and enjoyable nature-based parks and river access sites throughout the district.

The Recreation team provides regional leadership to increase public opportunities for outdoor recreation, natural resource conservation, and environmental education. The Recreation team develops and manages the policies and procedures for recreation facility usage within River Authority managed parks, develops and implements regular park programming, creates and executes special recreation events and builds relationships with other public and private entities and recreation user groups. The Recreation team also provides technical assistance in the areas of recreation concept funding, planning, and operating park projects as proposed in the *San Antonio River Basin Plan for Nature-Based Park Resources*.

The Sustainable Landscape Management team utilizes sustainable techniques for adaptive management of formal landscapes and natural areas including the Museum and Mission Reach projects, other River Authority facilities, and San Pedro Creek upon its completion. The team provides training, leadership, construction, operations, and maintenance expertise in applied ecology, ecosystem restoration management, natural resource management, and low impact development. The team provides support for projects, programs, and efforts with best management practices that involve the use of native and sustainable vegetation for wildlife habitat, water conservation, and water quality benefits.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The WPO Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority’s organization wide Strategic Plan.

Enhance Community Appreciation and Recreation – *Enhance community engagement and appreciation for and recreational use of our creeks and rivers.*

- Increase the use of our parks by community groups.
- Extend paddling trails and advance improvements at Escondido Creek Linear Parkway, Mann’s Crossing and San Pedro Creek.
- Finalize and implement San Pedro Creek operations and maintenance and funding plans.

<i>Appropriations:</i>	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$3,720,404	\$3,902,235	\$4,585,822
Operating Expenditures	2,678,223	2,840,715	2,850,948
Capital Expenditures	163,667	452,863	448,800
Flood Debris Clean-up			200,000
Museum Reach River of Lights			110,000
<i>Total Appropriations</i>	<i>\$6,562,294</i>	<i>\$7,195,813</i>	<i>\$8,195,570</i>

Appropriations Include New Resources of \$689,016

Program Justification and Fiscal Analysis

The Watershed and Park Operations (WPO) FY 2017/18 Budget reflects a significant increase in comparison to the FY 2016/17 estimate. The major factor contributing to this increase is the operations and maintenance costs associated with the newly developing San Pedro Creek; costs include salary and benefits for twelve months for four new positions as well as associated equipment and supplies for two months. The four new positions will be added to the two positions authorized and funded in FY 2016/17 in anticipation of this important new effort.

Base costs for personnel expenditures also increase in comparison to the estimate as full year funding for performance pay increases that became effective in September 2016 are included in the budget. Full year funding of all positions is also included in the FY 2017/18 Budget; vacancy savings occurred in FY 2016/17. Finally, some promotions and additional certification pays are included in the FY 2017/18 personnel expenditures appropriation.

The base budget for operating expenditures also increases in FY 2017/18 in comparison to the FY 2016/17 estimate (when the flood debris clean-up and Museum Reach River of Lights costs are included). The FY 2016/17 estimate does not anticipate fully expending all budgeted funds as the need for services depends on weather factors and rain events.

Capital expenditures decrease in FY 2017/18 in comparison to FY 2016/17. For FY 2017/18, WPO will purchase various equipment to improve the efficiency and effectiveness of the staff and, in some cases, to replace worn out equipment that has become too expensive to maintain. The equipment includes: a replacement golf cart (\$8,500); seven mule replacements (\$108,000); a replacement 60" zero turn mower (\$12,800); a replacement grasshopper mower with upgraded capacity (\$13,500); a pressure washer (\$6,000); additional eco-counters (\$12,000); two trailers (\$20,600); a front-end loader for use with existing tractor (\$11,800); an hydraulic post driver (\$6,500); an hydraulic concrete mixer (\$5,800); a sport utility boat (\$30,000); a shredder attachment for an existing tractor (\$6,500); and one SMART City bench (\$5,000).

Significant funding for new resources is included in the WPO FY 2017/18 Budget. The major factor driving this is the anticipated opening of the San Pedro Creek improvements in May 2018. In the FY 2017/18 Budget, \$614,136 is allocated for the operations and maintenance of San Pedro Creek. Four new positions are funded for 12 months totaling \$246,736. These four positions will combine with the two positions added in FY 2016/17 in anticipation of the San Pedro Creek operations and maintenance work. The four new San Pedro Creek team members will be brought on early in the fiscal year to ensure staff is ready to maintain the park upon opening. Operating expenses, totaling \$165,600, are allocated for two months of actual operations and maintenance activity. Finally, capital expenditures total \$201,800. WPO will purchase this equipment before the opening. The equipment includes: one mule (\$15,000); two mules with dump beds (\$32,000); three trucks (\$126,000); a zero turn mower (\$12,800); a power washer (\$6,000); and a dump trailer (\$10,000).

Other new resources address additional funding for contract services to assist with trash mitigation, debris cleaning, and erosion repair that typically is completed by in-house staff. Other contracted

services could include vegetation assessment, specialized aquatic herbicides and soil nutrient site assessments. \$93,000 is allocated in the new requests to increase the contracted services.

Efforts

The FY 2017/18 Budget appropriates funds for certain important activities in separate line items to ensure transparency for these important efforts. For Watershed and Park Operations, two efforts are highlighted.

Flood Debris Clean-up

This effort includes citizen and private property owner involvement in a systematic approach to locate, assess, and prioritize for removal flood debris from critical areas along regional waterways within the San Antonio River Authority's four county jurisdiction. This waterway cleanup effort has resulted in five to eight miles of waterway conveyance enhancements and three to five tons of man-made debris removal annually.

River of Lights

The Annual River of Lights Kickoff and the Deck the River Contest is a free, holiday-themed family-friendly event hosted by the San Antonio River Authority. The River Authority decorates the river and 40 trees with thousands of lights from Lexington to Josephine Street to include the Pearl turning basin. Festivities get under way on the first Saturday in December on the Museum Reach segment of the San Antonio Riverwalk. Visitors experience the spirit of the holidays with a display of holiday lights, a Santa's Wonderland on the Brooklyn Ave. Bridge, holiday music river barges, musical performances by local schools and groups including the Holiday Artisans.

Visitors can also participate in the San Antonio River Authority's Annual Deck the River Contest by visiting various businesses and organizations along the Museum Reach who compete in a Holiday themed decoration contest by decorating or lighting up their river facing facades. The public picks their favorite Deck the River Contest participant by voting on the River Authority's website.

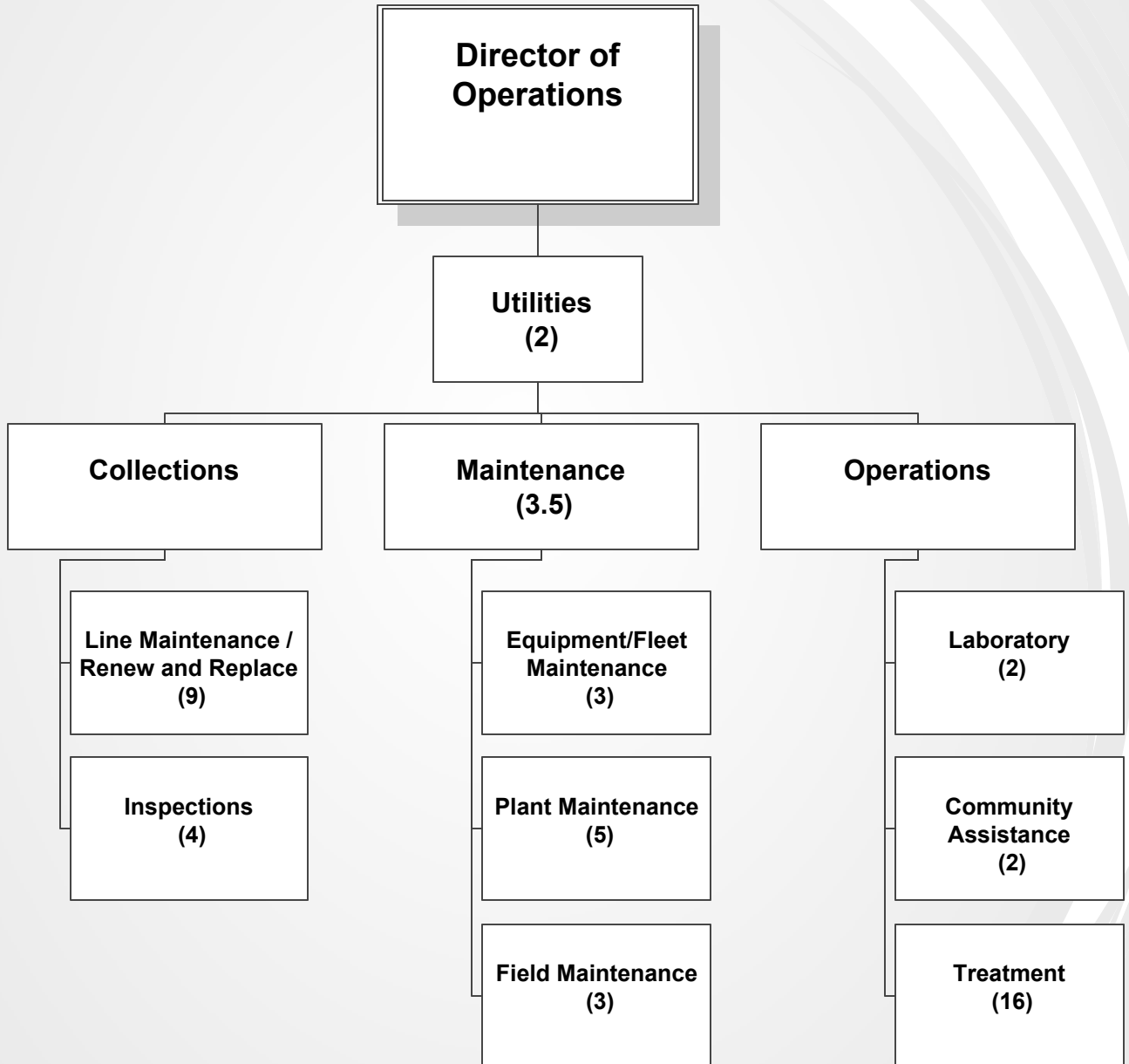
Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Watershed and Park Operations				
Manager	135	1	1	1
Senior Superintendent Operations	126	0	0	1
Riparian Landscape Superintendent	124	1	1	1
Riparian Maintenance				
Superintendent	124	1	1	1
Recreation Superintendent	124	1	1	1
Park and Dam Superintendent	124	0	0	1
Park Supervisor	122	1	0	0
Natural Resource Management				
Specialist	119	1	1	1
Dam Foreman	117	2	2	2
Park Foreman	117	0	1	1
Park Program Coordinator	117	1	1	1
Recreation Event Coordinator	117	1	1	1
Riparian Landscape Foreman	117	2	2	2
Riparian Operations Foreman	117	2	2	3
Dam Crewleader II	113	0	1	1
Park Project Coordinator	113	1	1	1
Riparian Landscape Crewleader II	113	1	2	2
Riparian Operations Crewleader II	113	0	1	1
Dam Crewleader I	112	0	3	3
Park Crewleader I	112	0	1	1
Riparian Equipment Crewleader I	112	0	2	2
Riparian Landscape Crewleader I	112	0	2	2
Riparian Operations Crewleader I	112	0	1	2
WPO Crewman Senior	111	6	0	0
Lock and Dam Technician II	110	0	1	1
Riparian Crewleader	110	5	0	0
Riparian Equipment Technician II	110	0	1	1
Riparian Landscape Technician II	110	0	3	3
Riparian Operations Technician II	110	0	3	3
Administrative Assistant	109	1	1	1
Dam Technician I	109	0	2	2
Lock and Dam Technician II	109	0	3	3
Park Specialist	109	4	0	0
Park Technician I	109	0	6	6
Riparian Equipment Technician I	109	0	1	1
Riparian Landscape Technician I	109	0	17	17

<i>Authorized Positions (continued)</i>	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Riparian Operations Technician I	109	0	4	4
Watershed Operations Crewman	109	4	0	0
Lock and Dam Operator	108	4	0	0
Riparian Field Technician	108	23	0	0
CNG Mechanic	104	1	1	1
<i>Total Authorized Positions</i>		64	71	75



Utilities



Utilities

Vision and Mission

Vision: Influencing sustainable actions through innovative water reclamation solutions.

Mission: Protecting our creeks and rivers through utilities expertise, public service, and education.

Department Description

The San Antonio River Authority (SARA) began providing wastewater utility services in 1966. Today, SARA has five permitted active wastewater treatment plants, one permitted but not operational wastewater treatment plant, and maintains 450 miles of collection line. The department currently provides wastewater service to portions of northeast San Antonio and the cities of Converse, Live Oak, Universal City, Schertz, and Elmendorf serving 32,300 customers.

The Utilities Department also provides water and wastewater related services by contract throughout the San Antonio River Basin. This includes the La Vernia Wastewater Treatment Plant (WWTP) operations, Somerset WWTP operations and collection system, First Responders Academy WWTP operations, Woodlake reuse water operations, Goliad WWTP operations, and the Goliad County Water Supply Corporation water operations. The River Authority also operates and maintains the wastewater collection system at Randolph Air Force Base (RAFB). This includes annual capital improvement projects and operations and maintenance activities for 31 miles of collection line, 378 manholes, and 10 lift stations.

Department Work Plan

2017/18 Strategic Plan Goal(s), Objectives and Action Items

The Utilities Department has staff responsibility for completing the following items incorporated under objectives that are included in the San Antonio River Authority's organization-wide Strategic Plan.

- **Advance Watershed Health and Safety** – *Generate recognized and sustainable improvements to the health and safety of our creeks, rivers, estuaries and bays.*
 - Implement efforts to reduce the infiltration and inflow treated at the River Authority's wastewater facilities.

- **Diversify and Leverage Resources** – *Diversify and leverage funding, technology, and people (employees, partners, community) to strengthen business processes and SARA service delivery.*
 - Build a business plan for growth and service delivery for the utility enterprise.
 - Develop a replacement program for the organization's assets.

Authorized Positions

	Pay Grade	FY 2015/16 Actual	FY 2016/17 Estimate	FY 2017/18 Budget
Utilities Manager	135	1	1	1
Utilities Development Superintendent	124	1	1	1
Facilities and Maintenance Superintendent*	124	1	1	0.5
Utilities Operations Superintendent	124	1	1	1
Assistant Maintenance Superintendent	120	0	0	1
Assistant WWTP Operations Superintendent	120	1	1	1
Electrician**	120	0.5	1	1
Collections Quality Control Supervisor	118	1	1	1
Community Assistance Operator	118	1	1	1
Operations Quality Control Supervisor	118	1	1	1
Collection Systems Foreman	117	2	2	2
Field Maintenance Foreman	117	1	1	0
Line Inspection Foreman	117	1	1	1
Operations Facility Foreman	117	2	2	2
Plant Maintenance Foreman	117	1	1	1
Shop Maintenance Foreman	117	1	1	1
GIS Technician III	116	1	1	1
Line Inspector III	116	0	1	1
CCTV Utilities Specialist	115	0	1	1
Equipment Operator Lead Specialist	115	1	1	1
GIS Technician II	115	1	0	0
Operations Lead Specialist	115	1	1	1
Utility Line Inspector II	115	2	0	0
GIS Technician I	114	0	1	0
Lead Lab Analyst	114	1	1	1
Operations Specialist III	114	2	3	3
Maintenance Specialist II	113	0	1	1
Operations Specialist II	113	0	2	2
Sludge Facility Operator	113	1	1	1
Collection Systems Specialist I	112	2	2	2
Equipment Specialist I	112	0	1	1
Maintenance Specialist I	112	2	2	2
Operations Specialist I	112	4	0	0
Administrative Coordinator	111	1	1	1
Electrical Apprentice	111	1	0	0
Collection Systems Technician II	110	0	2	2
Operations Technician II	110	0	4	4
Administrative Assistant	109	1	1	1
Equipment Technician	109	2	2	2
Equipment Operator Technician	109	1	0	0
Maintenance Technician	109	1	4	4
Operations Technician	109	7	3	3
Utility Collection System Technician	109	2	0	0
Utility Field Maintenance Technician	109	1	0	0
Utility Crewman	107	1	0	0
Total Authorized Positions		52.5	53	51.5

*Beginning in FY 2017/18, the Facilities and Maintenance Superintendent position's cost is split between wastewater operations (60 percent) and Facilities (40 percent).

** Through FY 2015/16, 50 percent of the Electrician position was funded in the San Antonio River Authority Wastewater System Fund. Beginning in FY 2016/17, this position was authorized and fully funded in the San Antonio River Authority Wastewater System Fund.

San Antonio River Authority
 Randolph Air Force Base Operating Fund
 Fiscal Year Ending June 30, 2018

Fund: 73

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 123,761	\$ 263,883	\$ 271,389	\$ 181,628
Total Beginning Balance	\$ 123,761	\$ 263,883	\$ 271,389	\$ 181,628
Revenue				
Intergovernmental Revenue	\$ 361,955	\$ 338,760	\$ 365,280	\$ 370,000
Reimbursements	3,192	-	-	-
Total Revenue	\$ 365,147	\$ 338,760	\$ 365,280	\$ 370,000
TOTAL AVAILABLE FUNDS	\$ 488,908	\$ 602,643	\$ 636,669	\$ 551,628
APPROPRIATIONS				
Personnel Expenditures	\$ 125,870	\$ 196,640	\$ 163,425	\$ -
Operating Expenditures	26,197	22,907	20,042	426,100
Transfers	65,452	271,574	271,574	-
TOTAL OPERATING APPROPRIATIONS	\$ 217,519	\$ 491,121	\$ 455,041	\$ 426,100
Unrestricted Ending Fund Balance	271,389	111,522	181,628	125,528
TOTAL APPROPRIATIONS	\$ 488,908	\$ 602,643	\$ 636,668	\$ 551,628

Randolph Air Force Base Operating Fund

Fund 73

Description

The Randolph Air Force Base (RAFB) Operating System Fund accounts for expenditures related to the San Antonio River Authority’s responsibilities for the RAFB wastewater collection system which provides service to customers of the RAFB installation adjacent to Universal City in Bexar County. The Utilities Department operates and maintains the River Authority owned collection system in the RAFB installation as well as completing projects annually that improve the system, mainly replacement and manhole improvements. The River Authority also provides RAFB with updated maps and plans that reflect the results of these improvements. The River Authority provides these services under a long term contract with RAFB. A separate fund accounts for the capital improvement projects completed annually.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Personnel Expenditures	\$125,870	\$163,425	\$ -
Operating Expenditures	26,197	20,042	426,100
Transfers			
Construction and Improvements	-	200,000	-
Support Fees	64,452	71,574	-
 <i>Total Appropriations</i>	 \$217,519	 \$455,041	 \$426,100

Program Justification and Fiscal Analysis

The FY 2017/18 Budget for the Randolph Air Force Base (RAFB) Operating Fund increases in comparison to the FY 2016/17 estimates. The increase in appropriations mainly comes from a new approach in budgeting personnel. Beginning in FY 2017/18, personnel expenditures and support fees will no longer be directly charged to the RAFB Operating Fund. Instead, all personnel expenditures will be expensed as labor in the operating expenditures, which allows RAFB to pay for its proportionate share of the Utilities Department’s overhead (administrative and management staff). This approach is similar to the other contracted services and better represents the allocation of staff to this important function.

San Antonio River Authority
 Salatrillo Operating Fund
 Fiscal Year Ending June 30, 2018

Fund: 71

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 633,080	\$ 729,313	\$ 927,826	\$ 906,922
Total Beginning Balance	\$ 633,080	\$ 729,313	\$ 927,826	\$ 906,922
Revenue				
Investment Earnings	\$ (1,189)	\$ 5,000	\$ 17,112	\$ 24,000
Intergovernmental Revenue	109,584	110,000	565,069	564,353
Charges for Services	3,082,953	3,039,988	3,052,784	4,017,528
Reimbursements	29,231	-	-	-
Transfers	573,254	-	54,152	-
Total Revenue	\$ 3,793,833	\$ 3,154,988	\$ 3,689,117	\$ 4,605,881
TOTAL AVAILABLE FUNDS	\$ 4,426,914	\$ 3,884,301	\$ 4,616,943	\$ 5,512,803
APPROPRIATIONS				
Personnel Expenditures	\$ 873,837	\$ 1,083,781	\$ 1,031,794	\$ 1,405,148
Operating Expenditures	843,781	1,002,234	1,016,337	1,244,191
Capital Outlay	254,679	136,875	135,313	694,600
Transfers - Construction and Improvement	800,000	650,000	360,000	-
Transfers - Support Fees	726,791	710,417	710,417	813,745
Debt Service - Reuse and First Responders	-	-	456,160	458,444
TOTAL OPERATING APPROPRIATIONS	\$ 3,499,088	\$ 3,583,307	\$ 3,710,021	\$ 4,616,128
Debt Service Reserve - Reuse and First Responders	-	-	-	227,000
Unrestricted Ending Fund Balance	927,826	95,994	701,922	669,675
Repair and Replacement Reserve	-	205,000	205,000	-
TOTAL APPROPRIATIONS	\$ 4,426,913.80	\$ 3,884,301	\$ 4,616,943	\$ 5,512,803

Salatrillo Operating Fund

Fund 71

Description

The Salatrillo Operating Fund accounts for all costs associated with operating and maintaining the Salatrillo Wastewater Treatment System which discharges into the Salatrillo Creek. This includes wholesale, retail and reuse water services. Prior to FY 2015/16, only the wholesale services were accounted for in this fund. In FY 2015/16, three funds – wholesale, retail and reuse – were consolidated to reflect the full cost of the system. The combination of these three funds’ expenditures better represents the total cost to manage this entire system. Expenditures for the plant, retail system and reuse are still tracked separately to facilitate utility rate calculations. The Salatrillo Retail and the Salatrillo Reuse Funds were closed in FY 2015/16 and are now part of the Salatrillo Operating Fund.

Wholesale wastewater service is provided to the cities of Converse, Live Oak, and Universal City. Each city maintains and operates the collection systems within its city limits. The main outfall lines from the cities are maintained by Utilities Department personnel. The wastewater from the cities is treated at the Salatrillo Wastewater Treatment Plant. The retail portion of the Salatrillo Wastewater System provides retail wastewater services to parts of the City of San Antonio and Bexar County.

The Salatrillo Reuse function provides reuse water and delivery services to Universal City as well as Alamo Community Colleges – Northeast Lakeview campus. These services are provided through contractual agreements. The reuse water is obtained from the Salatrillo Wastewater Treatment System which discharges into the Salatrillo Creek. The areas served are located in Bexar County. The Salatrillo water reuse function is also managed by Utilities Department staff and the water provided comes from the Salatrillo Wastewater Treatment Plant.

Appropriations:

	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Personnel Expenditures	\$873,837	\$1,031,794	\$1,405,148
Operating Expenditures	843,781	1,016,337	1,077,977
Capital Expenditures	254,679	135,313	694,600
Transfers			
Construction and Improvements	800,000	360,000	-
Support Fees	726,791	710,417	813,745
Debt Service – Reuse and First Responders	-	456,160	458,444
City Metering Program	-	-	128,484
Wastewater Reuse	-	-	37,730
<i>Total Appropriations</i>	<i>\$3,499,088</i>	<i>\$3,710,021</i>	<i>\$4,616,128</i>

Program Justification and Fiscal Analysis

The FY 2017/18 Budget for the Salatrillo Operating Fund increases significantly in comparison to the FY 2016/17 estimate for several reasons. A large portion of the increase results from continuing to refine the cost sharing approach between the San Antonio River Authority (SARA) Wastewater System and the Salatrillo Wastewater System. For personnel expenditures (including salary and benefits as well as operating expenditures directly related to personnel), the Salatrillo system is budgeted to fund thirty-five percent of the total non-designated operating personnel (42 positions) and fifty percent of the administrative personnel (6 positions) costs for the utilities. Although all positions are authorized in the San Antonio River Authority Wastewater Systems Operating Fund, this system absorbs a net cost of sixty-five percent of the total cost. Additionally, in FY 2017/18, personnel expenditures increase due to full year funding of performance pay increases awarded in September 2016 and some promotions of staff.

Operating expenditures also increase in FY 2017/18 in comparison to the FY 2016/17 estimates, mainly due to the flow metering program, discussed below, and a cost allocation change between the SARA Wastewater Systems Operating Fund and the Salatrillo Operating Fund. Through FY 2015/16, Salatrillo funded approximately thirty-three percent of small equipment purchases that benefited both SARA and Salatrillo systems. In FY 2016/17, a more deliberate approach for allocating shared costs was taken. In FY 2017/18, this approach will continue and all operating and capital expenditures that benefit both systems equally will be split evenly; however items that are tied to a single plant will still be fully funded in the corresponding system. Additionally, general and administrative operating expenditures will be budgeted for the Salatrillo Wastewater System to fund at fifty percent, tracking the personnel cost allocation. This approach results in an increase of operating expenditures, but is more reflective of the actual costs of operating and maintaining the system.

The City Metering Project was completed in FY 2016/17. In FY 2017/18, the metering program will continue as part of the regular operations and maintenance activity of the Salatrillo Wastewater System and is fully funded in the operating expenditures. This results in an increase to the operating expenditures compared to the FY 2016/17 estimate because previous expenditures were in the Salatrillo Construction and Improvements Fund.

Funding for capital expenditure appropriations increases significantly in comparison to the FY 2016/17 estimate. In FY 2017/18, costs for equipment that are shared between the Salatrillo and San Antonio River Authority Wastewater system will not be split. Instead, each fund is budgeted for its proportionate share of the total equipment costs based on the percentage allocations discussed above. The equipment being purchased and plant infrastructure improvements being accomplished are shown in the table below.

The FY 2017/18 Budget does not include a transfer to the Salatrillo Construction and Improvements Fund, a reduction from FY 2016/17.

Efforts

The FY 2017/18 Budget appropriates funds for certain important activities in separate line items to ensure transparency for these important efforts. For the Salatrillo Wastewater System, two efforts are highlighted.

City Metering Program

The River Authority established meters to measure the actual flows coming from each of the cities of Universal City, Live Oak and Converse served by the Salatrillo Wastewater System. The meters show not only flow rates but also help to identify any inflow or infiltration problems coming from the collection infrastructure of each city as well as River Authority facilities. This information will be used to help identify and address these inflow and infiltration issues.

Sufficient rain events occurred to begin measuring inflow and infiltration in FY 2014/15. In FY 2015/16, the River Authority worked with the cities of Universal City, Live Oak and Converse to share the data generated by the meters and during FY 2016/17, the River Authority continued to monitor meters to show any inflow or infiltration problems coming from these cities and River Authority facilities and worked with each city to develop a plan for system improvements to reduce inflow and infiltration. The data collected from the City Metering Project is currently being used by the Salatrillo and Martinez Sewershed Models project.

The City Metering project was completed in FY 2016/17. Going forward, the metering program will continue as part of the regular operations and maintenance of the Salatrillo Wastewater System. In FY 2017/18, the City Metering Program is budgeted in the Salatrillo Operating Fund.

Wastewater Reuse

The River Authority is coordinating with other entities to supply reuse water and alleviate the use of Edwards Aquifer water. The River Authority currently works with Alamo Community Colleges and Universal City to supply reuse water from the Martinez I and Salatrillo systems. As more entities show an interest in using reuse water, the River Authority will ensure there are adequate flows in the streams before agreeing to supply reuse water.

<u>Equipment</u>	<u>Cost</u>	<u>Description</u>
Vactor Truck	\$420,000	Replace 2006 vactor truck due to age and continuous equipment repairs (\$450,000 cost less \$30,000 trade in).
Replace Gear Boxes	180,000	Replace three gear boxes, two at Salatrillo lower and one at Salatrillo upper due to age and continuous equipment repairs.
Replacement Vehicle – purchasing 4x4 crew cab truck	40,000	Vehicle being replaced due to mileage, age and condition.
Replacement Vehicle – purchasing 4x4 crew cab truck	40,000	Vehicle being replaced due to mileage, age and condition.
Tommy Lift Gate	7,000	Purchase a new lift gate to be installed on a truck to load heavy objects for transport. There is currently not another efficient and safe lift option.
Steam Scrubber for Lab	7,600	Replace scrubber used for cleaning sampling equipment for lab use.
<i>Total</i>	<i>\$694,600</i>	

San Antonio River Authority
 Salatrillo Retail Fund
 Fiscal Year Ending June 30, 2018

Fund: 72

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 955,727	\$ -	\$ -	\$ -
Total Beginning Balance	\$ 955,727	\$ -	\$ -	\$ -
Revenue				
Investment Earnings	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ -	\$ -	\$ -	\$ -
TOTAL AVAILABLE FUNDS	\$ 955,727	\$ -	\$ -	\$ -
APPROPRIATIONS				
Transfers	\$ 955,727	\$ -	\$ -	\$ -
TOTAL OPERATING APPROPRIATIONS	\$ 955,727	\$ -	\$ -	\$ -
Unrestricted Ending Fund Balance	-	-	-	-
TOTAL APPROPRIATIONS	\$ 955,727	\$ -	\$ -	\$ -

Salatrillo Retail Fund

Fund 72

Description

The San Antonio River Authority Salatrillo Retail System fund was managed by the Utilities Department. The Utilities Department provides retail wastewater services to parts of the City of San Antonio and Bexar County through the Salatrillo Retail Wastewater System. Expenses budgeted and accounted for here funded the expenses related to the Salatrillo Retail Wastewater Collection System which provides service to customers not located in the city limits of Live Oak, Converse, and Universal City.

These customers are served by the Salatrillo Wastewater Treatment Plant. As of FY 2015/16, the costs associated with the retail collection system operations and maintenance are reflected in the Salatrillo Operating Fund. This better represents the total cost to manage this system. Retail system expenditures are still tracked separately to facilitate utility rate calculations.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Transfers	\$955,727	\$ -	\$ -
<i>Total Appropriations</i>	<i>\$955,727</i>	<i>\$ -</i>	<i>\$ -</i>

Program Justification and Fiscal Analysis

As stated, in FY 2015/16, the Salatrillo Retail Fund was closed. All remaining funds were transferred to the Salatrillo Operating Fund. All expenses related to the retail system's maintenance and operation are budgeted in the Salatrillo Operating Fund for FY 2017/18.

San Antonio River Authority
 Salatrillo Reuse Fund
 Fiscal Year Ending June 30, 2018

Fund: 76

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
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Beginning Balance

Undesignated Funds	\$ 68,310	\$ -	\$ -	\$ -
Total Beginning Balance	\$ 68,310	\$ -	\$ -	\$ -

Revenue

Intergovernmental Revenue	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ -	\$ -	\$ -	\$ -

TOTAL AVAILABLE FUNDS	\$ 68,310	\$ -	\$ -	\$ -
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APPROPRIATIONS

Transfers	\$ 68,310	\$ -	\$ -	\$ -
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TOTAL OPERATING APPROPRIATIONS	\$ 68,310	\$ -	\$ -	\$ -
Unrestricted Ending Fund Balance	-	-	-	-
TOTAL APPROPRIATIONS	\$ 68,310	\$ -	\$ -	\$ -

Salatrillo Reuse Fund

Fund 76

Description

The Salatrillo Reuse Fund of the Utilities Department accounted for costs associated with providing reuse water and delivery services to Universal City as well as Alamo Community Colleges – Northeast Lakeview campus. These services are provided through contractual agreements. The reuse water is obtained from the Salatrillo Wastewater Treatment System which discharges into the Salatrillo Creek. The main reuse line is maintained by Utilities Department personnel. The areas served are located in Bexar County.

Beginning in FY 2015/16, all costs associated with the reuse system operations and maintenance are budgeted in the Salatrillo Operating Fund. This better represents the total cost to manage this system including the reuse function. Expenditures for the plant, retail system and reuse are still tracked separately to facilitate utility rate calculations.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Transfers	\$68,310	\$ -	\$ -
<i>Total Appropriations</i>	<i>\$68,310</i>	<i>\$ -</i>	<i>\$ -</i>

Program Justification and Fiscal Analysis

As stated, in FY 2015/16, the Salatrillo Reuse Fund was closed and all remaining funds were transferred to the Salatrillo Operating Fund. All expenses related to these agreements are budgeted in the Salatrillo Operating Fund.

San Antonio River Authority
SARA Wastewater Systems Operating Fund
Fiscal Year Ending June 30, 2018

Fund: 70

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 4,393,780	\$ 4,250,132	\$ 4,259,898	\$ 3,803,620
Total Beginning Balance	\$ 4,393,780	\$ 4,250,132	\$ 4,259,898	\$ 3,803,620
Revenue				
Investment Earnings	40,411	30,000	28,035	35,000
Intergovernmental Revenue	643,742	579,995	641,815	725,000
Charges for Services	7,519,420	7,999,062	7,943,515	8,847,888
Miscellaneous	199,828	50,000	130,916	75,000
Reimbursements	368,170	-	-	-
Transfers	2,130,681	-	-	-
Total Revenue	\$ 10,902,252	\$ 8,659,057	\$ 8,744,281	\$ 9,682,888
TOTAL AVAILABLE FUNDS	\$ 15,296,032	\$ 12,909,189	\$ 13,004,179	\$ 13,486,509

APPROPRIATIONS

Personnel Expenditures	\$ 2,662,351	\$ 2,617,990	\$ 2,643,482	\$ 2,621,946
Operating Expenditures	1,999,111	2,237,794	2,206,093	\$ 2,261,483
Capital Outlay	357,909	306,875	265,293	\$ 331,500
Debt Service - Revenue Bonds	1,167,375	1,165,125	1,165,125	\$ 1,167,450
Transfers - Construction and Improvements	3,340,000	1,770,000	1,770,000	\$ 2,300,000
Transfers - Support Fees	1,509,388	1,620,219	1,614,920	\$ 1,488,886
Reimbursements	-	(90,000)	(464,354)	\$ (667,000)
TOTAL OPERATING APPROPRIATIONS	\$ 11,036,134	\$ 9,628,003	\$ 9,200,559	\$ 9,504,265
Debt Service Reserve	1,381,395	1,381,395	1,381,395	1,959,585
Unrestricted Ending Fund Balance	2,878,503	1,629,791	2,152,225	1,512,658
Repair and Replacement Reserve	-	270,000	270,000	510,000
TOTAL APPROPRIATIONS	\$ 15,296,032	\$ 12,909,189	\$ 13,004,179	\$ 13,486,509

San Antonio River Authority Wastewater Systems Operating Fund

Fund 70

Description

The San Antonio River Authority (SARA) Wastewater Systems Operating Fund accounts for cost associated with the SARA wastewater system. This system has several plants as well as a collections system, all of which are operated and maintained by Utility Department staff. The plants include: the Upper Martinez Wastewater System, the Martinez II Wastewater System, the Martinez III Wastewater System, and the Highway 181 Wastewater System. The new Martinez IV plant is currently under design. These systems primarily serve residents and the business community located within portions of eastern/northeast Bexar County.

Through FY 2014/15, the utility had multiple funds that accounted for very specific services, all of which are provided by Utility Department staff. In FY 2015/16, these services were combined into the San Antonio River Authority Wastewater Systems Operating Fund. These costs were previously in the Utilities Operating and Maintenance Fund. The expenses that moved into this fund relate to various contracts the San Antonio River Authority has to provide water and wastewater related services. The areas served by these agreements are located in Bexar, Wilson, and Goliad counties.

Appropriations:

	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Personnel Expenditures	\$2,662,351	\$2,643,482	\$2,570,207
Operating Expenditures	1,999,111	2,206,093	1,786,073
Capital Expenditures	357,909	65,293	331,500
Transfers			
Debt Service	1,167,375	1,165,125	1,167,450
Construction and Improvements	3,340,000	1,770,000	2,300,000
Support Fees	1,509,388	1,614,920	1,488,886
Reimbursements	-	(464,354)	(667,000)
Contracted Services	-	-	527,149
Total Appropriations	\$11,036,134	\$9,200,559	\$9,504,265

Program Justification and Fiscal Analysis

The San Antonio River Authority (SARA) Wastewater Systems Operating budget reflects an increase in comparison to the FY 2016/17 estimates. The increase is driven in large part by an increase in the transfer from the wastewater operating budget to the SARA Wastewater Systems Construction and Improvement Fund. The FY 2017/18 transfer of \$2,300,000 reflects the amount available in the operating fund for this transfer. In FY 2016/17, available operating reserves were included in the transfer of \$1,770,000.

Personnel expenditures in FY 2017/18 show a decrease for the SARA Wastewater Systems Operating Fund in comparison to the FY 2016/17 estimates. This occurs due to offsetting factors. In FY 2017/18, personnel expenditures increase due to full year funding of performance pay increases awarded in September 2016, some promotions of staff and additional certification pay. These increases are more than offset by a change in budgeted personnel expenditures between this fund and the Salatrillo Operating Fund. For personnel expenditures (including salary and benefits as well as operating expenditures directly related to personnel), the SARA Wastewater System is budgeted to fund sixty-five percent of the total non-designated operating personnel (42 positions) and fifty percent of the administrative personnel (6 positions) costs for the utilities. All positions are authorized in this San Antonio River Authority Wastewater Systems Operating Fund.

Capital expenditure appropriations increase in comparison to the FY 2016/17 estimate. In FY 2017/18, costs for equipment that are shared between the Salatrillo and San Antonio River Authority Wastewater system will not be split. Instead, each fund is budgeted for its proportionate share of the total equipment costs based on the percentage allocations discussed above. The equipment being purchased and plant infrastructure improvements being accomplished are shown in the table below.

Also in FY 2017/18, the contribution by this operations fund into the San Antonio River Authority Wastewater System Construction and Improvement Fund increases – from \$1,770,000 for FY 2016/17 to \$2,300,000 for FY 2017/18. This cash contribution will be used both next year and in future years to complete needed improvements in the system, including expansion of wastewater treatment facilities. The funding for FY 2017/18 represents the amount the operating fund has available to contribute towards future projects.

<u>Equipment</u>	<u>Cost</u>	<u>Description</u>
Belt Press Replacement	\$60,000	Replacement belt press at Martinez II wastewater treatment plant due to age and continuous repairs.
Polymer System Replacement	100,000	Replace polymer system at Martinez II wastewater treatment plant due to age and continuous repairs.
Replacement Vehicle – purchasing 4x4 crew cab truck	45,000	Vehicle being replaced due to mileage, age and condition.
Replacement Vehicle – purchasing 4x4 crew cab truck	45,000	Vehicle being replaced due to mileage, age and condition.
Replacement Vehicle – purchasing 4x4 crew cab truck	36,000	Vehicle being replaced due to mileage, age and condition. The replacement will also add more capacity for people, tools, and towing. Cost is net of \$4,000 trade-in.
Tire Balancer and Changer	15,200	Replacement of the tire balancer and changer as the hydraulics do not work properly on the current equipment.
30 Horsepower Tractor	15,300	Current tractor is past its useful life. It is used for spraying and using other small implements in and around wastewater treatment plants in tight quarters. The current tractor has problems with oil and injection pump leaks.
Utility Vehicle – gas powered	15,000	A new utility vehicle to use on the outfalls. This will improve operational efficiency by allowing staff to quickly assess outfall lines.
Total	\$331,500	

Efforts

The FY 2017/18 Budget appropriates funds for certain important activities in separate line items to ensure transparency for these important efforts. For the SARA Wastewater System, two efforts are highlighted.

Contracted Services

The River Authority is contracted to operate and maintain various water and wastewater plants in Bexar, Wilson, and Goliad counties. Contracts include the La Vernia Wastewater Treatment Plant (WWTP) operations, Somerset WWTP operations and collections system, First Responders Academy WWTP operations, Woodlake reuse water operations, Goliad WWTP operations, and the Goliad County Water Supply Corporation water operations. Utility Department staff provides services to all these operations and is fully reimbursed for staff time and materials.

San Antonio River Authority
San Antonio River Authority Water Systems Fund
Fiscal Year Ending June 30, 2018

Fund: 74

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 66,102	\$ -	\$ -	\$ -
Total Beginning Balance	\$ 66,102	\$ -	\$ -	\$ -
Revenue				
Charges for Services	\$ 130,932	\$ -	\$ -	\$ -
Miscellaneous	450,000	-	-	-
Reimbursements	118	-	-	-
Total Revenue	\$ 581,050	\$ -	\$ -	\$ -
TOTAL AVAILABLE FUNDS	\$ 647,152	\$ -	\$ -	\$ -
APPROPRIATIONS				
Personnel Expenditures	\$ 41,252	\$ -	\$ -	\$ -
Operating Expenditures	58,213	-	-	-
Transfers	547,687	-	-	-
TOTAL OPERATING APPROPRIATIONS	\$ 647,152	\$ -	\$ -	\$ -
Operating Reserve	-	-	-	-
TOTAL APPROPRIATIONS	\$ 647,152	\$ -	\$ -	\$ -

San Antonio River Authority Water Systems Fund

Fund 74

Description

The San Antonio River Authority Water Systems Fund was used to account for the costs related to operation and maintenance of two water treatment systems: Seven Oaks and Creekwood. The Utilities Department provided water services to residential and business customers located outside the jurisdiction of any incorporated city but within the River Authority's district. The Utilities Department operated and maintained these River Authority owned water systems. This system was sold by the River Authority to a private purveyor in March 2016. Therefore, this fund was closed out in FY 2015/16.

Appropriations:

	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Personnel Expenditures	\$ 41,252	\$ -	\$ -
Operating Expenditures	58,213	-	-
Transfers	547,687	-	-
<i>Total Appropriations</i>	<i>\$647,152</i>	<i>\$ -</i>	<i>\$ -</i>

Program Justification and Fiscal Analysis

The water system was sold in March 2016 to a private purveyor. The San Antonio River Authority Wastewater System funded the original purchase of the water system. Therefore proceeds of the sale and all other remaining amounts in the San Antonio River Authority Water System Fund (unexpended revenue) were transferred to the wastewater system fund in FY 2015/16 to close out this fund.

San Antonio River Authority
 Utility Operations and Maintenance Fund
 Fiscal Year Ending June 30, 2018

Fund: 75

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 177,949	\$ -	\$ -	\$ -
Total Beginning Balance	\$ 177,949	\$ -	\$ -	\$ -
Revenue				
Intergovernmental Revenue	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ -	\$ -	\$ -	\$ -
TOTAL AVAILABLE FUNDS	\$ 177,949	\$ -	\$ -	\$ -
APPROPRIATIONS				
Transfers	\$ 177,949	\$ -	\$ -	\$ -
TOTAL OPERATING APPROPRIATIONS	\$ 177,949	\$ -	\$ -	\$ -
Operating Reserve	-	-	-	-
TOTAL APPROPRIATIONS	\$ 177,949	\$ -	\$ -	\$ -

Utilities Operations and Maintenance Fund

Fund 75

Department Description

The Utilities Operations and Maintenance Fund accounted for costs associated with various contracts the San Antonio River Authority has to provide water and wastewater related services. The contract include services to: the La Vernia Wastewater Treatment Plant (WWTP) operations, Somerset WWTP operations and collection system, First Responders Academy WWTP operations, Woodlake reuse water operations, Goliad WWTP operations, and the Goliad County Water Supply Corporation water operations. The areas served by these operations and maintenance agreement are located in Bexar, Wilson, and Goliad counties.

This fund was closed in FY 2015/16. Costs related to these agreements are budgeted and expended in the San Antonio River Authority Wastewater Systems Operating Funds.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Transfers	\$177,949	\$ -	\$ -
<i>Total Appropriations</i>	<i>\$177,949</i>	<i>\$ -</i>	<i>\$ -</i>

Program Justification and Fiscal Analysis

As stated, in FY 2015/16, the Utilities Operations and Maintenance Fund was closed with all remaining funds being transferred to the San Antonio River Authority Wastewater System Operating Fund. All expenses related to these agreements are budgeted in that fund.



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

San Antonio River Authority
 Edwards Water Acquisition/RWRDG Fund
 Fiscal Year Ending June 30, 2018

Fund: 31

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 70,324	\$ 70,324	\$ 68,774	\$ 110,784
Total Beginning Balance	\$ 70,324	\$ 70,324	\$ 68,774	\$ 110,784
Revenue				
Investment Earnings	\$ 170	\$ 100	\$ 820	\$ 1,000
Intergovernmental Revenue	15,374	630,286	655,090	297,609
Charges For Services	1,200	1,100	1,100	1,100
Total Revenue	\$ 16,744	\$ 631,486	\$ 657,010	\$ 299,709
TOTAL AVAILABLE FUNDS	\$ 87,068	\$ 701,810	\$ 725,784	\$ 410,493
APPROPRIATIONS				
Operating Expenditures	\$ 18,294	\$ -	\$ -	\$ -
Administrative Expenses	-	26,200	5,000	8,000
Lease and Purchase Agreements	-	605,286	610,000	290,432
TOTAL OPERATING APPROPRIATIONS	\$ 18,294	\$ 631,486	\$ 615,000	\$ 298,432
Unrestricted Ending Fund Balance	68,774	70,324	110,784	112,061
TOTAL APPROPRIATIONS	\$ 87,068	\$ 701,810	\$ 725,784	\$ 410,493

Edwards Water Acquisition/Regional Water Resources Development Group Fund

Fund 31

Description

The Regional Water Resources Development Group works to collectively purchase Edwards Aquifer water for the area. Revenue comes from water lease and purchase payments from entities that are using the water rights. Additional operating revenue comes from an administrative fee, which is a percentage of the water lease or purchase amount, along with an annual participation fee. Expenditures relate to water rights acquisition and administrative services provided by San Antonio River Authority staff as well as some outside resources that work to together to manage the water rights program.

Appropriations:

	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Operating Expenditures	\$18,294	\$ -	\$ -
Administrative Expenses	-	5,000	8,000
Lease and Purchase Agreements	-	610,000	290,432
<i>Total Appropriations</i>	<i>\$18,294</i>	<i>\$615,000</i>	<i>\$298,432</i>

Program Justification and Fiscal Analysis

The FY 2017/18 Budget funds the costs associated with both the water rights acquisition and administration of this important water rights program. The budget increased significantly in FY 2016/17 because in prior fiscal years both expenditures and revenues for water rights acquisition were accounted for in another fund. In FY 2017/18, the water rights acquisition revenue and expenditures are again accounted for here in this fund, however at a lower level than FY 2016/17. Administrative costs include River Authority staff support for this program as well as legal services and miscellaneous incidental expenses.

San Antonio River Authority
 Flood Control Tax Fund
 Fiscal Year Ending June 30, 2018

Fund: 20

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 166,287	\$ 170,203	\$ 166,287	\$ -
Total Beginning Balance	\$ 166,287	\$ 170,203	\$ 166,287	\$ -
Revenue				
Investment Earnings	\$ -	\$ -	\$ -	\$ -
Total Revenue	\$ -	\$ -	\$ -	\$ -
TOTAL AVAILABLE FUNDS	\$ 166,287	\$ 170,203	\$ 166,287	\$ -
APPROPRIATIONS				
Transfers	\$ -	\$ 170,203	\$ 166,287	\$ -
TOTAL OPERATING APPROPRIATIONS	\$ -	\$ 170,203	\$ 166,287	\$ -
Unrestricted Ending Fund Balance	166,287	-	-	-
TOTAL APPROPRIATIONS	\$ 166,287	\$ 170,203	\$ 166,287	\$ -

Flood Control Tax Fund

Fund 20

Description

Through FY 2014/15, flood control tax revenue collected by Bexar County to support debt issued by the San Antonio River Authority for Bexar County flood control projects was deposited into the Flood Control Tax Fund. The revenue supported the annual debt service requirements (principal and interest) for debt issued by the River Authority prior to 2007 to fund construction of flood control improvements. Since 2007, Bexar County has issued the debt and used the proceeds to fund projects the River Authority manages on behalf of Bexar County.

The flood control tax revenue was then transferred to the River Authority's Debt Service Fund to pay the annual debt service requirements. This fund was closed in FY 2016/17 and the flood control tax revenues are now deposited directly into the River Authority's Debt Service Fund to pay the associated principal and interest.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Transfers	\$ -	\$166,287	\$ -
Total Appropriations	\$ -	\$166,287	\$ -

Program Justification and Fiscal Analysis

Prior to FY 2015/16, the Flood Control Tax Fund transferred funds to the Debt Service Fund to pay the principal and interest associated with debt issued by the River Authority to fund flood control projects on behalf of Bexar County. This fund closed in FY 2016/17 with a transfer of all remaining funds to the Debt Service Fund. The flood control tax proceeds are now deposited directly into the Debt Service Fund to pay the principal and interest associated with the flood control projects funded by this revenue source.

San Antonio River Authority
Grants Fund
Fiscal Year Ending June 30, 2018

Fund: 36

Available Funds	Budgeted Project Revenue/ Expenditures	Activity as of 06/31/2016	Activity As of 03/31/2017	Remaining Available Funds
Revenue				
Intergovernmental Revenue	\$ 17,762,908	\$ 8,477,213	\$ 2,759,197	\$ 6,526,498
Total Revenue	\$ 17,762,908	\$ 8,477,213	\$ 2,759,197	\$ 6,526,498
TOTAL AVAILABLE FUNDS	\$ 17,762,908	\$ 8,477,213	\$ 2,759,197	\$ 6,526,498

APPROPRIATIONS

AACOG	\$ 14,160	\$ -	\$ 7,080	\$ 7,080
Binz Engleman, Martinez Creek and Escondido Creek Dam Rehabilitations - TSSWCB	794,000	520,530	135,164	138,306
Binz Engleman, Martinez Creek and Escondido Creek Dam Rehabilitations - NRCS	7,524,500	3,364,322	986,029	3,174,149
Clean Rivers Program 2015	395,540	184,717	186,763	24,060
CTP Business Plan	60,000	-	4,059	55,941
CTP Risk Map Cibolo Creek	600,000	19,895	23,261	556,844
CTP Risk Map Lower San Antonio River	617,000	1,245	47,852	567,903
CTP Risk Map Upper Medina River Watershed	600,000	128,197	279,337	192,466
CTP Risk Map Upper San Antonio River	712,500	473,581	100,333	138,586
CTP Risk Map Upper San Antonio River - Phase 2	322,000	-	119	321,881
Enviromental Flows Validation	151,000	-	66,953	84,047
Floresville City Park	12,231	12,231	-	-
FEMA Letter of Map Revision - 2014	234,500	167,014	67,486	-
FEMA Letter of Map Revision - 2015	234,500	59,563	80,331	94,606
FEMA Letter of Map Revision - 2016	234,500	-	-	234,500
Lower Leon Creek Use Attainability Analysis	236,000	220,337	6,226	9,437
Mid/Lower Cibolo Creek Watershed Protection Plan	200,000	-	-	200,000
Parita Creek Dam Rehabilitation - NRCS	3,375,000	2,930,105	306,446	138,449
River Road Stream Restoration	550,001	-	-	550,001
SAHA Wheatley Courts	395,476	395,476	-	-
Stormwater Retrofit BMPs - TCEQ	500,000	-	461,758	38,242

TOTAL OPERATING APPROPRIATIONS	\$ 17,762,908	\$ 8,477,213	\$ 2,759,197	\$ 6,526,498
TOTAL APPROPRIATIONS	\$ 17,762,908	\$ 8,477,213	\$ 2,759,197	\$ 6,526,498

Description

The San Antonio River Authority continually looks for grant opportunities that can provide funding for needed programs, projects and efforts that help further the mission of the River Authority. The River Authority has received local, state and federal grant funding from various sources including the Federal Emergency Management Agency (FEMA), the National Resource Conservation Service, the Clean Rivers Program (Texas Commission on Environmental Quality), Bexar County, the San Antonio Housing Authority, VIA Metropolitan Transportation and other agencies.

Beginning with FY 2015/16, all grant funds that support projects and efforts are accounted for in this fund. Prior to FY 2015/16, the River Authority had four separate grant funds: Local Grant Fund (renamed to Grants Fund in FY 2015/16), State Grant Fund, Federal Grant Fund and the Clean Rivers Program Fund. Combining these funds provides the River Authority, its customers and constituents the ability to see the impact of all grant funding in one place. Each grant is accounted for separately to ensure continued compliance with all granting agency requirements.

Program Justification and Fiscal Analysis

In FY 2017/18, all River Authority grants are budgeted and expensed in the Grants Fund.

Multiple local, state and federal agencies have awarded the River Authority grant funding. These funds accomplish various activities and construction projects that help improve the water quality and flood control capabilities for the San Antonio River and its tributaries. Grant funding totals \$17,762,908. A major portion of this funding is for dam improvements for four structures in the watershed. Funding comes from the National Resource Conservation Service as well as the Texas State Water and Soil Conservation Board totaling \$11,693,500 of this budget. FEMA (Federal Emergency Management Agency) has an allocation of \$3,615,000 budgeted funds to support the River Authority's Letter of Map Revision efforts that document current flood areas as well as the River Authority's Risk MAP efforts in the Upper San Antonio River, Lower San Antonio, Medina River and Cibolo Creek.

The following describes each grant program in this fund.

Projects**Alamo Area Council of Governments (AACOG) – Regional Solid Waste Grant**

AACOG has received solid waste grant funds from the Texas Commission on Environmental Quality (TCEQ) for solid waste implementation programs. AACOG has awarded the River Authority funding in the amount of \$14,160 for efforts that provide a direct and measurable effect on reducing the amount of waste going into regional landfills by diverting various materials from the municipal solid waste stream for beneficial use, or by reducing waste generation at the source.

The River Authority is using this funding to obtain cameras and strategically place them in areas that will help improve the recovery of landscape resources by halting illegal dumping.

Binz Engleman Dam (Martinez 1), Martinez Creek Dam (Martinez 2) and Escondido Creek Dam (Martinez 3) Rehabilitation

This project improves Binz Engleman Dam (Martinez 1), Martinez Creek Dam (Martinez 2) and Escondido Creek Dam (Martinez 3) to current Texas Commission on Environmental Quality (TCEQ) standards. Improvements primarily include earthwork to increase the height of the dams and to improve the auxiliary spillways. According to the project plan and the operation and maintenance agreement for the rehabilitation project, the San Antonio River Authority (River Authority) is responsible for the operation and maintenance of the dams to assure they function as designed and constructed. Total project funding is \$8,318,500. This project is funded by the Texas State Soil and Water Conservation Board (TSSWCB) up to 14 percent (with a maximum of \$794,000); the Natural Resources Conservation Service (NRCS) funds 65 percent; and the remainder is funded by Bexar County. The design is being administered through the River Authority. River Authority staff also provides construction administration and project management services through construction.

Construction of the improvements at all three dams is expected to be completed in FY 2017/18.

Clean Rivers Programs

The Texas Clean Rivers Program (CRP) funded by the Texas Commission on Environmental Quality (TCEQ) at \$395,540, with additional funding support from the River Authority, serves to protect and develop a greater understanding of water quality conditions in each sub-watershed in the San Antonio River Basin. Data collected under the CRP is used in the Texas Commission on Environmental Quality Integrated Reports to evaluate surface water quality and provide resource managers with tools for making informed water quality decisions, helping to preserve and protect the creeks and rivers.

The CRP and the River Authority's Stream Monitoring activities utilize a watershed approach to analyze and manage data gathered from surface water samples collected throughout the basin. This information is used to assess current water quality conditions and long-term trends and is shared with the community and stakeholders. The CRP has been ongoing since 1992.

In FY 2017/18, the CRP will collect, analyze, and manage surface water quality data collected throughout the San Antonio River basin.

Cooperating Technical Partners (CTP) Business Plan, Risk MAP Upper San Antonio River (Phases I and II), Lower San Antonio River, Upper Medina River and Cibolo Creek

The Federal Emergency Management Agency (FEMA) Risk Mapping, Assessment and Planning (Risk MAP) program assists communities nationwide with assessing flood risks and encouraging mitigation planning to avoid or minimize damage in the face of future disasters. Through more precise flood maps, risk assessment tools and outreach support, Risk MAP strengthens local ability to make informed decisions about reducing risk. In partnership with FEMA, the River Authority is conducting Risk MAP efforts within the Cibolo Creek, Lower San Antonio River, Upper San Antonio River – Phases I and II, and the Upper Medina River watersheds. These efforts

consist of two phases with the first being Discovery and the second being Risk Identification and Assessment.

For FY 2017/18, the Upper San Antonio River, Medina River, Cibolo Creek, and Lower San Antonio River projects will focus on completing Phase II, Risk Identification and Assessment activities. These activities include developing FEMA flood risk GIS data products, a Flood Risk map, report, and database for each project area.

Also in FY 2017/18, the River Authority will continue program management items such as an annual update of the CTP - Business Plan and an update of the quality assurance/quality control plan. FEMA funding for this program totals \$2,911,500.

Environmental Flows Validation

This project develops methodologies to validate environmental flows adopted by the State of Texas. Phase I was completed in 2015 and the Texas Water Development Board granted the River Authority additional funds to perform additional work. The current project budget from grant funding is \$151,000. This project focuses on determining biological responses (both aquatic and riparian) to pulse flows, so that the needs of biological communities are met by the timing and magnitude of the pulse flow. This information can then be used to refine future environmental flow recommendations.

In FY 2017/18, an expert workshop will be held to explain the findings to date and seek advice on which ideas show promise and should be investigated further. Sampling will continue at some of the current sampling locations.

FEMA LOMR Grants

This project supports the River Authority's Letter of Map Revision (LOMR) and Conditional Letter of Map Revision (CLOMR) delegation. The grants, which currently total \$703,500, delegate to the River Authority the responsibility of reviewing all the LOMR and CLOMR submittals to the Federal Emergency Management Agency (FEMA). The technical review of these studies is done by the River Authority Watershed Engineering staff; maps are completed by geographic information system (GIS) staff. This project secures the Digital Flood Insurance Rate Maps (DFIRM) investment by keeping the new flood map information up to date and interactive.

In FY 2017/18, the River Authority will continue the role of FEMA LOMR Delegation partner. The River Authority will continue reviewing on behalf of FEMA all Letter of Map Change (LOMC) submittals within Bexar, Wilson, Karnes and Goliad counties.

Floresville City Park

The River Authority had a cost share grant of \$12,231 with the City of Floresville to have a geotechnical study conducted at Floresville City Park. The area along the San Antonio River at the park has experienced bank erosion, gullies and potholes adjacent to the river and further inland towards the ball fields. The study investigated possible causes of the erosion and provided conceptual solutions to remediate these issues. The study was completed in FY 2015/16.

Lower Leon Creek Use-Attainability Analysis (UAA)

The purpose of the Lower Leon Creek Use-Attainability Analysis (UAA) is to conduct monitoring in support of Texas Commission on Environmental Quality (TCEQ) efforts to assign appropriate aquatic life use and dissolved oxygen criterion in Lower Leon Creek. Additional quarterly routine monitoring is performed and samples are collected throughout the San Antonio River Basin. The current grant funding is \$236,000.

For FY 2017/18, a total of four routine collection events will be completed at six stations in the Cibolo Creek (3), Medina River (2) and Medio Creek (1) watersheds and submitted to the TCEQ for inclusion into the state's database. The Lower Leon Creek Use-Attainability Analysis Report is the major deliverable for the project and will detail the correlation of water quality.

Mid/Lower Cibolo Creek Watershed Protection Plan

The project will complete a Watershed Protection Plan for the Mid and Lower Cibolo Creek Watersheds for the Texas State Soil and Water Conservation Board (TSSWCB) and is entirely funded by TSSWCB. The River Authority will participate with Texas AgriLife Extension (AgriLife) to develop a Watershed Protection Plan (WPP) for the Mid Cibolo Creek and Lower Cibolo Creek watersheds. The River Authority will participate as a subcontractor to AgriLife and will provide stormwater quality monitoring, participate in public meetings and use the water quality model developed for the Cibolo Creek Watershed Master Plan Project. The River Authority's tasks include Project Administration, Quality Assurance, Water Quality Monitoring, Water Quality Modeling (to consist of running of scenarios to support the development of the WPP) and participation in stakeholder facilitation; as well as participation in the development of the WPP document.

This project compliments the Cibolo Creek Watershed Master Plan and utilizes the River Authority's ability to identify sources of E. coli that are contributing to concerns and impairments within the Mid and Lower Cibolo Creek Watersheds. The project also develops outreach and educational strategies that highlight SARA's expertise as they participate on the development of the watershed protection plan and increase public knowledge and appreciation for the Mid and Lower Cibolo Creek. The project expands funding sources and partnerships with both AgriLife and TSSWCB in the area of Watershed Protection Plan development.

In FY 2017/18, the project will include a draft and final quality assurance project plan and the initiation of water quality monitoring. Grant funding totals \$200,000.

Parita Creek Dam (Calaveras 10) Rehabilitation

This project improves the Parita Creek (Calaveras 10) Dam to current Texas Commission on Environmental Quality (TCEQ) standards. Grant funding totals \$3,375,000. Improvements primarily include earthwork to increase the height of the dam and to improve the auxiliary spillways. According to the project plan and the operation and maintenance agreement for the rehabilitation project, the River Authority is responsible for the operation and maintenance of this dam site to assure it will function as designed and constructed. This project is funded up to 14 percent (with a maximum of \$429,000) by the Texas State Soil and Water Conservation Board (TSSWCB); the Natural Resources Conservation Service (NRCS) funds 65 percent; and Bexar County funds the remainder. The design is being administered through the River Authority. River

Authority staff also provides construction administration and project management services through construction. These dam improvements have been designed to provide control of floodwaters in the basin, thereby protecting human life and property in the downstream affected areas.

Construction of the Parita Creek (Calaveras 10) dam improvements is substantially complete. There are remaining inundation easements that will have been acquired by the end of FY 2016/17.

River Road Stream Restoration

The River Authority was awarded grant funding in the amount of \$550,001 from the U.S. Environmental Protection Agency (EPA) to support stream restoration as a stormwater best management practice (BMP) to address non-point source pollution in the River Road area along the San Antonio River. This project designs, constructs, and monitors restoration of a section of the Upper San Antonio River from Mulberry Avenue to Woodlawn Streets. Using this demonstration project, training is being developed and delivered to educate resource managers, designers, and contractors how to plan, manage, design, construct, and maintain stream restoration and stormwater BMPs.

In FY 2017/18, the River Authority will conduct community and stakeholder meetings. Through these meetings, the restoration of the Upper San Antonio River and best management practices to treat stormwater runoff from the roadways nearby will be designed using the input received at these meetings. Coordination with the appropriate permitting authorities will be conducted to obtain the necessary permissions for the construction project. Construction documents will be produced to support procurement of constructions services.

San Antonio Housing Authority (SAHA) Wheatley Courts

The San Antonio Housing Authority (SAHA), working with the Department of Housing and Urban Development's (HUD) CHOICE Neighborhood program, has created a neighborhood transformation plan to develop a revitalized, mixed-income, low-impact, safe, and walkable community where residents have access to new parks and recreational opportunities along the Menger Creek. SAHA has an interlocal agreement (ILA) with the River Authority that allows the River Authority to provide real estate acquisition services for the SAHA Wheatley Courts Redevelopment Project. SAHA is incorporating Low Impact Design (LID) features to its storm management plan for this project. This project was completed in FY 2015/16. Funding from grant sources totaled \$395,476.

Stormwater Retrofit Best Management Practices (Texas Commission on Environmental Quality)

Stormwater retrofits of River Authority facilities were constructed as demonstration projects in support of the Upper San Antonio Watershed Protection Plan best management practices (BMP). These demonstration projects provide educational opportunities for the River Authority to educate the local development community and general public how best management practices can be implemented and managed. In addition, the projects benefit the health and safety of the San Antonio River Basin.

In FY 2017/18, the previously constructed BMPs will be monitored to evaluate their performance. In addition, educational activities such as tours and workshops will be conducted onsite to educate

the management, maintenance, and construction communities on best practices. The findings of the monitoring and a summary of all project activities will be compiled in a final report to the Texas Commission on Environmental Quality, a funding partner on this project. Grant funding totaled \$500,000 for this project.

San Antonio River Authority
 Medina Dam Fund
 Fiscal Year Ending June 30, 2018

Fund: 14

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ -	\$ -	\$ -	\$ -
Total Beginning Balance	\$ -	\$ -	\$ -	\$ -
Revenue				
Intergovernmental Revenue	\$ 49,283	\$ 50,000	\$ 50,000	\$ 75,000
Total Revenue	\$ 49,283	\$ 50,000	\$ 50,000	\$ 75,000
TOTAL AVAILABLE FUNDS	\$ 49,283	\$ 50,000	\$ 50,000	\$ 75,000
APPROPRIATIONS				
Operating Expenditures	\$ 49,283	\$ 50,000	\$ 50,000	\$ 75,000
TOTAL OPERATING APPROPRIATIONS	\$ 49,283	\$ 50,000	\$ 50,000	\$ 75,000
Unrestricted Ending Fund Balance	\$ -	\$ -	\$ -	\$ -
TOTAL APPROPRIATIONS	\$ 49,283	\$ 50,000	\$ 50,000	\$ 75,000

Medina Dam Fund

Fund 14

Description

The San Antonio River Authority began the Medina Dam Improvement Project in 2010, providing management and construction administration services for the project on behalf of Bexar-Medina-Atascosa Counties Water Control and Improvement District No. 1, the Texas Water Development Board and Bexar County. The improvements were completed in 2012 and included the addition of anchors to the dam's existing abutments and the addition of a concrete apron downstream of the emergency spillway. This fund remains active due to pending litigation related to this project.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Operating Expenditures	\$49,283	\$50,000	\$75,000
<i>Total Appropriations</i>	<i>\$49,283</i>	<i>\$50,000</i>	<i>\$75,000</i>

Program Justification and Fiscal Analysis

The FY 2017/18 Budget provides funding for legal expenses related to the Medina Dam Improvement Project resulting from cases filed by contractors. Any expenses incurred are fully reimbursed by Bexar-Medina-Atascosa Counties Water Control and Improvement District No. 1 and Bexar County.

San Antonio River Authority
 Park Resources Development Fund
 Fiscal Year Ending June 30, 2018

Fund: 26

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 339,359	\$ 360,592	\$ 374,071	\$ 396,101
Total Beginning Balance	\$ 339,359	\$ 360,592	\$ 374,071	\$ 396,101
Revenue				
Investment Earnings	\$ 898	\$ 180	\$ 1,545	\$ 500
Charges for Services	23,971	20,000	22,345	20,000
Miscellaneous	9,843	-	-	-
Total Revenue	\$ 34,712	\$ 20,180	\$ 23,890	\$ 20,500
TOTAL AVAILABLE FUNDS	\$ 374,071	\$ 380,772	\$ 397,961	\$ 416,601
APPROPRIATIONS				
Graytown Park on the San Antonio River	\$ -	\$ 227,807	\$ 500	\$ 227,307
Nature Park Signage Development	-	89,193	1,360	43,445
TOTAL OPERATING APPROPRIATIONS	\$ -	\$ 317,000	\$ 1,860	\$ 270,752
Unrestricted Ending Fund Balance	374,071	63,772	396,101	145,849
TOTAL APPROPRIATIONS	\$ 374,071	\$ 380,772	\$ 397,961	\$ 416,601

Park Resources Development Fund

Fund 26

Description

The Park Resources Development Fund accounts for revenues received from the sale of land, leases, license agreements and easements, unless otherwise dedicated to other funds. The funds can only be used for land acquisition and/or the development of any project included in the San Antonio River Authority's River Basin Plan for Nature Based Park Resources or subsequent regional parks and recreation plan.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Capital Expenditures	\$ -	\$1,860	\$270,752
<i>Total Appropriations</i>	\$ -	\$1,860	\$270,752

Program Justification and Fiscal Analysis

The Park Resources Development Fund provided funds for two major park improvement projects, described below. These improvements, all part of the San Antonio River Authority's parks master plan, are designed to attract visitors to the park for various activities including camping.

Graytown Park on the San Antonio River

The Graytown Park on the San Antonio River project, funded at \$227,307, allows for continued development of the park to increase attendance and improve visitor experience. Formerly referred to as County Road 125 (CR125), this property is approximately 22 acres situated midway between the Loop 1604 river access site and John William Helton San Antonio River Nature Park. This location is an alternative put-in and takeout for the SASPAMCO paddling trail located near SASPAMCO, Texas. This location also provides an additional area for day use recreational park activities, such as picnic pads and walking trails. In FY 2017/18, the River Authority will complete construct of a pavilion and new public restroom.

Nature Park Signage Development

Park signage enhances visitors' enjoyment, understanding and knowledge of the park as well as identifying other park opportunities/locations the River Authority has to offer. While enjoying the parks, visitors can develop an enhanced appreciation for the San Antonio River and its tributaries. This project designs, constructs, and installs a holistic signage package that is consistent between all of the current River Authority owned nature parks; it also provides templates for all future park development. Installed signs include: wayfinding signage to the park, gateway signs, maps (both to the park and within each park, print and online), directional signage for attractions, interpretive signage, and applicable state and federal signage for national and state designations (i.e. El Camino Real National Historic Trail, Texas Inland Paddling Trail). This project will be completed in FY 2017/18 with the installation of entrance signs and a map for Branch River Park and additional signs for John William Helton Nature Park. Project funding for FY 2017/18 totals \$43,445.

San Antonio River Authority
Regional Water Alliance Fund
Fiscal Year Ending June 30, 2018

Fund: 32

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 8,166	\$ 10,375	\$ 10,699	\$ 13,944
Total Beginning Balance	\$ 8,166	\$ 10,375	\$ 10,699	\$ 13,944
Revenue				
Investment Earnings	\$ 24	\$ 10	\$ 45	\$ 30
Intergovernmental Revenue	4,200	4,200	4,200	4,200
Total Revenue	\$ 4,224	\$ 4,210	\$ 4,245	\$ 4,230
TOTAL AVAILABLE FUNDS	\$ 12,390	\$ 14,585	\$ 14,944	\$ 18,174
APPROPRIATIONS				
Operating Expenditures	\$ 1,691	\$ 6,000	\$ 1,000	\$ 4,625
TOTAL OPERATING APPROPRIATIONS	\$ 1,691	\$ 6,000	\$ 1,000	\$ 4,625
Unrestricted Ending Fund Balance	10,699	8,585	13,944	13,549
TOTAL APPROPRIATIONS	\$ 12,390	\$ 14,585	\$ 14,944	\$ 18,174

Regional Water Alliance Fund

Fund 32

Description

The Regional Water Alliance Fund is used to promote and facilitate the sharing of ideas, knowledge, experience and resources of twenty-one water purveyors and regional water entities that have joined together to form the Regional Water Alliance. This group seeks out and implements collaborative solutions to effectively meet the region's diverse water needs. Revenue comes from membership dues. Expenditures mainly relate to San Antonio River Authority staff and some outside resources to support the group's activities.

Appropriations:

	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Operating Expenditures	\$1,691	\$1,000	\$4,625
<i>Total Appropriations</i>	<i>\$1,691</i>	<i>\$1,000</i>	<i>\$4,625</i>

Program Justification and Fiscal Analysis

The FY 2017/18 Budget for the Regional Water Alliance Fund provides funds to pay for San Antonio River Authority staff and some outside consulting services to support the alliance's efforts.

San Antonio River Authority
San Antonio CIP Land Sales Fund
Fiscal Year Ending June 30, 2018

Fund: 22

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 357,948	\$ 379,229	\$ 164,166	\$ 444,113
Restricted Reserve	-	-	-	75,000
Total Beginning Balance	\$ 357,948	\$ 379,229	\$ 164,166	\$ 519,113
Revenue				
Investment Earnings	\$ 844	\$ 400	\$ 840	\$ 840
Charges for Services	54,215	55,520	588,618	55,100
Total Revenue	\$ 55,059	\$ 55,920	\$ 589,458	\$ 55,940
TOTAL AVAILABLE FUNDS	\$ 413,007	\$ 435,149	\$ 753,624	\$ 575,053
APPROPRIATIONS				
Westside Creeks San Pedro Creek Project	\$ 248,841	\$ 267,261	\$ 234,511	\$ 435,000
TOTAL OPERATING APPROPRIATIONS	\$ 248,841	\$ 267,261	\$ 234,511	\$ 435,000
Unrestricted Ending Fund Balance	164,166	167,888	444,113	65,053
Restricted Reserve	-	-	75,000	75,000
TOTAL APPROPRIATIONS	\$ 413,007	\$ 435,149	\$ 753,624	\$ 575,053

San Antonio Capital Improvements Project Land Sales Fund

Fund 22

Description

The San Antonio River Authority entered into an amendatory contract with Bexar County in 1999 to work in partnership to complete needed flood control capital improvement projects. Through these projects, the River Authority received funds related to land use. The San Antonio Capital Improvements Project Land Sales Fund accounts for the revenue and authorized expenditures of these funds. Available funds are currently being used to support the Westside Creeks San Pedro Creek Capital Improvements Project.

Appropriations:

	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Westside Creeks San Pedro Creek Project	\$248,841	\$234,511	\$435,000
<i>Total Appropriations</i>	<i>\$248,841</i>	<i>\$234,511</i>	<i>\$435,000</i>

Program Justification and Fiscal Analysis

The FY 2017/18 Budget appropriates funds for use in supporting completion of the Westside Creeks San Pedro Creek capital improvement project. The majority of funding for this project comes from the City of San Antonio and Bexar County. The River Authority’s funding will support the creative services and communication efforts of the San Pedro Creek Improvements Projects. These funds will be used to support facilitation services of public meetings along with various public relations initiatives including media relations, website development, branding, community relations and graphic design. A new website and “app” will be developed to enhance the visitors’ experience at the park. These funds will also be used to support other initiatives of the San Pedro Creek Improvements Project as needed.

San Antonio River Authority
SARA Public Facilities Corporation Fund
Fiscal Year Ending June 30, 2018

Fund: 23

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 17,562	\$ 17,570	\$ 17,570	\$ 17,570
Total Beginning Balance	\$ 17,562	\$ 17,570	\$ 17,570	\$ 17,570
Revenue				
Investment Earnings	\$ 8	\$ -	\$ -	\$ -
Charges for Services	182,738	182,674	182,674	182,283
Total Revenue	\$ 182,746	\$ 182,674	\$ 182,674	\$ 182,283
TOTAL AVAILABLE FUNDS	\$ 200,308	\$ 200,244	\$ 200,244	\$ 199,853
APPROPRIATIONS				
Operating Expenditures	\$ -	\$ 12,277	\$ -	\$ 12,277
Debt Service	182,738	182,674	182,674	182,283
TOTAL OPERATING APPROPRIATIONS	\$ 182,738	\$ 194,951	\$ 182,674	\$ 194,560
Unrestricted Ending Fund Balance	17,570	5,293	17,570	5,293
TOTAL APPROPRIATIONS	\$ 200,308	\$ 200,244	\$ 200,244	\$ 199,853

San Antonio River Authority Public Facilities Corporation Fund

Fund 23

Description

The San Antonio River Authority Public Facilities Corporation is a nonprofit public facility corporation that acts on behalf of the River Authority. The Public Facilities Corporation has statutory authority beyond the scope of the River Authority itself. The Public Facilities Corporation worked with the River Authority to issue debt to fund the construction of a new watershed and parks operation facility – the Mission Reach Operations Center. The Public Facilities Corporation funded and owns the facility and the River Authority pays an annual lease for use of the building.

Appropriations:

	<u>FY 2015/16</u>	<u>FY 2016/17</u>	<u>FY 2017/18</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Budget</u>
Operating Expenditures	\$ -	\$ -	\$ 12,277
Debt Service	182,738	182,674	182,283
<i>Total Appropriations</i>	<i>\$182,738</i>	<i>\$182,674</i>	<i>\$194,560</i>

Program Justification and Fiscal Analysis

Construction of the Mission Reach Operations Center was completed in May 2015. Costs associated with that construction were funded with debt proceeds from a debt issuance of the Public Facilities Corporation. Funding remains in FY 2017/18 to complete LEED (Leadership in Energy and Environmental Design) Certification for the facility.

In addition, the principal and interest payments on the debt are made annually through this fund. The debt payment is paid from a lease payment funded by the River Authority’s General Fund.

San Antonio River Authority
 San Antonio River Industrial Development Authority Fund
 Fiscal Year Ending June 30, 2018

Fund: 24

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 33,934	\$ 27,984	\$ 28,006	\$ 22,116
Total Beginning Balance	\$ 33,934	\$ 27,984	\$ 28,006	\$ 22,116
Revenue				
Investment Earnings	\$ 72	\$ 50	\$ 110	\$ 100
Total Revenue	\$ 72	\$ 50	\$ 110	\$ 100
TOTAL AVAILABLE FUNDS	\$ 34,006	\$ 28,034	\$ 28,116	\$ 22,216
APPROPRIATIONS				
Operating Expenditures	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
TOTAL OPERATING APPROPRIATIONS	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Unrestricted Ending Fund Balance	28,006	22,034	22,116	16,216
TOTAL APPROPRIATIONS	\$ 34,006	\$ 28,034	\$ 28,116	\$ 22,216

San Antonio River Industrial Development Authority Fund

Fund 24

Description

The San Antonio River Industrial Development Authority (IDA) is a separate organization with its own corporate board. The board manages and approves funding and revenues for this organization.

Appropriations:

	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Operating Expenditures	\$6,000	\$6,000	\$6,000
<i>Total Appropriations</i>	<i>\$6,000</i>	<i>\$6,000</i>	<i>\$6,000</i>

Program Justification and Fiscal Analysis

As in prior years, the FY 2017/18 Budget allocates funding to pay the San Antonio River Authority's membership in the Economic Development Foundation.

San Antonio River Authority
 South Texas Regional Water Planning Group
 Fiscal Year Ending June 30, 2018

Fund: 30

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 154	\$ -	\$ 11	\$ -
Total Beginning Balance	\$ 154	\$ -	\$ 11	\$ -
Revenue				
Investment Earnings	\$ 62	\$ 50	\$ 10	\$ 50
Intergovernmental Revenue	107,984	204,030	128,210	513,389
Total Revenue	\$ 108,046	\$ 204,080	\$ 128,220	\$ 513,439
TOTAL AVAILABLE FUNDS	\$ 108,200	\$ 204,080	\$ 128,231	\$ 513,439

APPROPRIATIONS

Operating Expenditures	\$ 108,189	\$ 204,080	\$ 128,231	\$ 513,439
TOTAL OPERATING APPROPRIATIONS	\$ 108,189	\$ 204,080	\$ 128,231	\$ 513,439
Unrestricted Ending Fund Balance	11	-	-	-
TOTAL APPROPRIATIONS	\$ 108,200	\$ 204,080	\$ 128,231	\$ 513,439

South Texas Regional Water Planning Group Fund

Fund 30

Description

The South Texas Regional Water Planning Group Fund is an account managed by the San Antonio River Authority pursuant to the Interlocal Agreement (ILA) for Funding of Senate Bill 1 South Central Texas Regional Water Planning Group Administrative Costs. The participants include stakeholders throughout the twenty-one county South Texas Regional Water Planning Area – cities, counties, groundwater management areas, river authorities, water districts, water and electric utilities, small businesses, and agricultural, environmental and industrial interests. The participants in Region L have entered into interlocal agreements to reimburse the River Authority for its labor and direct expenses associated with administering the development of the 2021 South Central Texas Regional Water Plan. Revenues are received from the Texas Water Development Board and the participants in Region L. Funds are used for consulting services to develop the plan and general administrative costs associated with developing the five year water plan.

Appropriations:

	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Operating Expenditures	\$108,189	\$128,231	\$513,439
<i>Total Appropriations</i>	<i>\$108,189</i>	<i>\$128,231</i>	<i>\$513,439</i>

Program Justification and Fiscal Analysis

In FY 2017/18, the Budget provides funding for administrative costs and development of the 2021 Regional Water Plan which will be incorporated into the 2022 State Water Plan. Revenue for administrative costs comes from the Region L partners. Funding for the plan development is provided by the Texas Water Development Board.

San Antonio River Authority
Texas Water Development Board Fund
Fiscal Year Ending June 30, 2018

Fund: 82

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 223,069	\$ 249,027	\$ 249,027	\$ -
Total Beginning Balance	\$ 223,069	\$ 249,027	\$ 249,027	\$ -
Revenue				
Transfers	\$ 391,082	\$ -	\$ -	\$ -
Total Revenue	\$ 391,082	\$ -	\$ -	\$ -
TOTAL AVAILABLE FUNDS	\$ 614,151	\$ 249,027	\$ 249,027	\$ -
APPROPRIATIONS				
Cibolo Creek Watershed Master Plan	\$ 365,124	\$ 249,027	\$ 249,027	\$ -
TOTAL OPERATING APPROPRIATIONS	\$ 365,124	\$ 249,027	\$ 249,027	\$ -
Unrestricted Ending Fund Balance	249,027	-	-	-
TOTAL APPROPRIATIONS	\$ 614,151	\$ 249,027	\$ 249,027	\$ -

Texas Water Development Board Fund

Fund 82

Description

The Texas Water Development Board (TWDB) Fund accounts for projects that are funded through a loan received by the River Authority from the TWDB. The four projects included in this fund were: the Wastewater Treatment Plant (WWTP) Nutrient Study; the Wilson, Karnes, Goliad Watershed Master Plan; the Medina Watershed Master Plan and the Cibolo Watershed Master Plan. The original loan totaled \$4.3 million and funded debt issuance costs as well as these projects. The River Authority’s utility contributed a portion of the costs to complete the WWTP Nutrient Study. The River Authority’s General Fund provides the staff resources to complete these important projects and contributed to completion of the Cibolo Watershed Master Plan.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Operating Expenditures	\$365,124	\$249,027	\$ -
<i>Total Appropriations</i>	<i>\$365,124</i>	<i>\$249,027</i>	<i>\$ -</i>

Program Justification and Fiscal Analysis

Four projects were included in this fund: the Wastewater Treatment Plant (WWTP) Nutrient Study; the Wilson, Karnes, Goliad Watershed Master Plan; the Medina Watershed Master Plan and the Cibolo Watershed Master Plan. All TWDB funding has been expended toward projects with three of the four being fully completed. The Cibolo Watershed Master Plan project was completed through phase two. This project received funding from the General Fund to complete phase three which is still underway. The funding from the Texas Water Development Board was fully expended in FY 2016/17.



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

SAN ANTONIO RIVER AUTHORITY PROJECT FUND



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

San Antonio River Authority
SARA Projects Fund
Fiscal Year Ending June 30, 2018

Fund: 04

APPROPRIATIONS	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
Available Funds				
Transfers - General Fund	\$ 18,184,001	\$ 10,746,025	\$ 4,292,144	3,145,832
Intergovernmental Revenue	38,256	38,256	-	-
Debt Proceeds	1,200,000	1,200,000	-	-
TOTAL AVAILABLE FUNDS	\$ 19,422,257	\$ 11,984,281	\$ 4,292,144	\$ 3,145,832

APPROPRIATIONS

Projects

Active Ongoing

Basin Assessment Mapping and Analysis Tool	\$ 55,500	\$ -	\$ -	\$ 55,500
Bexar County LiDAR Collection	178,000	-	27,407	150,593
BRWM Stream Mitigation Bank	260,000	-	83,528	176,472
Cibolo Creek Watershed Master Plan	748,182	47,784	67,053	633,345
Clean Rivers Program 2015 Grant	76,000	19,000	34,367	22,633
Cooperating Technical Partners (CTP) Development	85,000	8,941	16,571	59,488
Dam Operations Center	396,156	108,208	116,308	171,640
Downstream Flood Inundation Library	150,000	-	-	150,000
Edwards Aquifer Watershed Protection	93,744	48,663	-	45,081
Environmental Monitoring	85,000	52,099	24,957	7,944
Escondido Creek Parkway	30,000	-	-	30,000
Feral Hog Management	250,000	91,638	75,000	83,362
FloodWorks Website Enhancement	85,350	22,740	-	62,610
Graytown Park (Previously County Road (CR) 125)	125,000	109,107	9,677	6,216
Guenther/Euclid Stormwater Retrofit	185,424	1,177	157,773	26,474
Holistic Freshwater Mussels	33,072	21,506	8,111	3,455
John Helton SA River Nature Park	820,000	210,688	353,781	255,531
Laboratory Management Software Replacement	334,000	-	3,108	330,892
Mission Reach Avian Study	192,000	54,528	29,360	108,112
Mission Reach Erosion Repairs	1,015,000	-	-	1,015,000
Nature Park Signage Development	50,000	1,507	1,997	46,496
Olmos Creek Aquatic Ecosystem Restoration	97,000	-	1,260	95,740
Resource Conservation Partnership Program	250,000	-	302	249,698
River Road Stream Restoration	434,000	-	-	434,000
San Antonio Bay EDYS Model Development	389,000	-	175,079	213,921
Stormwater Training and Tools	165,000	96,344	10,907	57,749
Trash and Floatables Mitigation	773,525	202,103	483,722	87,700
Trash and Floatables Mitigation - Olmos Creek	20,000	-	-	20,000
Tributary Modeling	320,000	-	43,515	276,485
Trueheart Park	85,000	-	10,000	75,000
USGS Baseline Study of Oil and Gas Production Constituents Phase II Project	244,200	115,950	47,300	80,950
Urban Reach Operations Center	1,200,000	1,109,545	6,682	83,773
USGS LSAR Groundwater/Surface Water Modeling	111,000	65,250	27,750	18,000
UTSA Sediment Source Mobility	110,000	17,753	37,055	55,192
Water Quality Data Analytics	80,000	55,499	4,000	20,501
Watershed Master Plans Integration	50,000	-	-	50,000
Watershed Wise River Discovery	267,500	-	123	267,377
Watershed Wise Rebate Program	1,370,000	-	132,221	1,237,779
Watershed Wise School Grant	175,000	53,604	33,400	87,996
Westside Creeks - Linear Creek Trails and Elmendorf Park	75,000	-	-	75,000
Westside Creeks - San Pedro Creek	20,000	-	20,000	-

San Antonio River Authority
SARA Projects Fund
Fiscal Year Ending June 30, 2018

Fund: 04

APPROPRIATIONS	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
New Authorized Projects				
Clean Rivers Program 2017/SARA Stream Monitoring	23,000	-	-	23,000
Digital Data and Model Repository Redevelopment	140,000	-	-	140,000
Facilities Acquisition/Improvements Project	600,000	-	-	600,000
Impervious Cover Mitigation	270,000	-	13,518	256,482
Museum Reach Electrical Infrastructure Upgrade	360,000	-	-	360,000
New Authorized Projects - Unfunded				
Brooks City Base - Mission Reach Linkage	-	-	-	-
Mann's Crossing Park on the Medina River	-	-	-	-
River Crossing Park River Access Reconstruction	-	-	-	-
Stone Oak Park Dam Spillway Repair	-	-	-	-
Stormwater Best Management Practices Verification	-	-	-	-
Closed Projects				
Automated Storm Water Project	72,280	72,280	-	-
Bacterial Source Tracking	105,222	100,637	4,585	-
ICM System Pilot	125,000	120,952	4,048	-
Urban Reach E coli Monitoring	19,020	19,020	-	-
USGS Huisache Brush Management	15,000	11,250	3,750	-
USGS Westside Creeks Sediment Study	7,000	5,250	1,750	-
Transfer	200,000	-	-	200,000
Total Project Expenditures	\$ 13,420,175	\$ 2,843,023	\$ 2,069,965	\$ 8,507,187
Unrestricted Reserve	6,002,082	-	-	6,002,082
TOTAL APPROPRIATIONS	\$ 19,422,257	\$ 2,843,023	\$ 2,069,965	\$ 14,509,269

San Antonio River Authority Project Fund

Fund 04

Description

The San Antonio River Authority (River Authority) conducts studies and completes projects that further the mission of the organization. The main source of funding for these studies and projects is the General Fund. Completion of these projects and studies may span more than one fiscal year. Therefore, in FY 2015/16, the San Antonio River Authority Project Fund was created to budget and manage the expenditures for these activities. This fund's project budgets are managed by project life rather than by fiscal year to recognize this issue. Funds are transferred from the General Fund to provide needed funding for the projects budgeted in this fund. Debt funding has also been used for a building acquisition and renovation.

For FY 2017/18, 50 projects and studies are included in this fund and fall into five programs – Natural Resource Protection, Nature Based Parks, Sustainable Watersheds Implementation, Watershed Modeling, Studies and Planning and Watershed Safety and Response. \$12,876,653 is budgeted for open, active projects (\$11,483,653 for existing and ongoing projects; \$1,393,000 in funding for new projects).

This fund also includes the Unrestricted Reserve established by the Board of Directors in the adopted revised fund balance policy. This reserve can be used for any purpose including acquisition of facilities, water, water rights or other activities approved by the Board.

The following describes each project and includes a statement regarding how the project furthers the River Authority's mission.

Projects

Basin Assessment Mapping and Analysis Tool

Project Budget: \$55,500

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

The primary goal of the Basin Assessment Mapping and Analysis Tool project is to compile, review and assess existing and current spatial data, models and analysis from both the River Authority and external sources to provide key indicators of watershed condition/health. Additionally, assessment results and associated data are being visualized and made available in an intuitive and interactive web mapping application, to aid in decision support and prioritization of target areas for holistic watershed improvement activities.

Description

This project supports the strategic plan by providing a graphic display of the River Authority's data and analysis in one comprehensive and centralized web platform allowing River Authority staff access to valuable spatial information about the watershed to support planning for the best

use of River Authority resources and to answer questions and communicate information about the San Antonio River Basin.

This project started in FY 2016/17 with collecting and updating spatial data, and finalizing the assessment methodology and results. In FY 2017/18, the Basin Assessment Tool will be finalized by River Authority staff and released for public and River Authority use. Training will be provided on use of the tool, and input gathered to identify additional functionality or data needs that would continue to make the tool more useful. Custom widgets will also be developed as well as a convenient dashboard to make use of the mapping application more intuitive for everyone. Several key datasets will be compiled basin-wide and provided in the tool for analysis. A conservation potential model will be developed for the basin, and an index will be created highlighting key target areas for both River Authority and other watershed stakeholders. In FY 2018/19, the tool will continue to be marketed and advanced visualizations, such as 3D, and other imagery data products will be incorporated as they become available. Operation and maintenance will be similar to other GIS data and applications, and will be accomplished through regular GIS maintenance activities by existing staff.

Bexar County LiDAR Collection

Project Budget: \$178,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Light Detection and Ranging (LiDAR) is a surveying technology used to make high-resolution maps. This mapping technology supports the River Authority's efforts to develop watershed solutions within Bexar County by better understanding how land uses impact our creeks and rivers during storm events.

Description

This Bexar County LiDAR Collection collects high-resolution elevation data for the County. The data supports hydraulic and hydrologic modeling, water quality modeling, flood modeling and other uses.

This two year project began in FY 2016/17 through a contract with Texas Natural Resources Information System (TNRS). A vendor was selected to collect, process, and provide independent quality assurance/quality control reviews. Phases I and II were completed, which consisted of pre-flight planning and LiDAR aerial images collection. For FY 2017/18, this project will focus on completing Phases III and IV which include aerial imaging data processing and final product development. The final product will include digital elevation models (DEM), classified LiDAR points (e.g. buildings, bare earth, high-vegetation, etc.), hydrobreaklines, and intensity imagery that are used to support the River Authority's various modeling efforts. Operation and maintenance will be similar to other GIS data and applications, and will be accomplished through regular GIS maintenance activities by existing staff.

Bexar Regional Watershed Management Stream Mitigation Bank

Project Budget: \$260,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Through collaboration with the Bexar Regional Watershed Management (BRWM) partners, the BRWM Mitigation Bank restores natural stream functions to improve the aquatic and riparian health of the creek. These restoration efforts generate lasting improvements to the creeks' health and safety.

Description

A 2008 U.S. Environmental Protection Agency (EPA)/U.S. Army Corps of Engineers (USACE) rule established mitigation banking as the preferred method of mitigating stream impacts. A stream mitigation bank is a stream that has been restored and then set aside to compensate for future stream impacts. In FY 2013/14, the BRWM funded a study to evaluate developing an urban stream mitigation bank within Bexar County. Based on the recommendations of the study, the prospectus was submitted in FY 2014/15 and the Mitigation Banking Instrument (MBI) was submitted in FY 2016/17.

In FY 2017/18, staff will work with the USACE and interagency review team to address comments on the MBI and establish the mitigation bank. The MBI is documentation that includes design plans and establishes guidelines for the establishment, operation, and maintenance of the proposed mitigation bank. Management of the program will be accomplished by existing River Authority staff.

Cibolo Creek Watershed Master Plan

Project Budget: \$1,854,334

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

A holistic watershed master plan is being developed for the Cibolo Creek Watershed. The plan focuses on flood issues (hydrologic and hydraulic analysis), stream restoration, water quality modeling, water quality best management practices, GIS/mapping/remote sensing, low impact development, Municipal Separate Storm Water Sewer System (MS4) permitting, conservation easements, mitigation banking, and nature-based park planning.

Description

The activities of this project include identification of major flooding reaches, stream characterization and identification of the restoration potential, point and non-point pollutant sources that impact water quality, and development of holistic solutions to address identified risk centers and to meet multiple objects and goals.

In FY 2012/13, Phase I of the project was scoped and consisted of data collection and stakeholder engagement meetings. In FY 2013/14, Phase I was completed and Phase II started consisting of hydrologic and hydraulics (H&H) modeling, water quality modeling and identifying nature-based park and stream restoration sites. Phase II was completed in FY 2016/17 and results were reviewed

and shared with stakeholders for input. In FY 2017/18, the mitigation action plan will be developed based on modeling results, risk identification, and stakeholder input. The master plan, once completed, has no operations and maintenance cost impact. The project is funded by the San Antonio River Authority Project Fund (\$748,182) and a Clean Water State Revolving Fund grant (budgeted in the Grant Fund) (\$1,106,152).

Clean River Program / San Antonio River Authority Stream Monitoring

Project Budget: \$471,540

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Texas Clean Rivers Program (CRP) funded by the Texas Commission on Environmental Quality (TCEQ), with additional funding support from the River Authority, serves to protect and develop a greater understanding of water quality conditions in each sub-watershed in the San Antonio River Basin. Data collected under the CRP is used in the Texas Commission on Environmental Quality Integrated Reports to evaluate surface water quality and provide resource managers with tools for making informed water quality decisions, helping to preserve and protect the creeks and rivers.

Description

The CRP and the River Authority's Stream Monitoring activities utilize a watershed approach to analyze and manage data gathered from surface water samples collected throughout the basin. This information is used to assess current water quality conditions and long-term trends and is shared with the community and stakeholders. The CRP has been ongoing since 1992.

In FY 2015/16, the 2015 Clean Rivers Program was initiated. In FY 2016/17, the CRP collected, analyzed, and managed surface water quality data collected throughout the San Antonio River basin. In FY 2017/18, the 2015 CRP report will be completed. The operating costs related to this program are included in the FY 2017/18 Adopted Budget. The project is funded by the San Antonio River Authority Project Fund (\$76,000) and the Grants Fund (\$395,540).

Cooperating Technical Partners (CTP) Development – LOMR and CLOMR

Project Budget: \$1,257,500

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$0

Through partnerships, this project is advancing and applying River Authority expertise to influence, develop and implement watershed solutions. This also expands, diversifies and leverages funding sources.

Description

This project supports the River Authority's Letter of Map Revision (LOMR) and Conditional Letter of Map Revision (CLOMR) delegation. The River Authority has responsibility for reviewing all LOMR and CLOMR submittals to the Federal Emergency Management Agency (FEMA). This project secures the Digital Flood Insurance Rate Maps (DFIRM) investment by

developing a way to keep the new flood map information up to date and interactive.

In FY 2010/11, the River Authority became FEMA's LOMR Delegation Partner. Since then the River Authority has continued its role of FEMA LOMR Delegation partner and reviews on behalf of FEMA all forms for Letter of Map Change (LOMC) submittals within the Bexar, Wilson, Karnes and Goliad counties. The project budget supports staff training and an annual FEMA workshop which is required to serve as FEMA's Cooperating Technical Partner. The operating costs related to this program are included in the FY 2017/18 Adopted Budget. The project is funded by the San Antonio River Authority Project Fund (\$85,000) and the Grants Fund (\$703,500).

Dam Operations Center

Project Budget: \$396,156

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Renovations to the existing Dam Operations Center on Laguna Road are nearing completion. An earlier preliminary engineering study was conducted to determine the feasibility of relocating and constructing a new Dam Operations Center off Binz-Engleman Road. The study's conclusion lead to the renovations of the existing Center.

Description

The upgrade to the current location includes maintenance and remodeling of existing assets, new equipment and a new shop building to store and maintain larger equipment. This facility supports the River Authority's dam maintenance employees which operate and maintain 28 dams in Bexar County. By maintaining these dams to the state and federal standards, public health and safety is ensured, supporting the River Authority's mission to protect and enhance creeks and rivers through service, leadership and expertise.

Renovations and construction activity were completed in FY 2016/17. Operations and maintenance costs for the renovated facility are included in the FY 2017/18 Adopted Budget.

Downstream Flood Inundation Library

Project Budget: \$150,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Downstream Flood Inundation Library supports the Downstream Flood Mapping and Response system by depicting the potential flooded area associated with a rising river stage. This library assists Wilson, Karnes and Goliad counties in flood responsiveness.

Description

This project updates previously developed modeling and data used to support the Downstream Flood Mapping and Response system. The project develops more current flood inundation libraries for each of the downstream United States Geological Survey (USGS) gages that depict the potential flooded area associated with a rising river stage.

The project began in FY 2016/17 with a review and update of previous floodplain modeling and mapping. The latest elevation data was collected and used to update the floodplain models. In FY 2017/18, this project will work to complete the development of a geospatial library of flood inundation polygons for several USGS gages along San Antonio River and Cibolo Creek within the downstream part of the San Antonio River Basin. Additional deliverables may include floodplain map books as well as data related to floodplain impact summaries and river stage flood response tables. Operation and maintenance will be similar to other GIS data and applications, and will be accomplished through regular GIS maintenance activities by existing staff.

Edwards Aquifer Watershed Protection

Project Budget: \$570,645

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$0

This project supports advancement and application of the River Authority's expertise to influence, develop, and implement watershed solutions that balance environmental, economic, and quality life community needs. It meets the goal of advancing watershed health and safety by generating projects that, when implemented, improve the health of our streams. Also, the project seeks stormwater runoff management solutions that improve water quality and enhance, in concert with local partners, the health and safety of the creeks and rivers.

Description

This project funds research and implementation of best management practices (BMPs) to protect and improve water quality over the Edwards Aquifer. The project scope includes serving as project manager and administrator of the City of San Antonio's Proposition 1 water quality project component centered within urbanized Bexar County's recharge and contributing zones. The scope also includes providing expertise and support to entities researching and/or developing BMPs within the Edwards Aquifer region.

In FY 2016/17, the project pursued project partners, researched BMP placement and types, and utilized professional services to design BMPs. In FY 2017/18, the budget funds staff time to manage implementation of Proposition 1 year one projects funded by City of San Antonio; selection and management of year two projects funded by the City of San Antonio; and staff time and funding to support other water quality projects in the Edwards region. The project is funded by the San Antonio River Authority Project Fund (\$93,744) and the City of San Antonio Capital Improvements Project Fund (\$476,901). The City of San Antonio is responsible for any future operations and maintenance costs that may be associated with the funded projects.

Environmental Monitoring

Project Budget: \$85,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This project developed and deployed a network of sensors for precipitation and stage within the San Antonio River Basin. The network is key to successful hydrologic, hydraulic, and water quality models as well as long term management of the watershed.

Description

This project built a rain gage network that monitors rainfall and stream depth throughout the River Authority's District. Initial efforts focused on supporting the Bexar County Flood Warning Project and providing water level data at all 41 River Authority dams. Coordination between existing rainfall monitoring systems of the City of San Antonio and the Edwards Aquifer Authority (EAA) has maximized data collection in Bexar County. Installation of equipment in Bexar County is a cooperative effort between the River Authority and EAA.

In FY 2016/17, the project completed the expansion of the rainfall network to all River Authority dams and six locations on the Mission Reach. In FY 2017/18, the project will transition to operations and maintenance. Staff will continue to work with the National Weather Service and local emergency management officials to investigate future locations. Operations and maintenance costs associated with the project are included in the FY 2017/18 Adopted Budget.

Escondido Creek Parkway Improvements

Project Budget: \$1,819,534

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$275,000 to \$300,000

Escondido Creek Parkway, located in Karnes County, meanders between the City of Kenedy's Joe Gulley Park on the west and downtown Kenedy on the east. This 1.25 mile stretch is currently maintained by the San Antonio River Authority for drainage and flood control. The project supports the strategic planning goal of watershed health and safety.

Description

The River Authority is working with the local community to develop the Escondido Creek Parkway. The initial development will extend between Joe Gulley Park to North 5th Street/Business 181, with potential future phases extending east to the old Southern Pacific Railroad right-of-way, and south to a downtown trailhead.

Beginning in FY 2011/12, the River Authority obtained a memorandum of agreement with the City of Kenedy, began conceptual planning and the real estate due diligence. Planning, identifying funding partners and real estate acquisition ensued. In FY 2016/17, a consultant was hired, and conceptual plans were completed. During FY 2017/18, the River Authority will build upon the 30 percent schematic design completed in FY 2016/17. A consultant will continue to work with the Escondido Creek Oversight Committee to advance the preliminary design into 100 percent design plans and construction documents. Funding opportunities will be identified and, based upon funding levels secured, the project will move into construction. Additional funding sources will continue to be pursued with project completion anticipated in FY 2019/20. The project is currently funded by the San Antonio River Authority Project Fund (\$30,000) and the Downstream Capital San Antonio River Authority Project Fund (\$1,789,534) which represents funding from various contributor in Karnes County including the City of Kenedy 4B Corporation and the City of Kenedy

Chamber of Commerce. Operations and maintenance costs, when the project is completed, will be the responsibility of the River Authority and are estimated at \$275,000 and \$300,000.

Feral Hog Management

Project Budget: \$250,000

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

Texas is home to about 2.6 million feral hogs which cause an estimated \$500 million annually in damages to rural and urban areas in Texas. The hogs cause damage to riparian areas along streams, increasing erosion. Feral hogs defecate in and around water, increasing levels of bacteria and nutrients in creeks and rivers. Efforts from this continued project work towards generating lasting and recognized improvements to the health and safety of the creeks, rivers, estuaries and bays.

Description

This project, in its third year, continues to develop relationships and fund activities with other agencies to develop strategies that work to manage the feral hog population in the River Authority's district using programs that both educate land owners and provide support for management of feral hogs. This project implements wildlife best management practices in the district to improve water quality and promote riparian health.

Since FY 2015/16, the River Authority has partnered with Texas A&M AgriLife, to host workshops to educate landowners in the district about feral hog management. Staff has also work with the United States Department of Agriculture Animal and Plant Health Inspection Service (USDA-APHIS) Wildlife Services to actively reduce populations of feral hogs in the district. The program does not require any future investments in operations and maintenance costs by the River Authority.

FloodWorks Website Enhancement

Project Budget: \$85,350

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This project enhances the current FloodWorks website to display one or many rainfall forecast results in addition to current condition results. This strengthens the River Authority's support role with local emergency operations and provides emergency managers and response personnel access to the best available forecasted and current flood event data to support their planning and preparation activities well in advance and during a storm event. The FloodWorks system ultimate goal is to keep citizens safe in times of high water events.

Description

The FloodWorks website is a companion application that reads and displays simulation results from the primary FloodWorks system. The current website only displays near-real time data and doesn't allow display of future forecast simulation results. The objective of this project is to enhance the current web application to display one or many forecast results in addition to the current condition results.

This project began in FY 2015/16 to enhance the existing FloodWorks web application. In FY 2017/18, this project will complete the enhancements to the FloodWorks web mapping application such as usability on mobile devices, adding locations of critical infrastructure, allowing users to "save" bookmarks of locations important to them, integration of other GIS layers, and developing a mechanism for live notifications from the system based on simulation results. Operations and maintenance costs associated with the project are included in the FY 2017/18 Adopted Budget.

Graytown Park on the San Antonio River

Project Budget: \$352,307

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Graytown Park on the San Antonio River project continues development of park amenities to increase and enhance visitor experiences, attendance and overall provide opportunities for visitors to enjoy, appreciate and understand the San Antonio River.

Description

Graytown, initially referred to as County Road 125 (CR125), is approximately 22 acres situated midway between the Loop 1604 river access site and John William Helton San Antonio River Nature Park. This location is an alternative put-in and takeout for the SASPAMCO paddling trail located near SASPAMCO, Texas. This location also provides an additional area for day use recreational park activities such as picnic pads and walking trails, and also contains an 18-hole disc golf course.

In FY 2011/12, this nature-based park site was identified and acquisition efforts began. In the ensuing years, the park was planned and construction began on the park amenities. In FY 2017/18, the River Authority will construct a pavilion and public restroom which will complete the park's major improvements which include road work, paddling trail put-in and take-out site, 18-hole disc golf course, walking trails and picnic pads. The project is funded by the San Antonio River Authority Project Fund (\$125,000) and the Park Resources Development Fund (\$227,307). Operations and maintenance costs for the funded improvements are included in the FY 2017/18 Adopted Budget.

Guenther/Euclid Stormwater Retrofit

Project Budget: \$685,424

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Stormwater retrofits of River Authority facilities were constructed as demonstration projects in support of the Upper San Antonio Watershed Protection Plan best management practices (BMPs). These demonstration projects provide opportunities for the River Authority to educate the local development community and general public how best management practices can be implemented and managed. In addition, the project benefits the health and safety of the San Antonio River basin.

Description

The Guenther and Euclid buildings were constructed before low impact development (LID) and other sustainable stormwater technologies were available. The Euclid building's stormwater runoff caused erosion on River Authority property, and the Guenther stormwater runoff drained into the Eagleland reach of the San Antonio River Improvements Project. This project retrofitted these facilities' stormwater infrastructure utilizing LID design and construction to improve runoff water quality, to capture all first-flush pollutants, and to increase on-site infiltration before the runoff reaches the San Antonio River and/or its tributaries. Funding to support this effort was provided in part by an Environmental Protection Agency (EPA) grant, administered through the Texas Commission on Environmental Quality (TCEQ).

Contract negotiation began in FY 2015/16, as well as the design, review and permitting processes. Construction of the LID features was completed in FY 2016/17. Features include pervious cover parking areas, rainfall cisterns and reuse of rainfall into on-site irrigation systems. In FY 2017/18, monitoring of the BMPs and education will continue, as well installation of additional signage. The project is funded by the San Antonio River Authority Project Fund (\$185,424) and the Grants Fund (\$500,000). Operations and maintenance costs for the funded improvements are included in the FY 2017/18 Adopted Budget.

Holistic Freshwater Mussel Project

Project Budget: \$33,072

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

This ongoing project promotes watershed solutions and leverages resources by providing data for the United States Fish and Wildlife Service for at risk species through mussel surveys from the lower Cibolo Creek and San Antonio River, augmenting the Cibolo Creek Watershed Master Plan, and providing data for Texas Parks and Wildlife Department (TPWD) for the Texas Instream Flows Program (TIFP).

Description

Three freshwater mussel species under review for federal listing as threatened or endangered have historically been found in the San Antonio River Basin. One species, the Golden Orb, has been recently found in numerous locations in the San Antonio River. In an effort to determine mussel densities and species richness for the entire native mussel community in the San Antonio River Basin, the River Authority conducts reconnaissance surveys and mussel sample collections efforts throughout the basin. Data collected is distributed to regulatory agencies to assist in decision-making for listing or delisting candidate species. Sampling locations include the San Antonio River, Cibolo Creek, Salado Creek, Lower Leon Creek, Salatrillo and Martinez Creeks, lower Medina River, Medio Creek and Westside Creeks.

Since FY 2014/15, River Authority biologists have conducted reconnaissance surveys and sampling efforts on the Lower Cibolo Creek, the Westside Creeks, the Upper and Lower San Antonio River, the San Juan Remnant Channel, the Espada Ditch, and the Lower Medina River. In FY 2017/18, the River Authority will continue reconnaissance surveys throughout the Upper and Lower San Antonio River to estimate mussel population parameters which includes species

richness, mussel densities, population size and recruitment. Following completion of these qualitative efforts, mussel abundance from all qualitative sites will be assessed to determine if quantitative efforts are needed throughout the study area. To date, Lower Cibolo Creek, the Westside Creeks, San Juan Remnant, Espada Ditch have been completed and the Lower Leon Creek is near completion. This project will not require operations and maintenance expenditures in future years.

John William Helton San Antonio River Nature Park

Project Budget: \$820,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Continued improvements at John William Helton Nature Park (Helton) furthers opportunities for visitors to enjoy, appreciate and understand the San Antonio River.

Description

Over the past several years, the River Authority has improved the 98 acres John William Helton San Antonio River Nature Park by adding a multi-use pavilion, picnic units, signage, educational panels, paddling trail access, restrooms, a playground, park trails and a riparian land management demonstration area. Additionally, River Authority staff has hosted numerous community programs and events. Funding included in this project allows for continued development of the park to increase usage.

Since FY 2006/07, the park has been master planned and elements of the plan implemented. This nature park serves as a paddling trail put-in and take-out site, an active recreation site for the area's youth soccer association and archery club, and also serves as a nature learning center with various programs hosted throughout the year. In FY 2017/18, the River Authority will improve the park entrance on FM 775 to meet Texas Department of Transportation requirements and increase the safety of patrons to enter and leave the park. Additionally, a camping flood alert system will be installed. Finally, a barge access area will be constructed to improve the River Authority staff's ability to provide services in and along the river in this area. Operations and maintenance costs for the funded improvements are included in the FY 2017/18 Adopted Budget.

Laboratory Information Management Software System Replacement

Project Budget: \$334,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The acquisition and implementation of a new Laboratory Information Management System (LIMS) supports the River Authority's commitment to advance the science of watershed management by utilizing an advanced modern tool to manage, store, report, retrieve, and integrate data used for decision making. It facilitates implementation of operational efficiencies that respond to the growing and evolving demands for laboratory testing and data services.

Description

The River Authority's Regional Environmental Laboratory utilizes a Laboratory Information Management System (LIMS) to electronically capture information for all samples submitted to the laboratory from internal and external customers. The current LIMS has been in use since February 2006 and was last upgraded in 2011. However, the version of the product currently in use does not include advances made throughout the industry and lacks productivity, reporting, interfacing, and management tools to meet the ever increasing data management and reporting challenges of environmental testing laboratories.

The contract was negotiated and the software was acquired and in FY 2016/17. In FY 2017/18, staff complete the software implementation process and incorporate additional laboratory workflows and new applications – such as chemical preparation and traceability, instrument interfaces, bar code labels, and client portal. Staff will update all existing documents, tools, and data migration protocols to reflect new table structures. Staff will also document new protocols incorporating new LIMS features into laboratory workflows. User and administrator level training will be conducted by the vendor. Operations and maintenance costs (software licensing and support) for the upgraded software are included in the FY 2017/18 Adopted Budget.

Mission Reach Avian Study

Project Budget: \$192,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This study enhances community appreciation for and recreational use of the San Antonio River by documenting avian species along the Mission Reach, utilizing the data to demonstrate the benefits of the ecosystem restoration project and sharing information about the types and locations of avian species present in the Mission Reach with the community.

Description

The Mission Reach Avian Study is a three year study that documents avian species within the Mission Reach Ecosystem Restoration and Recreation Project. Incidental and point count surveys are used to document avian species found in the project area. The incidental survey data is being used to prepare an avian checklist for the project that will be used for a variety of education and outreach purposes. The point count survey data establishes a baseline data set that can be used in the future for statistical analysis of the project outcomes as they relate to avian habitat being provided on the Mission Reach.

Started in FY 2015/16, the three-year avian study will conclude this fiscal year. At the conclusion of FY 2017/18, the River Authority will have three years of data and analysis for the Mission Reach project that will serve as a baseline to demonstrate future benefits of the ecosystem restoration project. This project will not require operations and maintenance.

Mission Reach Erosion Repairs

Project Budget: \$1,706,916

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Mission Reach Erosion Repairs project contributes to the health and safety of the San Antonio River by protecting the hike and bike trails and reducing sediment loads within the San Antonio River along the Mission Reach.

Description

The project funds repairs to address erosion at various locations along the Mission Reach. Two types of repairs are funded – larger, specific projects that address major erosion issues in defined locations (generally requiring outside design and construction services) and smaller area repairs that can be accomplished by staff with outside assistance in some locations.

The larger project areas for erosion repair include Roosevelt Park, downstream of Mitchell Street, the confluence with San Pedro Creek, the rock wall upstream of Mission Road, downstream of Mission Parkway, upstream of Steves Avenue, upstream of Theo Avenue, and downstream of the Espada Dam. In FY 2016/17, repairs to three locations and four sites (one location was addressed on both sides of the river) were designed and constructed. The current erosion repair locations funded by Bexar County include the confluence with San Pedro Creek (east and west bank) and downstream of the Espada Dam. Erosion repairs funded by the San Antonio River Authority include the rock wall upstream of Mission Road, Roosevelt Park, downstream of Mission Parkway, and upstream of Steves Avenue.

In FY 2017/18, larger erosion repairs are planned to an area downstream of San Juan Dam, a second site downstream of Mitchell Street, upstream of Theo Avenue, and downstream of Camino Coahuilteca. The site near San Juan Dam is scheduled to be funded by Bexar County through the Operations and Maintenance Interlocal Agreement. The remaining locations will be funded by the River Authority. Smaller erosion repair locations will be prioritized and addressed as needed. The project is funded by the San Antonio River Authority Project Fund (\$1,015,000) and the Bexar County Capital Projects Fund (\$691,916). Operations and maintenance costs for these improvements are included in the FY 2017/18 Adopted Budget.

Nature Park Signage Development

Project Budget: \$93,445

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Development of park signage enhances visitors' enjoyment, understanding and knowledge of the park as well as identifying other park opportunities/locations the River Authority has to offer the public. While enjoying the parks, visitors can develop an enhanced appreciation for the San Antonio River and its tributaries.

Description

This project designs, constructs, and installs a holistic signage package that is consistent between all of the current River Authority owned nature parks; it also provides templates for all future park development. Signage includes: wayfinding signage to the park, gateway signs, maps (both to the park and within each park, print and online), directional signage for attractions, interpretive signage, and coordination with appropriate entities for applicable state and federal signage for national and state designations (i.e. El Camino Real National Historic Trail, Texas Inland Paddling Trail).

Since the start of the project in FY 2015/16, park signage design standards have been established, signs fabricated and installed in Branch River Park and John William Helton Nature Park. In FY 2017/18, additional signs ordered in FY 2016/17, will be installed at John William Helton San Antonio River Nature Park, Graytown Park on the San Antonio River, Jackson Nature Park, Branch River Park, and the Highway 97 San Antonio River access point. The project is funded by the San Antonio River Authority Project Fund (\$50,000) and the Park Resources Development Fund (\$43,445). Operations and maintenance costs associated with this signage are included in the FY 2017/18 Adopted Budget.

Olmos Creek Aquatic Ecosystem Restoration

Project Budget: \$97,000

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

The Olmos Creek Aquatic Ecosystem project includes restoration of the riparian corridor along three miles of Olmos Creek upstream of Olmos Dam. The project restores riparian habitat throughout the corridor through the removal of non-native invasive plant species and planting of native grasses, shrubs and trees. There are several partners that are leveraging funding for the project including the City of San Antonio, the City of Alamo Heights, the San Antonio River Authority and the United States Army Corps of Engineers.

Description

This project is managed by the United States Army Corps of Engineers, and the City of San Antonio serves as the Local Sponsor. This project restores riparian habitat along Olmos Creek between San Pedro Avenue and Olmos Dam. Riparian corridor restoration is accomplished through the removal of non-native invasive plants and installation of native plants including woody and herbaceous species.

This project was presented to the River Authority in FY 2013/14. During that time, the City of San Antonio and the United States Army Corps of Engineers were working towards a funding agreement. Partners in the project signed on and the River Authority was designed the project manager. With partners on board and funding secured, the project is anticipated to begin construction in FY 2017/18. The River Authority will continue to manage the project in partnership with the City of San Antonio. Upon acceptance of constructed project areas by the City of San Antonio, the River Authority will begin limited ecosystem restoration maintenance activities in these locations per the agreement with the City of San Antonio. Construction is

anticipated to end in FY 2018/19. The River Authority will incur no operations and maintenance costs as a result of this project.

Resource Conservation Partnership Program

Project Budget: \$250,000

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

The River Authority is leveraging technical assistance and outreach to assist land owners to implement conservation measures throughout the basin to improve the long term resiliency of the watershed. Through collaboration with multiple public and private partners, the River Authority assists with implementation of a Natural Resources Conservation Services (NRCS) program that allows land owners to conserve and restore riparian areas and to implement stream restoration and water quality related land management practices.

Description

The River Authority is a partner in the Texas Gulf Coast Initiative (TGCI) of the U.S. Department of Agriculture Resource Conservation Partnership Program (RCPP). The TGCI is a large-scale effort to improve water quality, water quantity, and soil health throughout a 43 county area of the Texas Gulf Coast. The TGCI region is one of the fastest growing areas in the United States and nearly half of all United States coastal wetlands are located along the Gulf. The TGCI focuses on the restoration and protection of headwater stream and wetland systems on agricultural cropland, grassland, rangeland, pastureland, and forestland within the region, to improve function and provide protections to these systems against future development impacts.

Sediment from stream erosion is a major source of pollution into stream and wetland systems. Funds are used in the River Authority's four county jurisdiction for stream/wetland restoration, best management practices, riparian/habitat enhancement, improvements to agricultural practices and other land conservation efforts. The River Authority provides matching local funds and in-kind services by coordinating efforts with the local, state, and national activities of the partnership program.

The River Authority's partnerships began in FY 2016/17, as did the efforts to identify and collaborate with potential participants. In FY 2017/18, the River Authority will continue to identify and collaborate with potential landowners/producer participants, assist with providing public outreach services as needed, help identify potential projects, provide technical assistance and support, and collaborate with the partners to develop project activities. These services will continue through FY 2018/19. The River Authority is not responsible for the operations and maintenance costs related to this project.

River Road Stream Restoration

Project Budget: \$984,001

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$0

The River Authority received grant funding from the U.S. Environmental Protection Agency (EPA) to support stream restoration as a stormwater best management practice (BMP) to address non-point source pollution in the River Road area along the San Antonio River.

Description

This project designs, constructs, and monitors restoration of a section of the Upper San Antonio River from Mulberry to Woodlawn Streets. Using this demonstration project, training will be developed and delivered to educate resource managers, designers, and contractors how to plan, manage, design, construct, and maintain stream restoration and stormwater BMPs. Funding to support this effort was provided in part by an Environmental Protection Agency (EPA) grant, administered through the Texas Commission on Environmental Quality (TCEQ).

This project began in FY 2016/17 when the River Authority was awarded Environmental Protection Agency grant funds through the Texas Commission on Environmental Quality. Contract negotiations and preliminary efforts were conducted. In FY 2017/18, the River Authority will kick-off the project's initial phase. Stream restoration and stormwater BMPs will be designed using natural channel design and low impact development techniques. Once construction is completed, monitoring will begin and the project is anticipated to close in FY 2019/20. The project is funded by the San Antonio River Authority Project Fund (\$434,000) and the Grants Fund (\$550,001). The River Authority will incur no operations and maintenance costs as a result of this project.

San Antonio Bay Ecological Dynamic Simulation (EDYS) Model Development

Project Budget: \$389,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This ecological modeling project provides the tool to improve understanding of the complex dynamics of the San Antonio Bay system, which is a necessary component for supporting conservation efforts, namely for the whooping crane management.

Description

The purpose of this Ecological Dynamic Simulation (EDYS) application is to develop an integrated model for the San Antonio Bay. The model combines multiple parameters and simulates salinity and sediment gradient dynamics resulting from outflows of freshwater from the river and tidal inputs of brackish water from the bay and the effects of these gradients on the marsh vegetation. The model can serve as a tool that would be of substantial benefit for decision making in the San Antonio River-San Antonio Bay complex and is a dynamic ecological simulation model that can integrate hydrological and ecological responses in a practical and scientifically valid manner.

In FY 2011/12, contracts were negotiated and efforts began to develop the integrated model. Over the ensuing fiscal years, a spatial footprint of the San Antonio Bay and surrounding area was created, plant communities' data collected, the hydrology aspects including river discharge, tidal and wind action on bay waters collected, as well as data on salinity, sediment, and climate fluctuations. A second phase then added data on saltwater, freshwater, and terrestrial animal

components, followed by nutrients, water chemistry, pollutants and microbial components. In FY 2017/18, the project tasks include continuation of sampling on the validation sites for vegetation and salinity data and running up to eight environmental and management practices to see the changes in the marshes and adjacent communities based on inundation and salinity of the Bay ecosystem. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Stormwater Training and Tools

Project Budget: \$165,000

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$0

This project has provided training and tools to assist the design community in utilizing River Authority recommended design options for Low Impact Development (LID) permanent stormwater best management practices (BMPs).

Description

The River Authority promotes the use of LID permanent stormwater BMPs to improve stormwater runoff management in the watershed. Updates to the San Antonio River Basin LID Technical Design Guidance Manual assists staff, government agencies, the development community, designers, construction inspectors and maintenance contractors to better apply LID and sustainable stormwater BMPs to projects that impact the health and quality of life within the basin.

This project began in FY 2015/16 by offering BMP training to installers, and a LID registration and certification training course for construction inspectors and maintenance contractors. In FY 2017/18, this project will fund professional services to facilitate a public process to update the San Antonio River Basin LID Technical Design Guidance Manual to include an additional best management practice not contained in the first edition. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Trash and Floatables Mitigation

Project Budget: \$773,525

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Trash and floatables are unsightly and require extensive labor by local government agencies and community volunteers to remove trash by hand. Trash and floatables also have adverse impacts on aquatic and riparian habitats and impede recreational use of local parks and waterways. By centralizing the collection of trash that is carried by stormwater runoff, this project will enhance the health, aesthetics, and recreational use of the creeks and rivers.

Description

The Trash and Floatables Mitigation project builds on recent trash and floatable studies within the San Antonio River Basin and results in the implementation of in-stream trash collection systems.

In FY 2016/17, the project constructed two trash collection systems, one on Riverside Creek by Riverside Golf Course and one on Alazan Creek between South Colorado and El Paso streets. After installation, a significant storm event damaged the Alazan Creek collection system. In FY 2017/18, the Alazan Creek trash collection system will be reinstalled with a redesigned system and equipment that is expected to function in storm/high water events. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Trash and Floatables Mitigation – Olmos Creek

Project Budget: \$20,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Trash and floatables are unsightly and require extensive labor by local government agencies and community volunteers to remove trash by hand. Trash and floatables also have adverse impacts on aquatic and riparian habitats and impede recreational use of local parks and waterways. By centralizing the collection of trash that is carried by stormwater runoff, this project will enhance the health, aesthetics, and recreational use of the creeks and rivers.

Description

The Trash and Floatables Mitigation – Olmos Creek project supports the River Authority's partnership on the Olmos Creek Ecosystem Restoration Project. The River Authority is responsible for the maintenance of the ecosystem project through the establishment phase. Managing trash through this trash mitigation project will make the restoration and maintenance work more efficient and effective.

In FY 2016/17, the project analyzed locations and trash collection system options for the Olmos Creek Basin. Pending funding from the City of San Antonio, a trash collector for Olmos Creek will be designed, bid, awarded and constructed in FY 2017/18. Operations and maintenance of the trash collector will be managed by the City of San Antonio.

Tributary Modeling

Project Budget: \$320,000

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

The Digital Flood Insurance Rate Map (DFIRM) effort in Bexar, Wilson, Karnes, and Goliad counties generated detailed computer models of the primary and some secondary streams within the San Antonio River Watershed. The models were used to estimate and map the one-percent annual chance flood event. Although over 1,000 stream miles were modeled, many streams were not modeled through that project and do not have Federal Emergency Management Agency (FEMA) DFIRM floodplains developed.

Description

The Tributary Modeling project creates floodplain models for the unstudied streams within the River Authority's district to serve as base models for developing Zone A floodplain boundaries for the unmapped areas and to serve as the basis for more detailed studies as needed. These new

models integrate into the River Authority's flood monitoring and response efforts as they become available and advance the science of watershed management by developing and using data and innovative models and analysis to impact decision making.

Since FY 2007/08, efforts to model unstudied streams has taken place. In FY 2016/17, the project completed studies on Tributary 9 to Ojo de Agua Watershed, Seguin Branch, and Millers Creek. The studies included the creation of floodplain models and detailed floodplain delineations. The project also began new studies on State Hospital Creek, Calaveras Creek (from US 87 to FM 1516), Unnamed Tributary 27 in Calaveras Creek, China Grove Creek, Unnamed Tributary 6 in New Sulphur Springs Creek, Calaveras Creek (from confluence with the SAR to the Bexar County line), and Unnamed Tributary 1 in Calaveras Creek. These studies will be completed in FY 2017/18. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Trueheart Park

Project Budget: \$85,000

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

This future park will provide opportunities for visitors to recreate and increase awareness and appreciation of the San Antonio River.

Description

Trueheart Park, located in southern Bexar County off Blue Wing Road along the San Antonio River, was acquired to improve and expand nature park and paddling trail opportunities as identified in the Nature Based Park Resources Plan Update. This future 300 plus acre park will allow the River Authority to offer increased nature-based recreational activities and park programs for the community. In FY 2015/16, staff worked to develop a conservation plan for the park.

In FY 2014/15, the River Authority acquired the property and master planning efforts ensued. A conservation plan was funded in FY 2015/16 and in FY 2017/18, funding will be used to increase site security and protection of the historic buildings according to the Conservation Plan. Future amenities may include paddling trail infrastructure, roadways, and other recreational enhancements will be requested. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

U.S. Geological Survey (USGS) Baseline Study - Oil and Gas Production Constituents Phase II

Project Budget: \$244,200

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

This specialized monitoring project contributes to the health and safety of the creeks and rivers by monitoring whether oil and gas production is impacting the Lower San Antonio River, Cibolo Creek and Ecleto Creek. This data assists in keeping the watershed master plans dynamic and relevant.

Description

The oil and gas production increase throughout the United States has elicited a multitude of concerns regarding the potential risks to human and environmental health (U.S. Environmental Protection Agency, 2011). The Phase I study, (2011-2013), established a baseline of a broad range of water and streambed constituents. With Phase II, the USGS revisited a subset of the sites from Phase I to determine any changes in surface water and streambed sediment quality, plus collected samples at additional sites within the Lower San Antonio River Basin to try and determine if any correlation exists between polyaromatic hydrocarbon (PAH) concentrations and impervious surface area.

In FY 2014/15, activities included surface water and streambed-sediment sampling, and an initial land cover analysis in Wilson, Karnes, DeWitt, and Goliad Counties. Since then, sampling and analysis continues within the Lower San Antonio River, Cibolo and Ecleto Creek. For FY 2017/18, Phase II activities include water and streambed-sediment sampling and analysis, land cover analysis, and data interpretation. In addition, the report documenting this activity will be published for the Lower San Antonio River, and Cibolo and Ecleto Creeks. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Urban Reach Operations Center

Project Budget: \$1,200,000

Estimated Completion Date: FY 2018/18

Estimated Future Operations and Maintenance Costs: \$0

The new Urban Reach Operations Center provides a permanent home for the Watershed and Park Operations staff that work on the Museum Reach portion of the San Antonio River. The former facility used by staff was leased and was very inefficient. The staff working on the Museum Reach improve the visitor experience and help maintain water quality.

Description

Watershed and Parks Operations (WPO) staff that maintain the Museum Reach resided in a location near this stretch of the river. However, public improvements underway required the staff to relocate. The River Authority purchased a new building at 814 McCullough Avenue to utilize as the Urban Reach Operations Center as a permanent home for the WPO staff working on the Museum Reach. This project included purchase of the facility, renovations to make it efficient and effective for the staff and equipment needed at the facility.

The purchase was completed in FY 2015/16; renovations were completed early in FY 2016/17. In FY 2017/18, the project will close-out all remaining activities. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

U.S. Geological Survey (USGS) Lower San Antonio River Groundwater/Surface Water Interaction Modeling

Project Budget: \$111,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This collaborative study with the United States Geological Survey (USGS) develops a groundwater/surface water model, which is a tool for understanding the interaction between groundwater and surface water resources of the Lower San Antonio River Basin. This provides the River Authority with the avenue to understand and plan for the implications of changing infiltration and exploitation of groundwater resources on the surface waters of the lower basin.

Description

This project addresses the impact of groundwater use and decreased recharge by compiling appropriate datasets and, if sufficient data are available, developing a groundwater model to simulate stream-aquifer interactions and potential contaminant pathways to surface waters. The project is being conducted in cooperation with the USGS and produces an analysis of various scenarios that can be used for both planning and assessment purposes.

Beginning in FY 2013/14, this project began development of a groundwater model to simulate groundwater interaction with surface water. In FY 2017/18, the project will use the groundwater model previously developed to simulate groundwater interaction with surface water under multiple scenarios representing both changes in recharge and increases in groundwater exploitation. The simulations will be analyzed to identify the potential impacts on the lower basin streams and river. These results will be interpreted and published in scientific literature. No operations and maintenance expenditures are anticipated from this project.

The University of Texas at San Antonio (UTSA) Sediment Source Mobility

Project Budget: \$110,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This collaborative study with the University of Texas at San Antonio (UTSA) enhances the River Authority's capability to protect and restore the basin's streams and rivers including sustaining habitat for key species such as mussels. The project acquires data regarding sources of gravel substrates as well as parameters contributing to stream restoration potential.

Description

Long term river management strategies addressing channel stability and riverine habitat are dependent on understanding current and future sediment transport functions. The purpose of this project is to quantify the sources and mobility of streambed sediments in the lower San Antonio River with special attention to gravel-sized sediment. The project identifies the sources of coarse-grained material and the impact on the size distributions of streambed sediment. In addition, the study assesses the mobility and transport rates of sediment with an emphasis on the larger sediment sizes present in the streambed. The study identifies tributaries that are significant sources of bed sediments, quantifies the bed form regime occurring in the San Antonio River and its influence on sediment transport and channel stability, and evaluates the performance of predictive sediment transport functions given these new reach-specific insights. An understanding of sediment characteristics and their sources is essential as the River Authority interacts with the U.S. Fish and Wildlife Service regarding the impending listing of the Golden Orb mussel as an endangered species.

In FY 2016/17, field work consisting of identifying gravel sources and collecting samples at sedimentary structures on channel bars was started and in FY 2017/18 this activity will be completed, as well as efforts to collect additional channel geometric parameters at the sediment sample sites. The data will be compiled and analyzed. The information derived from this study will be included in the San Antonio River Basin Natural Channel Design Protocol. No operations and maintenance expenditures are anticipated from this project.

Water Quality Data Analytics

Project Budget: \$80,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The development and use of the water quality data analytics tool strengthens and develops the expertise of the users and developers. The tool assists staff in analyzing large amounts of water quality data in a shorter amount of time and to explore the data to develop operational conclusions. This expertise, along with the data collected by the River Authority can be used to generate lasting improvements to the health and safety of creeks and rivers.

Description

While the River Authority collects extensive water quality and biological data, the technical analysis of the data to draw conclusions is an intensive process. This project develops a tool that facilitates the process of exploring environmental data. By being able to efficiently assess the data, staff can draw conclusions that assess the condition of the watershed, develop recommendations for addressing watershed concerns and impairments, and improve future sampling plans.

This project began in FY 2015/16 with the scoping and testing of data analysis tools for rapid statistical analysis of water quality data. Stakeholders collaborated on the interface and technical structure of the tool. In FY 2017/18, the tool will be refined and tested. Staff will receive additional MATLAB training in advanced statistics that are useful for analyzing ecological data. MATLAB, short for matrix laboratory, is a computer programming language developed for computing large amounts of data. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Watershed Master Plans Integration

Project Budget: \$50,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Watershed Master Plans Integration project supports the implementation of watershed solutions and the advancement of the science of watershed management through the use of geographic information systems' (GIS) tools and modeling data.

Description

This project combines the analysis and recommendations from various watershed master plans developed by the River Authority to strategically identify and target watershed solutions. A multi-

departmental team reviews the recommendations, standardizes the data, determines how to incorporate recommendations into existing initiatives, and proposes new initiatives.

Work began on integrating the geospatial data sets and model, as well as developing an action plan for implementing the watershed master plan recommendations within the River Authority and with partners in each watershed in FY 2016/17. In FY 2017/18, the data sets and action plan will be completed, and meetings will be held with partners in each watershed to share the relevant recommendations and data. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Watershed Wise River Discovery

Project Budget: \$267,500

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: unknown

The Watershed Wise River Discovery is a multi-faceted outreach and educational project that collects data and information from multiple sources, and presents it through the www.sara-tx.org website to reach a wide audience to enhance community appreciation and recreation for the watershed.

Description

This project, which was initiated in FY 2016/17, provides various informative and interactive modules to include water quality, aquatic and riparian ecosystems, recreation, bays and estuaries, and historical information including the acequias, geology, and economic uses.

The major public outreach and educational outcomes of the project include improvements to the River Authority's website that involves: the most citizen-relevant information, a combination of GIS and recreation information, digital media and interactive components, design and integration that encourage exploration and discovery, demonstration of the River Authority's watershed expertise, and inspiring actions for healthy creeks and rivers.

In FY 2017/18, the project will continue to gather the information and digital media (videos, graphics, data, dynamic maps) necessary to complete and make available to the public two of the topic modules, Water Quality and Recreation, as well as compile the copy and digital media towards fifty percent completion of the remaining modules. This phase of the project will be finalized and made available to the public in FY 2018/19. The project will require additional operations and maintenance expenditures by the River Authority. However, these cannot yet be quantified as the project is still in its early phases.

Watershed Wise Rebate Program

Project Budget: \$1,370,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This project complements and enhances the results of the additional requirements included in the City of San Antonio's 2015 Unified Development Code (UDC) and is a tool by which to generate improvements to the health of the creeks and rivers.

Description

Low impact development (LID) is a new concept for many developers and design professionals. To provide an incentive for developers and designers to learn about and to incorporate LID into their design plans, the River Authority developed a rebate program. Through this program, the River Authority assists in covering LID costs where those costs reflect an increase over traditional design requirements.

Started in FY 2015/16, River Authority staff developed the rebate program's application requirements, marketed the program and began accepting applications. The first rebates were awarded in FY 2015/16 and continued into FY 2016/17. During FY 2017/18, the River Authority will continue to promote the rebate program, accept, evaluate and award rebates where LID is incorporated in the design plans. Also in FY 2017/18, the Watershed Wise School Grant program is included under this rebate program. Schools (K through 12) in the four counties served by the River Authority can apply for funding in this program to design and build a rain garden or select other green infrastructure best management practices for on-site stormwater management. The schools are responsible for operation and maintenance of the installed green infrastructure. No operations and maintenance expenditures are anticipated from this project.

Watershed Wise School Grant

Project Budget: \$175,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This project provides an educational demonstration of watershed solutions with an emphasis on managing stormwater quality to enhance local creeks and rivers. These school grants have been consolidated with the Watershed Wise Rebate Program.

Description

Up to \$22,000 has been provided to each recipient school in the four counties served by the River Authority to design and build a rain garden or select other green infrastructure best management practices for on-site stormwater management. The winning schools are responsible for operation and maintenance of the installed green infrastructure.

This activity as a separate project will close out in FY 2017/18 with the completion of the FY 2016/17 school grant projects. In FY 2017/18, schools will apply for funding under the Watershed Wise Rebate Program. No operations and maintenance expenditures are anticipated from this project.

Westside Creeks Linear Creek Trails and Elmendorf Lake Park

Project Budget: \$40,469,894

Estimated Completion Date: FY 2020/21

Estimated Future Operations and Maintenance Costs: \$0

The Westside Creeks Restoration Project Conceptual Plan, adopted in June 2011 by the River Authority's Board of Directors, has served as the catalyst for the Elmendorf Lake Park Improvements project, Linear Creekway Trails project, United States Army Corps of Engineers General Reevaluation Report, and the San Pedro Creek Improvements Project. The community-based plan, overseen by the Westside Creeks Restoration Oversight Committee, set out to develop concepts to restore the Alazan, Apache, Martinez, and San Pedro Creeks ecosystem, maintain or enhance the current flood components of these creeks, improve water quality, and provide opportunities for people to enjoy these creeks.

Together, these projects advance the goals of watershed health and safety, community appreciation and recreation, and implanting watershed solutions.

Description

Through the voter approved Proposition 2 in 2010, the City of San Antonio funded segments of linear creekway trails along the Westside Creeks. The Apache and San Pedro Creeks trail connected Elmendorf Lake Park to the San Antonio River. The 10-foot wide trail included amenities such as shade structures, drinking fountains, signage, and seating. The Alazan Creek trail connected Woodlawn Lake Park to West End Park, and along Martinez Creek, the trail connected Fredericksburg Road to Cincinnati Avenue. The Martinez Creek segment included multimodal connections by linking VIA Metropolitan Transit's Primo bus station to the creekway trail and a bike lane along Cincinnati Avenue that extends into Woodlawn Lake Park. The design and construction of these improvements was managed by the River Authority and completed in 2016. In May 2015, the voters approved another proposition that funds additional Linear Creekway Trails segments along the Westside Creeks. The River Authority manages these projects to completion.

The Elmendorf Lake Park Improvements Project, completed in 2016, was approved by City of San Antonio voters in 2012 with the passage of the 2012 bond, and received additional funding from Bexar County for flood control and water quality enhancements around the lake. The improvements included recreational enhancements such as shade structures, a playground and splash pad, additional bridge crossings over the lake, a pier, trails, picnic areas throughout the park and an improved park plaza for large gatherings. In addition to the recreational elements, water quality best management practices (BMPs) were installed and included fountains and aerators in the lake, rain gardens and bioswales, shoreline invasive plant removal, and a recirculating water feature.

In FY 2017/18, the River Authority will administer the design and future construction of a second phase of trails along the Alazan, Martinez, and Zarzamora Creeks. The Alazan Creek trail will extend from Lombrano Street to the confluence with Apache Creek near Laredo Street. The Martinez Creek trail will extend from Cincinnati Avenue to the confluence of Alazan Creek at Mario Farias Park. The Zarzamora Creek trail will extend from General McMullen to Alderete Park, located on Aurora Avenue and NW 36th Street. These trails will be 10-feet in width and will include amenities such as trail heads, seating, and signage. Construction is projected to begin on the first two segments of these improvements in January 2019. The project is funded by San Antonio River Authority Project Fund (\$75,000), the Bexar County Westside Creeks Restoration

Fund (\$7,000,000) and the Westside Creeks City of San Antonio Fund (\$33,394,894). The River Authority will not be responsible for operations and maintenance on this project.

Westside Creeks San Pedro Creek

Project Budget: \$105,628,018

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: approximately \$2.0 million

Bexar County and the River Authority, in coordination with the City of San Antonio, are completing the first phase of the San Pedro Creek Improvements Project, which will transform the creek to reflect its place in our cultural history, improve its function in flood control, revitalize natural habitat and water quality, and promote economic development. Under the construction manager at risk contract for this project, construction in Segment 1 of Phase 1 has begun even as design elements are being finalized. The project starts at the tunnel inlet near Fox Tech High School and winds through the western side of downtown to the creek's confluence with the Alazan and Apache Creeks. The project includes four miles of trails and eleven acres of landscaped area and will remove approximately 30 acres and 38 adjacent structures from the 100-year flood plain. Through partnerships, this project is diversifying and leveraging funding and building upon employee expertise.

Description

Bexar County and the River Authority authorized the use of an alternative delivery method, construction manager at risk (CMAR), in December 2015 to maintain the project schedule. The CMAR was hired in June 2016. Also in June 2016, Bexar County entered into an agreement with the River Authority to manage the construction of the project. Segment 1 of Phase 1, between the San Pedro Creek flood control inlet tunnel and Houston Street, will be completed by May 2018 in celebration of the 300th anniversary of the City of San Antonio.

The project's design progressed while construction began in FY 2016/17. Construction on the utilities in Phase 1 began in late December of 2016 and full project construction began in January of 2017. The 100 percent design of Phase 1 and 2 will be completed by July 2017.

In FY 2017/18, the project will complete all construction of Segment 1, Phase 1 in time for the City of San Antonio's tricentennial celebration in May 2018, and will begin construction of Phases 1 and 2, to be complete by mid-2019. The project is funded by the San Antonio River Authority Project Fund (\$20,000), the San Antonio Capital Improvement Project Land Sales Fund (\$435,000), Bexar County Westside Creeks Restoration Fund (\$97,557,040) and Other Capital Projects Fund (\$7,615,978). The San Antonio River Authority will provide operations and maintenance along this newly developed area. The costs are still being finalized and negotiated with the City of San Antonio. Estimated costs for operation and maintenance are currently \$2.0 million. The activity will require the addition of personnel as well as contraction services and supplies expenditures.

NEW PROJECTS

Clean Rivers Program 2017/San Antonio River Authority Stream Monitoring

Project Budget: \$23,000

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$0

The Texas Clean Rivers Program (CRP) funded by the Texas Commission on Environmental Quality (TCEQ) with additional funding support from the River Authority, supports the River Authority's routine surface water quality data collection within the San Antonio River basin. The CRP provide for the analysis and data gathered management of surface water samples collected throughout the basin. CRP produces quality assured water quality data for the assessment of current water quality conditions and identify long-term trends. Information is shared with the community and stakeholders. The CRP has been ongoing since 1992.

Description

The CRP and the River Authority's Stream Monitoring Project utilize a watershed approach to address impairments, concerns, and long-term trends to generate lasting and recognized improvements to the health and safety of our creeks, rivers, estuaries and bays. The CRP will collect, analyze, and manage surface water quality data collected throughout the San Antonio River basin. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Digital Data and Model Repository (D2MR) Redevelopment

Project Budget: \$140,000

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$0

This software application continues development to host and facilitate the review of hydrological models. The engineering community can then easily download the required models and supporting data to begin the Federal Emergency Management (FEMA) Conditional Letter of Map Revision (C/LOMR) process, upload a FEMA C/LOMR study for FEMA review, notify users of overlapping studies based on information provided at the time of a request, and allow for the storage and distribution of the baseline model and all the required models for a C/LOMR in the study area.

Description

The Digital Data and Model Repository (D2MR) Redevelopment project focuses on building a new web application for discovery and accessibility to hydraulic and hydrology modeling data and supports the River Authority's LOMR Delegation Program and OpenData initiatives. This project revisits the storage solutions, modeling data organization, and available data technologies that allow for optimized storage and reduced long-term management. The project decouples core components so they become focused and tuned for performance and optimal functionality, allowing for more widespread integration through the web and desktop environments. The key technology objectives of this project include: increasing accessibility to modeling data, enhancing search ability of the modeling repository, optimizing web performance for mobile and tablet devices, and reengineering the user experience for external users and River Authority staff. The

key business objectives of the project include: enhanced administrative features for tracking, reporting specifically in support of LOMR delegation and the River Authority's modeling activities, integration with ArcGIS Online infrastructure for streamlined geospatial data management, and development of new enhanced features that would allow end-users to explore and utilizing data through REST data services.

In FY 2017/18, the project will focus on redesigning the data repository data structure, developing the repository search and data retrieval solution, and documenting the business requirements and functional needs to inform the following phases of this project. The search and data retrieval solution will allow for this tool to be used and integrated with other systems, if needed, and afford significant flexibility in future development cycles. The business requirements and functional needed will explicitly document the features needed to support various internal and external business processes; this item will be used to guide the next phases of redevelopment of the D2MR platform. Operation and maintenance will be similar to other GIS data and applications, and will be accomplished through regular GIS maintenance activities by existing staff.

Facilities Acquisition/Improvements

Project Budget: \$600,000

Estimated Completion Date: unknown

Estimated Future Operations and Maintenance Costs: varied

The River Authority has various needs and opportunities for facilities acquisition and improvements including additional administrative space, a location for Watershed and Park Operations staff to use to serve San Pedro Creek improvements once completed, and replacement of aging infrastructure in existing facilities. The River Authority is working to finalize a facilities expansion plan. This funding can help further the plan as well as improve the working environment.

Description

A portion of the Unrestricted Reserve in the San Antonio River Authority Project Fund has been moved to the new Facilities Acquisition/Improvements Project. This funding will be used for three specific purposes during FY 2017/18 with additional funding available as projects and opportunities are pursued. Two of the purposes involve improvements to the heating and air conditioning (HVAC) systems at the Guenther and Euclid facilities. At the Guenther location, a study will be completed and recommendations will be made regarding the most efficient replacement system and the estimated cost. At the Euclid location, funding will be used to complete short term, cost effective system reconfigurations to provide appropriate room temperatures without major investments. In addition, funds from this project will be used for consulting services from a commercial real estate and development firm(s). The firm(s) will assist the River Authority in evaluating various options and proposals for an administrative facility. The HVAC systems improvements are anticipated to reduce operating expenditures by providing more efficient heating and cooling for the facilities. In the long term, acquisition and/or construction of a new, larger facility(s), will increase operating costs as a result of more square footage to heat, cool and maintain.

Impervious Cover Mitigation

Project Budget: \$270,000

Estimated Completion Date: FY 2020/21

Estimated Future Operations and Maintenance Costs: \$0

To lead the technical analysis of impervious cover impacts and stormwater runoff to influence mitigation and policy decisions, the River Authority utilizes GIS impervious cover data layers, historic water quality and flow data, water quality and hydrology and hydraulic models, and economic analyses to quantify impacts of unmitigated and mitigated development on receiving watersheds. The River Authority's work will result in technical and economic assessments and mitigation, messaging, and policy recommendations. The River Authority's results will contribute to the City of San Antonio's SA Tomorrow Comprehensive and Sustainability Plan discussions.

Description

In August 2016, the City of San Antonio City Council approved a Comprehensive Plan, a Sustainability Plan, and a Transportation Plan under the name SA Tomorrow. SA Tomorrow identifies 13 regional centers throughout the City that will see significant growth in the upcoming 23 years and addresses the new development within those centers to accommodate a projected 1.1 million new residents. SA Tomorrow addresses to impervious cover, its potential impacts on flood management and water quality, and potential policy changes that may result as the SA Tomorrow plan moves into its implementation phase. The River Authority is uniquely qualified to provide science-based technical data and analyses to foster the City's efforts in establishing sound policy to mitigate any impacts of increased impervious cover on San Antonio watersheds.

In FY 2017/18, funding will allow River Authority staff to conduct technical and economic analyses and flood management and/or water quality mitigation, messaging, and policy recommendations on two of the City's four Year One priority regional centers. Operations and maintenance costs are included in the FY 2017/18 Adopted Budget.

Museum Reach Electrical Infrastructure Upgrade

Project Budget: \$360,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: unknown

The electrical infrastructure at Museum Reach will be updated to accommodate additional events and activities, as well as increase electrical efficiency. As the River of Lights event has increased over the years, light poles have been modified with electrical outlets to support additional holiday lighting. With this past year's event, the electrical infrastructure reached capacity and there is a need for additional outlets and possibly new circuits.

In addition to the holiday lighting needs, improved lighting is sought throughout the Museum Reach, which may include light-emitting diode (LED) lighting and additional outlets.

Description

In this first phase, electrical improvements will be made from Lexington to Brooklyn, including lighting and light pole improvements, new circuits and additional outlets.

In FY 2017/18, site plans will be completed, an electrical load study will be done and the infrastructure from Lexington to Brooklyn will be updated. The operations and maintenance expenditures will increase as a result of additional lighting. However, some efficiencies may also be achieved through the project that may reduce existing costs, offsetting to some extent the costs associated with expanding the system.

Brooks City Base - Mission Reach Linkage

Project Budget: \$133,161

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Brooks City Base – Mission Reach Linkage project supports increased attendance, improved visitor experience and access to the San Antonio River Mission Reach.

Description

The project is a trail connection between the San Antonio River Mission Reach and Brooks City Base. The approximate 2/10 mile long, 10-foot wide, hike and bike trail begins at Corpus Christi Road. The connection at Corpus Christi Road includes pavement markings and signage at street level to signify the crossing. The trail continues west crossing an acequia located north of a tributary to the San Antonio River. The trail passes through the existing box culvert at South Presa Street and follows along the north side of the tributary to the San Antonio River. The trail then continues through the existing Union Pacific Railroad right-of-way and tie into the existing Mission Reach Trail.

In FY 2017/18, the River Authority will bid and award the project and begin construction. Construction is expected to be completed in March 2018. This project is funded in the FY 2017/18 Adopted Budget in the Other Capital Projects Fund (\$133,161). The San Antonio River Authority Project Fund does not include any funding for the project; however, this is an authorized project in this fund. The River Authority will not be responsible for operations and maintenance along these improvements.

Mann’s Crossing Park on the Medina River

Project Budget: \$0

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: unknown

Future development of Mann’s Crossing Park will promote enhanced community appreciation for and recreational usage of the Medina River and its natural resources.

Description

Formerly referred to as the Catfish Farm/Medina Paddling Trail, the long-term vision for this property is to develop recreational enhancements while preserving the natural beauty and character of the property adjoining the Medina River. Additionally, this site will provide an access point along the Medina River for a paddling trail.

The project, in FY 2017/18, will expend staff time to investigate activities such as a vehicular park entrance and exit, and possible park master plan. Should improvements occur as a result of these planning efforts, additional operations and maintenance costs may be incurred. These are unknown at this time.

River Crossing Park River Access Reconstruction

Project Budget: \$0

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

River Crossing Park serves as the trail head of the SASPAMCO Paddling Trail located in Bexar County near the City of Elmendorf. Recent storm events damaged the river access and the park is currently closed until river access can be provided. This access helps encourage use of the park and trail by citizens and community groups.

Description

The River Crossing Park sustained considerable damage to the river access stairs and bank during recent storm/high water events. The bank was eroded and the steps were washed away. The project will examine design solutions to stabilize the banks and reinstall the steps returning the River Crossing Park back to full use by the public.

In FY 2017/18, staff will evaluate options for returning public river access to the park. The proposed solution will be designed to withstand future high water events. Operations and maintenance costs associated with a crossing in this area are included in the FY 2017/18 Adopted Budget.

Stone Oak Park Dam Spillway Repair

Project Budget: \$500,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Neighboring developers deposited construction debris and cut a road on the auxiliary spillway of Stone Oak Park Dam (Salado 8), impacting the functionality of the dam and, therefore, the health and safety of the neighboring community.

Description

This project will remediate the impact of the development activity on the Stone Oak Park Dam. The project will be funded by Bexar County and managed by River Authority staff.

In FY 2017/18, the project will remove the construction debris and repair the damage caused by the road that was cut into the auxiliary spillway and was used to access the development. The project is funded by the Bexar County Capital Project Fund (\$500,000). The San Antonio River Authority Project Fund does not include any funding for the project; however, this is an authorized project in this fund. Operations and maintenance costs would be absorbed within the appropriation levels for FY 2017/18. No additional staffing would be required.



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

PARTNER FUNDED CAPITAL IMPROVEMENT PROJECT FUNDS



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

San Antonio River Authority
 Bexar County Capital Improvements Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 13

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 4,264,708	\$ 3,365,752	\$ 47,230	\$ 851,726
TOTAL AVAILABLE FUNDS	\$ 4,264,708	\$ 3,365,752	\$ 47,230	\$ 851,726

APPROPRIATIONS

Projects

BCCIP - Completed Projects	\$ 2,821,708	\$ 2,821,708	\$ -	\$ -
BCCIP - Cimarron Subdivision CB9	9,000	5,527	140	3,333
BCCIP - Elm Ck @ Pearsall MR11	15,000	1,265	1,110	12,625
BCCIP - Espada Road	714,000	245,270	611	468,119
BCCIP - French Creek LC23	105,000	56,638	23,377	24,985
BCCIP - Huebner Creek LC17	210,000	198,545	495	10,960
BCCIP - Kirkner Road SA46	36,000	20,498	-	15,502
BCCIP - Medio Ck Sunset MR32	30,000	5,960	1,092	22,948
BCCIP - North Talley Road MR10	26,400	-	-	26,400
BCCIP - Pecan Creek/Toutant Beauregard LC34	39,600	-	115	39,485
BCCIP - Perrin Beitel SC9	12,000	4,005	-	7,995
BCCIP - S. Hausman @ French Ck LC5	36,000	4,845	20,290	10,865
BCCIP - Six Mile Creek SA43	195,000	1,491	-	193,509
BCCIP - Woodlawn at 36th Street SA55	15,000	-	-	15,000

Total Project Expenditures	\$ 4,264,708	\$ 3,365,752	\$ 47,230	\$ 851,726
TOTAL APPROPRIATIONS	\$ 4,264,708	\$ 3,365,752	\$ 47,230	\$ 851,726

Description

The Bexar County Capital Improvement Projects Fund accounts for the budget and expenses related to the River Authority's efforts to assist Bexar County with capital improvement projects they fund. Bexar County reimburses the River Authority for all expenses related to these projects.

The following describes the project that is currently active in this fund.

Projects

Bexar County Capital Improvement Program – Real Estate Acquisitions

Project Budget: \$4,264,708

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Bexar County Commissioners Court approved a \$500 million flood control capital improvements program in 2007. Projects within the program include regional stormwater facilities, low water crossings, natural waterway conveyances (channelization), outfall structures and buyouts located throughout Bexar County. River Authority staff provides real estate acquisition services for the program including negotiations for property rights and relocation with property owners under the threat of eminent domain. The seventh amendment to the interlocal agreement with the County identified a total of 45 projects. This includes the addition of two projects and removal of two projects included in the sixth amendment. The completed projects as of FY 2015/16 are Balcones Heights SA38, Briggs Road MR28, Bulverde Road SC27, Cacias Road SA45, Calaveras 8 SA41, Concepcion Creek SA48, Evans Road SC2, Grosenbacher Road MR30, Hausman Road LC9 and LC10, Henze Road SA47, Huebner Creek LC15, Ingram Road LC8, Jones Maltsberger SC28, Knoll Creek SC4, Laddie Place SA2, Live Oak Slough MR27, Luckey Road MR29, Menger Road SC12, Old Fredericksburg LC27, Prue Road at French Creek LC6, Real Road SA17, Rock Creek I SA6, Roland Avenue SC18, Rosillo Creek SC15, South New Braunfels SA8, Schaefer Road CB19, Shane Road SA4, Shepherd Road MR8, Elm Forest at Turtle Cross MR31, VFW Drainage SA44, Whisper Creek LC19

During FY 2017/18, work will continue on the remaining thirteen projects to complete property acquisitions and relocations. All acquisitions and relocations are being conducted on behalf of Bexar County and any operations and maintenance responsibilities would be managed by Bexar County.

San Antonio River Authority
 Bexar County Capital Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 59

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 9,599,116	\$ 5,267,959	\$ 1,430,704	\$ 2,900,453
TOTAL AVAILABLE FUNDS	\$ 9,599,116	\$ 5,267,959	\$ 1,430,704	\$ 2,900,453

APPROPRIATIONS

Projects

Parita Creek Dam Rehabilitation (<i>previously Calaveras 10</i>)	\$ 3,091,140	\$ 2,220,647	\$ 809,539	\$ 60,954
Binz Engleman, Martinez, Escondido Dam Rehabilitations (<i>previously Martinez 1, 2, 3</i>)	5,316,060	3,047,312	621,165	1,647,583
Mission Reach Erosion	691,916	-	-	691,916
Stone Oak Park Dam Spillway Repair (<i>previously Salado 8</i>)	500,000	-	-	500,000

Total Project Expenditures	\$ 9,599,116	\$ 5,267,959	\$ 1,430,704	\$ 2,900,453
TOTAL APPROPRIATIONS	\$ 9,599,116	\$ 5,267,959	\$ 1,430,704	\$ 2,900,453

Description

The San Antonio River Authority partners with Bexar County to complete capital improvement projects that address flood control. This Bexar County Capital Projects Fund is used to account for budgets and expenditures for these projects. Bexar County reimburses the River Authority for expenses incurred. The following describes the projects currently active in this fund.

Projects

Parita Creek (Calaveras 10) Dam Rehabilitation

Project Budget: \$6,466,140

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Parita Creek (Calaveras 10) Dam Rehabilitation results in improvements that bring the dam to current Texas Commission on Environmental Quality (TCEQ) standards. Improvements include earthwork to increase the height of the dam and improve the auxiliary spillway. The River Authority is responsible for the operation and maintenance of the dam to assure it functions as designed and constructed. This project is funded from multiple sources: 14 percent by the Texas State Soil and Water Conservation Board (TSSWCB), 65 percent by the Natural Resources Conservation Service (NRCS), and the remainder from Bexar County. The NRCS and TSSWCB funding for these projects is accounted for in the Grants Fund. The design is being administered through the River Authority. River Authority staff also provides construction administration and project management services through construction. These improvements have been designed to provide control of floodwaters in the basin, thereby protecting human life and property in the downstream affected areas.

Construction of the Parita Creek (Calaveras 10) dam improvements is complete and the remaining inundation easements have been acquired. The project will be completed under budget. Bexar County will determine the use of the remaining available funds; the most likely use of the funds is improvements to the Stone Oak Park Dam Spillway. The project is funded by the Grants Fund (\$3,375,000) and Bexar County Capital Project Fund (\$3,091,140). Operations and maintenance costs for these dams are included in the FY 2017/18 Adopted Budget.

Binz Engleman, Martinez Creek and Escondido (Martinez 1, 2 and 3) Dams Rehabilitation

Project Budget: \$12,840,560

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This project improves Binz Engleman Dam (Martinez 1), Martinez Creek Dam (Martinez 2) and Escondido Creek Dam (Martinez 3) to current Texas Commission on Environmental Quality (TCEQ) standards. Improvements primarily include earthwork to increase the height of the dams and to improve the auxiliary spillways. According to the project plan and the operation and

maintenance agreement for the rehabilitation project, the River Authority is responsible for the operation and maintenance of the dams to assure they function as designed and constructed. This project is funded by Texas State Soil and Water Conservation Board (TSSWCB) up to 14 percent; the Natural Resources Conservation Service (NRCS) funds 65 percent; and the remainder is funded by Bexar County. The design is being administered through the River Authority. River Authority staff also provides construction administration and project management services through construction.

The dams are an important component in controlling floodwaters in the basin and protecting creeks and rivers. Construction of the improvements at all three dams will be completed in FY 2017/18. The project is funded by the Grants Fund (\$8,318,500) and Bexar County Capital Project Fund (\$5,316,060). Operations and maintenance costs for these dams are included in the FY 2017/18 Adopted Budget.

Mission Reach Erosion Repairs

Project Budget: \$1,706,916

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Mission Reach Erosion Repairs project contributes to the health and safety of the San Antonio River by protecting the hike and bike trails and reducing sediment loads within the San Antonio River along the Mission Reach.

The project funds repairs to address erosion at various locations along the Mission Reach. Two types of repairs are funded – larger, specific projects that address major erosion issues in defined locations (generally requiring outside design and construction services) and smaller area repairs that can be accomplished by staff with outside assistance in some locations.

The larger project areas for erosion repair include Roosevelt Park, downstream of Mitchell Street, the confluence with San Pedro Creek, the rock wall upstream of Mission Road, downstream of Mission Parkway, upstream of Steves Avenue, upstream of Theo Avenue, and downstream of the Espada Dam. In FY 2016/17, repairs to three locations and four sites (one location was addressed on both sides of the river) were designed and constructed. The current erosion repair locations funded by Bexar County include the confluence with San Pedro Creek (east and west bank) and downstream of the Espada Dam. Erosion repairs funded by the San Antonio River Authority include the rock wall upstream of Mission Road, Roosevelt Park, downstream of Mission Parkway, and upstream of Steves Avenue.

In FY 2017/18, larger erosion repairs are planned to an area downstream of San Juan Dam, a second site downstream of Mitchell Street, upstream of Theo Avenue, and downstream of Camino Coahuilteca. The site near San Juan Dam is scheduled to be funded by Bexar County through the Operations and Maintenance Interlocal Agreement. The remaining locations will be funded by the River Authority. Smaller erosion repair locations will be prioritized and addressed as needed. The project is funded by the San Antonio River Authority Project Fund (\$1,015,000) and the Bexar County Capital Projects Fund (\$691,916). Operations and maintenance costs for these improvements are included in the FY 2017/18 Adopted Budget.

Stone Oak Park Dam Spillway Repair

Project Budget: \$500,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Neighboring developers deposited construction debris and cut a road on the auxiliary spillway of Stone Oak Park Dam (Salado 8), impacting the functionality of the dam and, therefore, the health and safety of the neighboring community. This project will remediate the impact of the development activity on the Stone Oak Park Dam. The project will be funded by Bexar County and managed by River Authority staff.

In FY 2017/18, the project will remove the construction debris and repair the damage caused by the road that was cut into the auxiliary spillway and was used to access the development. The project is funded by the Bexar County Capital Project Fund (\$500,000). The San Antonio River Authority Project Fund does not include any funding for the project; however, this is an authorized project in this fund. Operations and maintenance costs would be absorbed within the appropriation levels for FY 2017/18. No additional staffing would be required.

San Antonio River Authority
 Bexar County San Antonio River Improvements Flood Tax Fund
 Fiscal Year Ending June 30, 2018

Fund: 51

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 169,529,870	\$ 158,029,833	\$ 551,337	\$ 10,948,700
Investment Income	14,006	-	9,006	5,000
Transfers	48,121	-	48,121	-
TOTAL AVAILABLE FUNDS	\$ 169,591,997	\$ 158,029,833	\$ 608,464	\$ 10,953,700

APPROPRIATIONS

Projects

Museum Reach - Park Segment	\$ 3,893,565	\$ 3,320,581	\$ 410,604	\$ 162,380
Museum Reach - Urban Segment			-	-
Mission Reach	155,650,311	154,709,252	149,739	791,320
Bexar County Reimbursement	10,048,121	-	48,121	10,000,000

Total Project Expenditures	\$ 169,591,997	\$ 158,029,833	\$ 608,464	\$ 10,953,700
TOTAL APPROPRIATIONS	\$ 169,591,997	\$ 158,029,833	\$ 608,464	\$ 10,953,700

Description

The San Antonio River Authority partners with the City of San Antonio, Bexar County and the U.S. Army Corp of Engineers to complete capital improvement projects that address flood control, water quality and recreational opportunities. This Bexar County Flood Tax Fund is used to account for budgets and expenditures for flood control components of these projects funded by Bexar County. The County reimburses the River Authority for all expenses incurred.

The following describes the projects that are currently active in this fund.

Projects

San Antonio River Improvements - Museum Reach - Park Segment

Project Budget: \$13,974,172

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Museum Reach – Park Segment project, a component of the San Antonio River Improvements project funded by the City of San Antonio and Bexar County, along with support from the River Authority, involves infrastructure improvements that address flood control, amenities for the community and tourists, ecosystem restoration, and recreational opportunities in and along the river, north of U.S. Highway 281 and south of Hildebrand Road.

The last part of this project extends the Museum Reach Park Segment trail system to include Trail 17 – which is located on Tuleta Street east to Broadway and west to Red Oak Drive. The FY 2017/18 Budget includes funding to complete these trail segments. The deliverables include concrete sidewalks, electrical, demolition, signage, asphalt paving, cast-in-place concrete and storm drainage work.

The project is funded by the City of San Antonio Capital Improvements Project Fund (\$10,003,477), the Bexar County San Antonio River Improvements Flood Tax Fund (\$3,893,565) and Other Capital Projects Fund (\$77,130). The River Authority is not responsible for operations and maintenance on this improvement.

San Antonio River Improvements - Mission Reach

Project Budget: \$195,667,568

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Mission Reach project is a joint effort between the U.S. Army Corps of Engineers (USACE), Bexar County, City of San Antonio, and the San Antonio River Authority to provide ecosystem restoration while maintaining or improving flood reduction benefits to the San Antonio River from Lone Star Boulevard to Mission Espada. The San Antonio River Oversight Committee provided

public direction and input. Preliminary authorization for the Historic Mission Reach was substantially completed in October 2003. The locally prepared design with modifications was selected by the USACE as the preferred plan; final design began in October 2004. Through the co-commitment of local and federal funding, Phase 1 construction was completed in December 2009. Phase 2 construction was completed in May of 2011 with a formal grand opening of Phases 1 and 2 in June 2011. The last portion - Phase 3 construction - was completed in August 2013.

In FY 2017/18, the project team will complete a land exchange with National Park Service, and the project will close. The project is funded by the City of San Antonio Capital Improvements Project Fund (\$6,513,771), the Bexar County San Antonio River Improvements Flood Tax Fund (\$155,650,311), and the Bexar County Visitor Tax Fund (\$33,503,486). Operations and maintenance costs for this project are included in the FY 2017/18 Adopted Budget.

San Antonio River Authority
 Bexar County Visitor Tax Fund
 Fiscal Year Ending June 30, 2018

Fund: 52

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 33,503,486	\$ 33,503,486	\$ -	\$ -
Interest Income	48,120	-	48,120	-
TOTAL AVAILABLE FUNDS	\$ 33,551,606	\$ 33,503,486	\$ 48,120	\$ -

APPROPRIATIONS

Projects

Mission Reach	\$ 33,503,486	\$ 33,503,486	\$ -	\$ -
Transfers	48,120	-	48,120	-

Total Project Expenditures	\$ 33,551,606	\$ 33,503,486	\$ 48,120	\$ -
TOTAL APPROPRIATIONS	\$ 33,551,606	\$ 33,503,486	\$ 48,120	\$ -

Bexar County Visitor Tax Fund

Fund 52

Description

The San Antonio River Authority partners with the City of San Antonio, Bexar County and the U.S. Army Corp of Engineers to complete capital improvement projects that address flood control, water quality and recreational opportunities. This Bexar County Visitor Tax Fund was used to account for budgets and expenditures for the components of these projects that were eligible for visitor tax funding. Bexar County levies this tax. The County reimbursed the River Authority for all expenses incurred.

In FY 2017/18, there are no active projects in this fund. Over the last several years, this fund has helped to pay for costs associated with the improvements along the San Antonio River Mission and Museum Reaches. These improvements include ecosystem restoration while maintaining or improving flood reduction benefits to the San Antonio River from Lone Star Boulevard to Mission Espada. In addition, recreational opportunities are created through hike and bike trails, pedestrian bridges and paddling trails.

In FY 2016/17, the remaining funds were be transferred to the Bexar County Flood Tax Fund to help fund projects costs budgeted in that fund.

San Antonio River Authority
 Bexar County Westside Creeks Restoration Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 54

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668
TOTAL AVAILABLE FUNDS	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668

APPROPRIATIONS

Projects

Westside Creeks - Elmendorf Lake Park	\$ 7,000,000	\$ 6,673,287	\$ 299,697	\$ 27,016
Westside Creeks - San Pedro Creek	97,557,040	15,102,758	12,270,630	70,183,652

Total Project Expenditures	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668
TOTAL APPROPRIATIONS	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668

Description

The San Antonio River Authority partners with the City of San Antonio and Bexar County to complete capital improvement projects that address flood control, water quality and recreational opportunities. This Bexar County Westside Creeks (WSC) Restoration Projects Fund is used to account for budgets and expenditures for Bexar County's portion of the Westside Creeks Restoration Project improvements. Bexar County reimburses the River Authority for expenses incurred.

The following describes the projects that are active in this fund.

Projects

Westside Creeks Elmendorf Lake Park

Project Budget: \$7,000,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Westside Creeks Restoration Project Conceptual Plan, adopted in June 2011 by the River Authority's Board of Directors, has served as the catalyst for the Elmendorf Lake Park Improvements project, Linear Creekway Trails project, United States Army Corps of Engineers General Reevaluation Report, and the San Pedro Creek Improvements Project. The community-based plan, overseen by the Westside Creeks Restoration Oversight Committee, set out to develop concepts to restore the Alazan, Apache, Martinez, and San Pedro Creeks ecosystem, maintain or enhance the current flood components of these creeks, improve water quality, and provide opportunities for people to enjoy these creeks.

Together, these projects advance the goals of watershed health and safety, community appreciation and recreation, and implanting watershed solutions.

The Elmendorf Lake Park Improvements Project was approved by City of San Antonio voters in 2012 with the passage of the 2012 bond, and received additional funding from Bexar County for flood control and water quality enhancements around the lake. The improvements include recreational enhancements such as shade structures, a playground and splash pad, additional bridge crossings over the lake, a pier, trails, picnic areas throughout the park and an improved park plaza for large gatherings. In addition to the recreational elements, water quality best management practices (BMPs) were installed and included fountains and aerators in the lake, rain gardens and bioswales, shoreline invasive plant removal, and a recirculating water feature. The project is expected to be completed by June 30, 2017. The River Authority is not responsible for operations and maintenance of these park improvements

Westside Creeks San Pedro Creek

Project Budget: \$105,628,018

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: approximately \$2.0 million

Bexar County and the River Authority, in coordination with the City of San Antonio, are completing the first phase of the San Pedro Creek Improvements Project, which will transform the creek to reflect its place in our cultural history, improve its function in flood control, revitalize natural habitat and water quality, and promote economic development. Under the construction manager at risk contract for this project, construction in Segment 1 of Phase 1 has begun even as design elements are being finalized. The project starts at the tunnel inlet near Fox Tech High School and winds through the western side of downtown to the creek's confluence with the Alazan and Apache Creeks. The project includes four miles of trails and eleven acres of landscaped area and will remove approximately 30 acres and 38 adjacent structures from the 100-year flood plain. Through partnerships, this project is diversifying and leveraging funding and building upon employee expertise.

Bexar County and the River Authority authorized the use of an alternative delivery method, construction manager at risk (CMAR), in December 2015 to maintain the project schedule. The CMAR was hired in June 2016. Also in June 2016, Bexar County entered into an agreement with the River Authority to manage the construction of the project. Segment 1 of Phase 1, between the San Pedro Creek flood control inlet tunnel and Houston Street, will be completed by May 2018 in celebration of the 300th anniversary of the City of San Antonio.

The project's design progressed while construction began in FY 2016/17. Construction on the utilities in Phase 1 began in late December of 2016 and full project construction began in January of 2017. The 100 percent design of Phase 1 and 2 will be completed by July 2017.

In FY 2017/18, the project will complete all construction of Segment 1, Phase 1 in time for the City of San Antonio's tricentennial celebration in May 2018, and will begin construction of Phases 1 and 2, to be complete by mid-2019. The project is funded by the San Antonio River Authority Project Fund (\$20,000), the San Antonio Capital Improvement Project Land Sales Fund (\$435,000), Bexar County Westside Creeks Restoration Fund (\$97,557,040) and Other Capital Projects Fund (\$7,615,978). The San Antonio River Authority will provide operations and maintenance along this newly developed area. The costs are still being finalized and negotiated with the City of San Antonio. Estimated costs for operation and maintenance are currently \$2.0 million. The activity will require the addition of personnel as well as contraction services and supplies expenditures.

San Antonio River Authority
 San Antonio Capital Improvements Projects 1999 Fund
 Fiscal Year Ending June 30, 2018

Fund: 53

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 30,459	\$ 2,642	\$ -	\$ 27,817
Investment Income	23	23	-	-
TOTAL AVAILABLE FUNDS	\$ 30,482	\$ 2,665	\$ -	\$ 27,817

APPROPRIATIONS

Projects

Lakewood Acres	\$ 30,482	\$ 2,665	\$ -	\$ 27,817
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Total Project Expenditures	\$ 30,482	\$ 2,665	\$ -	\$ 27,817
TOTAL APPROPRIATIONS	\$ 30,482	\$ 2,665	\$ -	\$ 27,817

City of San Antonio Capital Improvement Projects 1999 Fund Fund 53

Description

In the past, this fund has been used to budget and manage costs related to improvements on the San Antonio River funded by the City of San Antonio. It also accounted for costs related to the Cibolo Creek Floodplain Buyout program. The only remaining project in this fund is Lakewood Acres.

Projects

Lakewood Acres

Project Budget: \$27,817

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The San Antonio River Authority worked with the City of San Antonio to acquire land for eventual park development. The purchase of all the needed property in the Lakewood Acres area has been completed with the exception of one parcel. Unique circumstances with the owners of the property have made this purchase time consuming. The funds remaining in the project are to acquire the final land parcel. The River Authority is not responsible for operations and maintenance for this project.

San Antonio River Authority
 City of San Antonio Capital Improvements Project Fund
 Fiscal Year Ending June 30, 2018

Fund: 11

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
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Available Funds

Intergovernmental Revenue	\$ 24,354,498	\$ 18,407,655	\$ 369,063	\$ 5,577,780
Investment Income	317,332	314,289	1,043	2,000
Transfer	200,000	-	-	200,000
TOTAL AVAILABLE FUNDS	\$ 24,871,830	\$ 18,721,944	\$ 370,106	\$ 5,779,780

APPROPRIATIONS

Projects

Broadway Underpass	1,506,376	-	1,222	1,505,154
City of San Antonio Outfalls Project	179,957	179,957	-	-
City of San Antonio Drainage Master Plan	1,935,121	1,746,069	189,052	-
Flood Gate 4 Replacement	2,049,995	49,995	250	1,999,750
Edwards Aquifer Protection Program	476,901	33,307	58,718	384,876
City of San Antonio Post Stormwater Construction	-	-	-	-
Concepcion Creek Outfall Project	1,690,000	-	-	1,690,000
Mission Reach	6,513,771	6,513,771	-	-
City of San Antonio Trails	316,232	316,232	-	-
Museum Reach - Park Segment	10,003,477	9,882,613	120,864	-
Transfer	200,000	-	-	200,000

Total Project Expenditures	\$ 24,871,830	\$ 18,721,944	\$ 370,106	\$ 5,779,780
TOTAL APPROPRIATIONS	\$ 24,871,830	\$ 18,721,944	\$ 370,106	\$ 5,779,780

Description

The San Antonio River Authority partners with the City of San Antonio, Bexar County and the U.S. Army Corp of Engineers to complete capital improvement projects that address flood control, water quality and recreational opportunities. This City of San Antonio Capital Improvements Project Fund is used to account for budgets and expenditures for the City of San Antonio's portion of these improvement projects. The City of San Antonio reimburses the River Authority for all expenses incurred.

The following describes the projects that have been active in this fund over the last several years.

Projects

Broadway Underpass

Project Budget: \$1,506,376

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The River Authority, on behalf of the City of San Antonio, is overseeing the design and construction of a parking area under the IH-35/IH-37 interchange. The parking lot includes low impact development (LID) features that treat stormwater. Following construction, the River Authority will operate and maintain the LID features.

The parking area will provide access to the river and thereby enhance community appreciation and recreation. The LID features will provide watershed solutions by treating stormwater from impervious surfaces. In FY 2017/18, the project will be constructed. The River Authority will provide operations and maintenance services for these improvements through an interlocal agreement with the City of San Antonio. The net cost to the River Authority is \$0 as the full cost of the effort will be reimbursed by the City of San Antonio.

City of San Antonio Outfalls Project

Project Budget: \$179,957

Estimated Completion Date: FY 2015/16

Estimated Future Operations and Maintenance Costs: \$0

The River Authority photographed and documented up to 1,300 miles of outfalls along the San Antonio River, its creeks, and drainage channels within the city limits of San Antonio. The data went through an internal quality control review process to ensure accuracy and completeness of information. The River Authority provided the data to the City of San Antonio for their use. This project ended in FY 2015/16. The River Authority is not responsible for operations and maintenance for these improvements

City of San Antonio Drainage Master Plan

Project Budget: \$1,935,121

Estimated Completion Date: FY 2016/17

Estimated Future Operations and Maintenance Costs: \$0

Through a contract with the City of San Antonio, the River Authority developed a Local Watershed Master Plan for the major watersheds within the San Antonio city limits, to include Leon Creek, Salado Creek, and Upper San Antonio River. The developed Local Watershed Master Plan utilizes the most updated hydraulic and hydrologic models, floodplain maps and water quality data and modeling to identify and prioritize site specific local capital projects, applications for sustainable stormwater practices and other activities. This project helped reduce the risk to life and property from flooding and mitigate the impact of stormwater on water quality and stream degradation. The project ended in FY 2016/17. The River Authority is not responsible for any operations and maintenance activities related to this project.

Flood Gate 4 Replacement

Project Budget: \$2,049,995

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The City of San Antonio, during routine maintenance on Flood Gate 4 located at the International Center, noticed the hydraulic cylinder had pulled away from the concrete vault wall and was discharging hydraulic fluid. The City recommended full replacement and contracted with the River Authority to manage the installation of a new flood gate. The River Authority is responsible for overseeing the removal and disposal of the old gate and installation of a new gate. The new gate and all ancillary equipment are being designed and fabricated by a gate equipment vendor. The River Authority also developed the bridging documents needed to prepare for the solicitation of a design-build contractor. Installation and operation of the new gate will occur in FY 2017/18. The River Authority is not responsible for any operations and maintenance activities related to this project.

Edwards Aquifer Watershed Protection

Project Budget: \$570,645

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$0

This project supports advancement and application of the River Authority's expertise to influence, develop, and implement watershed solutions that balance environmental, economic, and quality life community needs. It meets the goal of advancing watershed health and safety by generating projects that, when implemented, improve the health of our streams. Also, the project seeks stormwater runoff management solutions that improve water quality and enhance, in concert with local partners, the health and safety of the creeks and rivers.

This project funds research and implementation of best management practices (BMPs) to protect and improve water quality over the Edwards Aquifer. The project scope includes serving as project manager and administrator of the City of San Antonio's Proposition 1 water quality project

component centered within urbanized Bexar County's recharge and contributing zones. The scope also includes providing expertise and support to entities researching and/or developing BMPs within the Edwards Aquifer region.

In FY 2016/17, the project pursued project partners, researched BMP placement and types, and utilized professional services to design BMPs. In FY 2017/18, the budget funds staff time to manage implementation of Proposition 1 year one projects funded by City of San Antonio; selection and management of year two projects funded by the City of San Antonio; and staff time and funding to support other water quality projects in the Edwards region. The project is funded by the San Antonio River Authority Project Fund (\$93,744) and the City of San Antonio Capital Improvements Project Fund (\$476,901). The City of San Antonio is responsible for any future operations and maintenance costs that may be associated with the funded projects.

Concepcion Creek Outfall Repair

Project Budget: \$1,690,000

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

Concepcion Creek outfalls into the San Antonio River along the Mission Reach. The concrete lining of the outfall was damaged during a rain event in September 2016. This project will repair the damage to the channel.

In FY 2017/18, the project will be designed and constructed. Operations and maintenance costs for this project are included in the FY 2017/18 Adopted Budget.

San Antonio River Improvements - Mission Reach and City of San Antonio Trails

Project Budget: \$195,983,800

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Mission Reach project is a joint effort between the U.S. Army Corps of Engineers (USACE), Bexar County, City of San Antonio, and the San Antonio River Authority to provide ecosystem restoration while maintaining or improving flood reduction benefits to the San Antonio River from Lone Star Boulevard to Mission Espada. The San Antonio River Oversight Committee provided public direction and input. Preliminary authorization for the Historic Mission Reach was substantially completed in October 2003. The locally prepared design with modifications was selected by the USACE as the preferred plan; final design began in October 2004. Through the co-commitment of local and federal funding, Phase 1 construction was completed in December 2009. Phase 2 construction was completed in May of 2011 with a formal grand opening of Phases 1 and 2 in June 2011. The last portion - Phase 3 construction - was completed in August 2013. In FY 2017/18, the project team will complete a land exchange with National Park Service, and the project will close. The project is funded by the City of San Antonio Capital Improvements Project Fund (\$6,513,771), the Bexar County San Antonio River Improvements Flood Tax Fund (\$155,650,311), and the Bexar County Visitor Tax Fund (\$33,503,486). Operations and maintenance costs for this project are included in the FY 2017/18 Adopted Budget.

In July 2014, the City of San Antonio amended the San Antonio River Improvements - Mission Reach Inter-local Agreement to include construction of a trail extending along the San Antonio River from Lone Star Avenue to 4,000 feet south of Loop 410 South. Construction of this trail segment was completed in FY 2016/17. This part of the project is funded by the City of San Antonio Capital Improvements Project Fund (\$316,232). The San Antonio River Authority is not responsible for operations and maintenance of this segment of the project.

San Antonio River Improvements - Museum Reach - Park Segment

Project Budget: \$13,974,172

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Museum Reach – Park Segment project, a component of the San Antonio River Improvements project funded by the City of San Antonio and Bexar County, along with support from the River Authority, involves infrastructure improvements that address flood control, amenities for the community and tourists, ecosystem restoration, and recreational opportunities in and along the river, north of U.S. Highway 281 and south of Hildebrand Road.

The last part of this project extends the Museum Reach Park Segment trail system to include Trail 17 – which is located on Tuleta Street east to Broadway and west to Red Oak Drive. The FY 2017/18 Budget includes funding to complete these trail segments. The deliverables include concrete sidewalks, electrical, demolition, signage, asphalt paving, cast-in-place concrete and storm drainage work.

The project is funded by the City of San Antonio Capital Improvements Project Fund (\$10,003,477), the Bexar County San Antonio River Improvements Flood Tax Fund (\$3,893,565) and Other Capital Projects Fund (\$77,130). The River Authority is not responsible for operations and maintenance on this improvement.

San Antonio River Authority
 City of San Antonio Westside Creeks Restoration Project Fund
 Fiscal Year Ending June 30, 2018

Fund: 61

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
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Available Funds

Intergovernmental Revenue	\$ 33,394,894	\$ 14,632,787	\$ 1,915,932	\$ 16,846,175
Investment Income	-	-	-	-
TOTAL AVAILABLE FUNDS	\$ 33,394,894	\$ 14,632,787	\$ 1,915,932	\$ 16,846,175

APPROPRIATIONS

Projects

Westside Creeks - Linear Creekways and Elmendorf Lake Park	\$ 33,394,894	\$ 14,632,787	\$ 1,915,932	\$ 16,846,175
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Total Project Expenditures	\$ 33,394,894	\$ 14,632,787	\$ 1,915,932	\$ 16,846,175
TOTAL APPROPRIATIONS	\$ 33,394,894	\$ 14,632,787	\$ 1,915,932	\$ 16,846,175

City of San Antonio Westside Creeks Restoration Project Fund Fund 61

Description

The San Antonio River Authority partners with the City of San Antonio and Bexar County to complete capital improvement projects that address flood control, water quality and recreational opportunities. This City of San Antonio Westside Creeks (WSC) Restoration Project Fund is used to account for budgets and expenditures for the City of San Antonio's portion of the improvement projects along the Westside Creeks waterways. The City reimburses the River Authority for expenses incurred.

The following describes the projects that are active in this fund.

Projects

Westside Creeks Linear Creek Trails and Elmendorf Lake Park

Project Budget: \$40,469,894

Estimated Completion Date: FY 2020/21

Estimated Future Operations and Maintenance Costs: \$0

The Westside Creeks Restoration Project Conceptual Plan, adopted in June 2011 by the River Authority's Board of Directors, has served as the catalyst for the Elmendorf Lake Park Improvements project, Linear Creekway Trails project, United States Army Corps of Engineers General Reevaluation Report, and the San Pedro Creek Improvements Project. The community-based plan, overseen by the Westside Creeks Restoration Oversight Committee, set out to develop concepts to restore the Alazan, Apache, Martinez, and San Pedro Creeks ecosystem, maintain or enhance the current flood components of these creeks, improve water quality, and provide opportunities for people to enjoy these creeks.

Together, these projects advance the goals of watershed health and safety, community appreciation and recreation, and implanting watershed solutions.

Through the voter approved Proposition 2 in 2010, the City of San Antonio funded segments of linear creekway trails along the Westside Creeks. The Apache and San Pedro Creeks trail connected Elmendorf Lake Park to the San Antonio River. The 10-foot wide trail included amenities such as shade structures, drinking fountains, signage, and seating. The Alazan Creek trail connected Woodlawn Lake Park to West End Park, and along Martinez Creek, the trail connected Fredericksburg Road to Cincinnati Avenue. The Martinez Creek segment included multimodal connections by linking VIA Metropolitan Transit's Primo bus station to the creekway trail and a bike lane along Cincinnati Avenue that extends into Woodlawn Lake Park. The design and construction of these improvements was managed by the River Authority and completed in 2016. In May 2015, the voters approved another proposition that funds additional Linear Creekway Trails segments along the Westside Creeks. The River Authority manages these projects to completion.

The Elmendorf Lake Park Improvements Project, completed in 2016, was approved by City of San Antonio voters in 2012 with the passage of the 2012 bond, and received additional funding from Bexar County for flood control and water quality enhancements around the lake. The improvements included recreational enhancements such as shade structures, a playground and splash pad, additional bridge crossings over the lake, a pier, trails, picnic areas throughout the park and an improved park plaza for large gatherings. In addition to the recreational elements, water quality best management practices (BMPs) were installed and included fountains and aerators in the lake, rain gardens and bioswales, shoreline invasive plant removal, and a recirculating water feature.

In FY 2017/18, the River Authority will administer the design and future construction of a second phase of trails along the Alazan, Martinez, and Zarzamora Creeks. The Alazan Creek trail will extend from Lombrano Street to the confluence with Apache Creek near Laredo Street. The Martinez Creek trail will extend from Cincinnati Avenue to the confluence of Alazan Creek at Mario Farias Park. The Zarzamora Creek trail will extend from General McMullen to Alderete Park, located on Aurora Avenue and NW 36th Street. These trails will be 10-feet in width and will include amenities such as trail heads, seating, and signage. Construction is projected to begin on the first two segments of these improvements in January 2019. The project is funded by San Antonio River Authority Project Fund (\$75,000), the Bexar County Westside Creeks Restoration Fund (\$7,000,000) and the Westside Creeks City of San Antonio Fund (\$33,394,894). The River Authority will not be responsible for operations and maintenance on this project.

San Antonio River Authority
 Downstream Capital Improvements Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 58

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487
TOTAL AVAILABLE FUNDS	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487

APPROPRIATIONS

Projects

Escondido Creek Parkway	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487
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Total Project Expenditures	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487
TOTAL APPROPRIATIONS	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487

Downstream Capital Improvements Project Fund

Fund 58

Description

The San Antonio River Authority serves four counties – Bexar, Wilson, Karnes and Goliad. This fund accounts for projects that are undertaken in the three downstream (of Bexar County) counties – Wilson, Karnes and Goliad.

Projects

Escondido Creek Parkway Improvements

Project Budget: \$1,819,534

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: \$275,000 to \$300,000

Escondido Creek Parkway, located in Karnes County, meanders between the City of Kenedy's Joe Gulley Park on the west and downtown Kenedy on the east. This 1.25 mile stretch is currently maintained by the San Antonio River Authority for drainage and flood control. The project supports the strategic planning goal of watershed health and safety.

The River Authority is working with the local community to develop the Escondido Creek Parkway. The initial development will extend between Joe Gulley Park to North 5th Street/Business 181, with potential future phases extending east to the old Southern Pacific Railroad right-of-way, and south to a downtown trailhead.

Beginning in FY 2011/12, the River Authority obtained a memorandum of agreement with the City of Kenedy, began conceptual planning and the real estate due diligence. Planning, identifying funding partners and real estate acquisition ensued. In FY 2016/17, a consultant was hired, and conceptual plans were completed. During FY 2017/18, the River Authority will build upon the 30 percent schematic design completed in FY 2016/17. A consultant will continue to work with the Escondido Creek Oversight Committee to advance the preliminary design into 100 percent design plans and construction documents. Funding opportunities will be identified and, based upon funding levels secured, the project will move into construction. Additional funding sources will continue to be pursued with project completion anticipated in FY 2019/20. The project is currently funded by the San Antonio River Authority Project Fund (\$30,000) and the Downstream Capital San Antonio River Authority Project Fund (\$1,789,534) which represents funding from various contributor in Karnes County including the City of Kenedy 4B Corporation and the City of Kenedy Chamber of Commerce. Operations and maintenance costs, when the project is completed, will be the responsibility of the River Authority and are estimated at \$275,000 and \$300,000.

San Antonio River Authority
 Other Capital Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 57

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 7,826,269	\$ 100,587	\$ 28,497	\$ 7,697,185
TOTAL AVAILABLE FUNDS	\$ 7,826,269	\$ 100,587	\$ 28,497	\$ 7,697,185

APPROPRIATIONS

Projects

Brooks City Base - Mission Reach Linkage	\$ 133,161	\$ 23,457	\$ 28,497	\$ 81,207
Museum Reach - Park Segment	77,130	77,130	-	-
Westside Creeks - San Pedro Creek	7,615,978	-	-	7,615,978

Total Project Expenditures	\$ 7,826,269	\$ 100,587	\$ 28,497	\$ 7,697,185
TOTAL APPROPRIATIONS	\$ 7,826,269	\$ 100,587	\$ 28,497	\$ 7,697,185

Description

The San Antonio River Authority partners with other public entities – state, local and federal – including the City of San Antonio and Bexar County, to complete capital improvement projects that provide flood control, water quality improvements and amenities to the community. This Other Capital Projects Fund is used to account for budgets and expenditures for projects funded by entities other than the City of San Antonio and Bexar County. The River Authority is reimbursed for all expenses incurred for projects in this fund.

Projects

Brooks City Base - Mission Reach Linkage

Project Budget: \$133,161

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Brooks City Base – Mission Reach Linkage project supports increased attendance, improved visitor experience and access to the San Antonio River Mission Reach. The project is a trail connection between the San Antonio River Mission Reach and Brooks City Base. The approximate 2/10 mile long, 10-foot wide, hike and bike trail begins at Corpus Christi Road. The connection at Corpus Christi Road includes pavement markings and signage at street level to signify the crossing. The trail continues west crossing an acequia located north of a tributary to the San Antonio River. The trail passes through the existing box culvert at South Presa Street and follows along the north side of the tributary to the San Antonio River. The trail then continues through the existing Union Pacific Railroad right-of-way and tie into the existing Mission Reach Trail.

In FY 2017/18, the River Authority will bid and award the project and begin construction. Construction is expected to be completed in March 2018. The River Authority is not responsible for operations and maintenance of these improvements.

San Antonio River Improvements - Museum Reach - Park Segment

Project Budget: \$13,974,172

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Museum Reach – Park Segment project, a component of the San Antonio River Improvements project funded by the City of San Antonio and Bexar County, along with support from the River Authority, involves infrastructure improvements that address flood control, amenities for the community and tourists, ecosystem restoration, and recreational opportunities in and along the river, north of U.S. Highway 281 and south of Hildebrand Road.

The last part of this project extends the Museum Reach Park Segment trail system to include Trail 17 – which is located on Tuleta Street east to Broadway and west to Red Oak Drive. The FY 2017/18 Budget includes funding to complete these trail segments. The deliverables include

concrete sidewalks, electrical, demolition, signage, asphalt paving, cast-in-place concrete and storm drainage work.

The project is funded by the City of San Antonio Capital Improvements Project Fund (\$10,003,477), the Bexar County San Antonio River Improvements Flood Tax Fund (\$3,893,565) and Other Capital Projects Fund (\$77,130). The River Authority is not responsible for operations and maintenance on this improvement.

Westside Creeks San Pedro Creek

Project Budget: \$105,628,018

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: approximately \$2.0 million

Bexar County and the River Authority, in coordination with the City of San Antonio, are completing the first phase of the San Pedro Creek Improvements Project, which will transform the creek to reflect its place in our cultural history, improve its function in flood control, revitalize natural habitat and water quality, and promote economic development. Under the construction manager at risk contract for this project, construction in Segment 1 of Phase 1 has begun even as design elements are being finalized. The project starts at the tunnel inlet near Fox Tech High School and winds through the western side of downtown to the creek's confluence with the Alazan and Apache Creeks. The project includes four miles of trails and eleven acres of landscaped area and will remove approximately 30 acres and 38 adjacent structures from the 100-year flood plain. Through partnerships, this project is diversifying and leveraging funding and building upon employee expertise.

Bexar County and the River Authority authorized the use of an alternative delivery method, construction manager at risk (CMAR), in December 2015 to maintain the project schedule. The CMAR was hired in June 2016. Also in June 2016, Bexar County entered into an agreement with the River Authority to manage the construction of the project. Segment 1 of Phase 1, between the San Pedro Creek flood control inlet tunnel and Houston Street, will be completed by May 2018 in celebration of the 300th anniversary of the City of San Antonio.

The project's design progressed while construction began in FY 2016/17. Construction on the utilities in Phase 1 began in late December of 2016 and full project construction began in January of 2017. The 100 percent design of Phase 1 and 2 will be completed by July 2017.

In FY 2017/18, the project will complete all construction of Segment 1, Phase 1 in time for the City of San Antonio's tricentennial celebration in May 2018, and will begin construction of Phases 1 and 2, to be complete by mid-2019. The project is funded by the San Antonio River Authority Project Fund (\$20,000), the San Antonio Capital Improvement Project Land Sales Fund (\$435,000), Bexar County Westside Creeks Restoration Fund (\$97,557,040) and Other Capital Projects Fund (\$7,615,978). The San Antonio River Authority will provide operations and maintenance along this newly developed area. The costs are still being finalized and negotiated with the City of San Antonio. Estimated costs for operation and maintenance are currently \$2.0 million. The activity will require the addition of personnel as well as contraction services and supplies expenditures.



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**UTILITY CAPITAL IMPROVEMENT
PROGRAM AND RENEWAL AND
REPLACEMENT PROGRAM**



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The following describes each project on the utility's ten year capital improvement program as well as the repair and replacement program that are not funded in the FY 2017/18 Adopted Budget. The funded projects are described in this narrative under the fund which supports the activity.

San Antonio River Authority Wastewater System Ten Year Capital Improvement Program and Renewal and Replacement Program

Grit Removal – Upper Martinez Wastewater Treatment Plant (WWTP) - \$500,000 Year 2

This equipment is located at the head of the plant and removes dirt, sand, and gravel debris to prevent damage to equipment in the downstream processes and is needed to maintain compliance with Texas Commission on Environmental Quality (TCEQ) discharge permit parameters. The system was installed in 1984 and has a life expectancy of 20 years. Currently, more man hours are required to maintain the system due to its age and the cost of parts is high because they need to be custom ordered.

Nutrient Removal - \$3,368,900 Year 3

Biological Nutrient Removal (BNR) is a process used for nitrogen and phosphorus removal from wastewater before it is discharged into surface or ground water. These plant upgrades to include nutrient removal in the wastewater treatment process may be required to meet Texas Pollutant Discharge Elimination System (TPDES) permit requirements upon plant permit renewal in 2020.

Aeration Basin 27 - Upper Martinez WWTP - \$2,000,000 Year 4

Aeration Basin 37 - Upper Martinez WWTP - \$2,000,000 Year 8

These basins provide area and detention time for the biological process and are needed to maintain compliance with TCEQ discharge permit parameters. The basins were installed in 1974 and 1984 respectively, but soil conditions have compromised the integrity of the structures. Cracks have been observed in the cement structures that could create problems in the near future. The life expectancy is 50 years for these basins.

Motor Control Center Building - Martinez II WWTP - \$1,500,000 Year 4

The electrical equipment in the motor control center building supplies power to the majority of the electrical equipment at the Martinez II WWTP. The original building was installed in 1985 and has a life expectancy of 20 years. Currently, safety is a concern and more man hours are required to maintain the system due to its age. Upgrading the building and electrical components will create a safer work environment and save staff time.

Carousel Aerator 37 - Upper Martinez WWTP - \$200,000 Year 5

Carousel Aerator 17 - Martinez II WWTP - \$200,000 Year 5

Carousel Aerator 27 - Martinez II WWTP - \$200,000 Year 8

This equipment provides oxygen for the microorganisms needed for the biological process, mixing for the microorganisms to come in contact with raw wastewater, and is needed to maintain compliance with TCEQ discharge permit parameters. The system was installed in 1984, 1985 and 2002 respectively and the life expectancy is 20 years. Currently, more man hours are required to maintain the system due to its age. The manufacturer has discontinued the production of the model currently in use at two plants (#37 and #17).

Clarifier 17 - Martinez II WWTP - \$500,000 Year 5

Clarifier Basin and Mechanicals - Highway 181 WWTP - \$115,000 Year 6

Clarifier Basin 27 - Upper Martinez WWTP - \$1,000,000 Year 7

This equipment provides separation of solids and floatables from the liquid providing clear effluent prior to disinfection, and is needed to maintain compliance with TCEQ discharge permit parameters. The Martinez II WWTP system was installed in 1985; the Highway 181 WWTP system was installed in 2005 but was an existing plant purchased from another entity; the Upper Martinez system was installed in 1974. The life expectancy of each of these systems is 20 years. Currently, more man hours are required to maintain the system due to its age.

Ultraviolet (UV) Bank A - Upper Martinez - \$1,000,000 Year 5

This equipment disinfects effluent prior to stream discharge and is needed to maintain compliance with TCEQ discharge permit parameters. The existing UV system was installed in 1991 and has a life expectancy of 20 years. Existing equipment has been modified by River Authority staff due to failures and difficulty obtaining parts because they have been discontinued for the model currently in use.

San Antonio River Authority (SARA) Collection System Improvements - \$2,672,574 Year 5-10

These costs reflect the continuation of the Inflow and Infiltration (I&I) management project to repair defective manholes and defective lines in the system to reduce I&I. The River Authority has an on-going commitment to improve inflow and infiltration (I&I) into the various collection systems owned and operated by the River Authority. This includes the SARA Wastewater System. Reducing I&I, which is water that enters into the collection system through leaks in the pipes and manholes, reduces flow into the treatment plant. The flow into the plant determines when additional plant capacity is required. The I&I project repairs defective manholes and defective lines in the system according to a 1 to 5 rating system, with 5 being the worst condition. These costs reflect the program for years five through ten of the plan.

Salatrillo Wastewater System Capital Improvement Program and Renewal and Replacement Program

Bar Screen and Compactor - \$100,000

Year 3

This equipment is located at the head of the Salatrillo Wastewater Treatment Plant (WWTP) and is needed to remove large debris to prevent damage to equipment in the downstream processes and is needed to help maintain compliance with TCEQ discharge permit parameters. The existing bar screen and compactor was installed in 2005 and currently requires more man hours for repair and maintenance. Equipment has been modified by River Authority staff due to failures and difficulty obtaining parts because they need to be custom ordered.

Nutrient Removal

Year 3

Biological Nutrient Removal (BNR) is a process used for nitrogen and phosphorus removal from wastewater before it is discharged into surface or ground water. These plant upgrades to include nutrient removal in the wastewater treatment process may be required to meet Texas Pollutant Discharge Elimination System (TPDES) permit requirements upon plant permit renewal in 2020.

Roto Screen - \$200,000

Year 3

This equipment is located at the head of the plant and is needed to remove large debris to prevent damage to equipment in the downstream processes and is needed to help maintain compliance with TCEQ discharge permit parameters. The existing roto screen was installed in 1998 and requires more man hours for repair and maintenance. The life expectancy is 20 years for this equipment.

Grit Removal - \$500,000

Year 3

This equipment is located at the head of the plant and removes dirt, sand, and gravel debris to prevent damage to equipment in the downstream processes and is needed to maintain compliance with TCEQ discharge permit parameters. The system was installed in 1984 and has a life expectancy of 20 years. Currently, more man hours are required to maintain the system due to its age and the difficulty to find parts and the cost of parts is high because they need to be custom ordered.

Ultraviolet Banks and Basins - \$6,000,000

Year 3

This equipment disinfects effluent prior to stream discharge and is needed to maintain compliance with TCEQ discharge permit parameters. The existing UV System was installed in 1991 and has a life expectancy of 20 years. Existing equipment has been modified by River Authority staff due to failures and the difficulty in obtaining parts because they have been discontinued for the model currently in use.

Wastewater Treatment Plant Roadwork Improvements - \$469,339

Year 3

The newest road at the Salatrillo WWTP was constructed in 1998 and current roads are in failure, which causes greater wear and tear on vehicles. All other roads and parking areas were constructed in 1984. This project involves major road reconstruction.

Carousel Aerators - \$400,000

Year 5

Carousel Aerator - \$300,000

Year 8

This equipment provides oxygen for the microorganisms needed for the biological process, mixing for the microorganisms to come in contact with raw wastewater, and is needed to maintain compliance with TCEQ discharge permit parameters. The system was installed in 1984 and the life expectancy is 20 years. Currently, more man hours are required to maintain the system due to its age. The manufacturer has discontinued the production of the model currently in use.

Tertiary Filters - \$1,500,000

Year 5

New filters are needed to remove suspended solids from the effluent as a condition to meet permit requirements from TCEQ. The filters may also be necessary for nutrient removal requirements that could be added to the TCEQ discharge permit parameters.

Salatrillo Wastewater Treatment Plant Expansion - \$16,500,000

Year 6

This project increases the Salatrillo WWTP capacity from 5.83 million gallons per day (MGD) to 7.33 MGD. The increased capacity is projected to be needed to stay within permitted capacity as customer demand grows. Flows are currently at 88 percent of the annual average permitted by TCEQ. TCEQ requires expansion at 90 percent of average permitted flow. Decreases in I&I may help to delay this expansion.

Aeration Basins - \$4,000,000

Year 7

These basins provide area and detention time for the biological process and are needed to maintain compliance with TCEQ discharge permit parameters. The basins were installed in 1974, but soil conditions have compromised the integrity of the structure. Cracks have been observed in the cement structure that could create problems in the near future. The life expectancy is 50 years for these basins.

Salatrillo Collection System Improvements - \$3,402,281

Year 4-10

These costs reflect the continuation of the Salatrillo Inflow and Infiltration (I&I) management project to repair defective manholes and defective lines in the system to reduce I&I. The River Authority has an on-going commitment to improve inflow and infiltration (I&I) into the various collection systems owned and operated by the River Authority. This includes the Salatrillo Wastewater System. Reducing I&I, which is water that enters into the collection system through leaks in the pipes and manholes, reduces flow into the treatment plant. The flow into the plant determines when additional plant capacity is required. Therefore, investment in reducing I&I postpones plant expansion – a more expensive investment than improving the collection system to reduce I&I. The I&I project repairs defective manholes and defective lines in the system according to a 1 to 5 rating system, with 5 being the worst condition. These costs reflect the program for years five through ten of the plan.

UTILITY TEN YEAR CAPITAL IMPROVEMENT PLAN



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SARA WASTEWATER SYSTEM

TEN YEAR CAPITAL IMPROVEMENT PLAN - FY 2017/18

	1	2	3	4	5
Description and Business Justification	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022
The San Antonio River Authority (SARA) Inflow and Infiltration (I&I) management project repairs defective manholes and defective lines in the system to reduce I&I.	303,525	485,018	438,042	320,416	-
First phase of the new Martinez IV 250,000 GPD wastewater treatment plant (WWTP) will be designed and constructed. Additionally, 14,000 linear feet of wastewater collection line will be completed to serve new development east of the WWTP. The overall final permitted flow rate for the system is 2.0 MGD.	10,689,867	-	-	-	1,874,305
The Salatrillo and Martinez Sewershed Models project develops comprehensive and dynamic sewershed models for the SARA WWTPs and collection system. The models will help to quantify available system capacity and identify inefficiencies.	\$ 260,000	\$ 144,000	\$ 176,000	\$ -	\$ -
the WWTP subsurface utility exploration project will verify piping of Upper Martinez and Martinez II WWTPs for modeling and future projects.	104,120	54,619	-	-	-
Subtotal-SARA Wastewater Active Projects	\$ 11,357,512	\$ 683,637	\$ 614,042	\$ 320,416	\$ 1,874,305
Description and Business Justification					
Design and construct the 48-inch and the 66-inch screw pumps at the Martinez II WWTP. Both screw pumps were installed in 1986. The 48-inch screw pump is currently out of service and cannot be repaired.	1,481,652	-	-	-	-
Maintenance on the front entrance/roadway of Martinez II to extend the life and chip seal at Martinez II shop to address dust issues. A new concrete apron at Upper Martinez WWTP will be installed. Anticipated roadwork at Upper Martinez and Highway 181 WWTPs in FY 2022.	195,340	-	-	-	221,910
The grit removal equipment at the Upper Martinez WWTP's useful life is ending and needs to be replaced.	-	500,000	-	-	-
Biological Nutrient Removal (BNR) is a process used for nitrogen and phosphorus removal from wastewater before it is discharged into surface or ground water. Adding this process to the Salatrillo wastewater plan may be required as a condition to meet TPDES permitting upon renewal in 2020. Estimated cost is \$3,368,900 (\$1,303,900 for Upper Martinez and \$2,065,000 for Martinez II).	-	-	3,368,900	-	-
The aeration basin #27 at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	2,000,000	-
Replace electrical equipment in the motor control center building at the Martinez II WWTP is beyond its useful life and needs to be replaced and brought up to current code.	-	-	-	1,500,000	-
The carousel aerator #37 at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	200,000
The carousel aerator #17 at the Martinez II WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	200,000
The clarifier #27 at the Martinez II WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	500,000
The ultraviolet bank A at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	1,000,000
Continuation of the SARA wastewater system's Inflow and Infiltration (I&I) management project to repair defective manholes and defective lines in the system to reduce I&I.	-	-	-	-	400,433
New clarifier basin at the Highway 181 WWTP is needed to meet TPDES permit.	-	-	-	-	-
New clarifier - concrete mechanicals at the Highway 181 WWTP is needed to meet TPDES permit.	-	-	-	-	-
New clarifier basin #27 at the Upper Martinez WWTP is needed to meet TPDES permit.	-	-	-	-	-
The carousel aerator #27 at the Martinez II WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The aeration basin #37 at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
Subtotal-Future Projects	\$ 1,676,992	\$ 500,000	\$ 3,368,900	\$ 3,500,000	\$ 2,522,343
Total-SARA Wastewater Projects	\$ 13,034,504	\$ 1,183,637	\$ 3,982,942	\$ 3,820,416	\$ 4,396,648

SARA WASTEWATER SYSTEM

TEN YEAR CAPITAL IMPROVEMENT PLAN - FY 2017/18

	6	7	8	9	10
Description and Business Justification	Fiscal Year 2023	Fiscal Year 2024	Fiscal Year 2025	Fiscal Year 2026	Fiscal Year 2027
The San Antonio River Authority (SARA) Inflow and Infiltration (I&I) management project repairs defective manholes and defective lines in the system to reduce I&I.	-	-	-	-	-
First phase of the new Martinez IV 250,000 GPD wastewater treatment plant (WWTP) will be designed and constructed. Additionally, 14,000 linear feet of wastewater collection line will be completed to serve new development east of the WWTP. The overall final permitted flow rate for the system is 2.0 MGD.	-	-	-	3,018,610	-
The Salatrillo and Martinez Sewershed Models project develops comprehensive and dynamic sewershed models for the SARA WWTPs and collection system. The models will help to quantify available system capacity and identify inefficiencies.	\$ -	\$ -	\$ -	\$ -	\$ -
the WWTP subsurface utility exploration project will verify piping of Upper Martinez and Martinez II WWTPs for modeling and future projects.	-	-	-	-	-
Subtotal-SARA Wastewater Active Projects	\$ -	\$ -	\$ -	\$ 3,018,610	\$ -
Description and Business Justification					
Design and construct the 48-inch and the 66-inch screw pumps at the Martinez II WWTP. Both screw pumps were installed in 1986. The 48-inch screw pump is currently out of service and cannot be repaired.	-	-	-	-	-
Maintenance on the front entrance/roadway of Martinez II to extend the life and chip seal at Martinez II shop to address dust issues. A new concrete apron at Upper Martinez WWTP will be installed. Anticipated roadwork at Upper Martinez and Highway 181 WWTPs in FY 2022.	-	-	-	-	-
The grit removal equipment at the Upper Martinez WWTP's useful life is ending and needs to be replaced.	-	-	-	-	-
Biological Nutrient Removal (BNR) is a process used for nitrogen and phosphorus removal from wastewater before it is discharged into surface or ground water. Adding this process to the Salatrillo wastewater plan may be required as a condition to meet TPDES permitting upon renewal in 2020. Estimated cost is \$3,368,900 (\$1,303,900 for Upper Martinez and \$2,065,000 for Martinez II).	-	-	-	-	-
The aeration basin #27 at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
Replace electrical equipment in the motor control center building at the Martinez II WWTP is beyond its useful life and needs to be replaced and brought up to current code.	-	-	-	-	-
The carousel aerator #37 at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The carousel aerator #17 at the Martinez II WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The clarifier #27 at the Martinez II WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The ultraviolet bank A at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
Continuation of the SARA wastewater system's Inflow and Infiltration (I&I) management project to repair defective manholes and defective lines in the system to reduce I&I.	402,945	441,322	523,614	507,388	396,872
New clarifier basin at the Highway 181 WWTP is needed to meet TPDES permit.	100,000	-	-	-	-
New clarifier - concrete mechanicals at the Highway 181 WWTP is needed to meet TPDES permit.	15,000	-	-	-	-
New clarifier basin #27 at the Upper Martinez WWTP is needed to meet TPDES permit.	-	1,000,000	-	-	-
The carousel aerator #27 at the Martinez II WWTP's useful life is ending and equipment needs to be replaced.	-	-	200,000	-	-
The aeration basin #37 at the Upper Martinez WWTP's useful life is ending and equipment needs to be replaced.	-	-	2,000,000	-	-
Subtotal-Future Projects	\$ 517,945	\$ 1,441,322	\$ 2,723,614	\$ 507,388	\$ 396,872
Total-SARA Wastewater Projects	\$ 517,945	\$ 1,441,322	\$ 2,723,614	\$ 3,525,998	\$ 396,872

**SALATRILLO WASTEWATER SYSTEM
TEN YEAR CAPITAL IMPROVEMENT PLAN - FY 2017/18**

	1	2	3	4	5
Description and Business Justification	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022
The Salatrillo Collection System's Inflow and Infiltration (I&I) management project repairs defective manholes and defective lines in the system to reduce I&I.	\$ 433,890	\$ 313,113	\$ 533,762	\$ -	\$ -
The Salatrillo and Martinez Sewershed Models project develops comprehensive and dynamic sewershed models for the Salatrillo wastewater treatment plant and collection system. The models will help to quantify available system capacity and identify inefficiencies.	92,040	216,000	264,000	-	-
	525,930	529,113	797,762	-	-
Description and Business Justification					
The electrical cubicle boxes' useful lives are ending and need to be replaced and upgraded.	\$ 100,000	\$ -	\$ -	\$ -	\$ -
The brush aerators' useful lives are ending and need to be replaced.	120,000	-	-	-	-
The bar screen's useful life is ending and equipment needs to be replaced.	-	-	100,000	-	-
Biological Nutrient Removal (BNR) is a process used for nitrogen and phosphorus removal from wastewater before it is discharged into surface or ground water. Adding this process to the Salatrillo wastewater plan may be required as a condition to meet TPDES permitting upon renewal in 2020. Estimated cost is	-	-	-	-	-
The roto screen's useful life is ending and equipment needs to be replaced.	-	-	200,000	-	-
The grit removal equipment's useful life is ending and needs to be replaced.	-	-	500,000	-	-
The ultraviolet light bank 1A's useful life is ending and equipment needs to be replaced.	-	-	1,000,000	-	-
The ultraviolet light bank 2A's useful life is ending and equipment needs to be replaced.	-	-	1,000,000	-	-
The ultraviolet light bank 1B's useful life is ending and equipment needs to be replaced.	-	-	2,000,000	-	-
The ultraviolet light bank 2B's useful life is ending and equipment needs to be replaced.	-	-	2,000,000	-	-
The Salatrillo plant's newest road was constructed in 1998 and current roads are in failure which causes greater wear and tear on vehicles. Major roadwork is	-	-	469,339	-	-
The carousel aerator #47's useful life is ending and equipment needs to be replaced.	-	-	-	-	200,000
The carousel aerator #57's useful life is ending and equipment needs to be replaced.	-	-	-	-	200,000
Tertiary filters may be needed as a condition to meet the reuse system's permit requirements.	-	-	-	-	1,500,000
Increase the Salatrillo wastewater treatment plant's capacity from 5.83 MGD to 7.33 MGD. Increased capacity may be needed to stay within permitted capacity. Decreases in I&I may help to delay expansion.	-	-	-	-	-
The aeration basin #27's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The aeration basin #37's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The carousel aerator #17's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
Continuation of the Salatrillo collection system's Inflow and Infiltration (I&I) management project to repair defective manholes and defective lines in the system to reduce I&I.	-	-	-	553,762	485,319
	\$ 220,000	\$ -	\$ 7,269,339	\$ 553,762	\$ 2,385,319
	\$ 745,930	\$ 529,113	\$ 8,067,101	\$ 553,762	\$ 2,385,319

**SALATRILLO WASTEWATER SYSTEM
TEN YEAR CAPITAL IMPROVEMENT PLAN - FY 2017/18**

	6	7	8	9	10
Description and Business Justification	Fiscal Year 2023	Fiscal Year 2024	Fiscal Year 2025	Fiscal Year 2026	Fiscal Year 2027
The Salatrillo Collection System's Inflow and Infiltration (I&I) management project repairs defective manholes and defective lines in the system to reduce I&I.	\$ -	\$ -	\$ -	\$ -	\$ -
The Salatrillo and Martinez Sewershed Models project develops comprehensive and dynamic sewershed models for the Salatrillo wastewater treatment plant and collection system. The models will help to quantify available system capacity and identify inefficiencies.	-	-	-	-	-
	-	-	-	-	-
Description and Business Justification					
The electrical cubicle boxes' useful lives are ending and need to be replaced and upgraded.	\$ -	\$ -	\$ -	\$ -	\$ -
The brush aerators' useful lives are ending and need to be replaced.	-	-	-	-	-
The bar screen's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
Biological Nutrient Removal (BNR) is a process used for nitrogen and phosphorus removal from wastewater before it is discharged into surface or ground water. Adding this process to the Salatrillo wastewater plan may be required as a condition to meet TPDES permitting upon renewal in 2020. Estimated cost is	-	-	-	-	-
The roto screen's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The grit removal equipment's useful life is ending and needs to be replaced.	-	-	-	-	-
The ultraviolet light bank 1A's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The ultraviolet light bank 2A's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The ultraviolet light bank 1B's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The ultraviolet light bank 2B's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The Salatrillo plant's newest road was constructed in 1998 and current roads are in failure which causes greater wear and tear on vehicles. Major roadwork is	-	-	-	-	-
The carousel aerator #47's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
The carousel aerator #57's useful life is ending and equipment needs to be replaced.	-	-	-	-	-
Tertiary filters may be needed as a condition to meet the reuse system's permit requirements.	-	-	-	-	-
Increase the Salatrillo wastewater treatment plant's capacity from 5.83 MGD to 7.33 MGD. Increased capacity may be needed to stay within permitted capacity. Decreases in I&I may help to delay expansion.	16,500,000	-	-	-	-
The aeration basin #27's useful life is ending and equipment needs to be replaced.	-	2,000,000	-	-	-
The aeration basin #37's useful life is ending and equipment needs to be replaced.	-	2,000,000	-	-	-
The carousel aerator #17's useful life is ending and equipment needs to be replaced.	-	-	300,000	-	-
Continuation of the Salatrillo collection system's Inflow and Infiltration (I&I) management project to repair defective manholes and defective lines in the system to reduce I&I.	550,308	439,530	453,362	460,000	460,000
	\$ 17,050,308	\$ 4,439,530	\$ 753,362	\$ 460,000	\$ 460,000
	\$ 17,050,308	\$ 4,439,530	\$ 753,362	\$ 460,000	\$ 460,000

UTILITY TEN YEAR RENEWAL AND REPLACEMENT PROGRAM



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**SAN ANTONIO RIVER AUTHORITY WASTEWATER SYSTEM
TEN YEAR RENEWAL AND REPLACEMENT PLAN - FY 2017/18**

	1	2	3	4	5
Description and Business Justification	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022
Replace polymer system at Martinez II due to age.	\$ 100,000	\$ -	\$ -	\$ -	\$ -
Replace belt press at Martinez II WWTP due to age and continuous repairs.	60,000	-	-	-	-
The useful life is ending and equipment needs to be replaced at Upper Martinez and Martinez II.	-	125,000	-	-	-
Improvements to the clarifier at Upper Martinez due to age.	-	60,000	-	-	-
Replace vector truck due to age and continuous equipment repairs.	-	450,000	-	-	-
Improvements to ultraviolet bank and channel, aeration basins, clarifier basins, and control panels at the Highway 181 wastewater treatment plant.	-	50,000	-	-	350,000
Replace 100kw generator at Foster Road lift station due to age.	-	-	75,000	-	-
Rehab concrete wet well at Foster Road lift station due to age and continuous repairs.	-	-	-	100,000	-
Replace plant water pump at Upper Martinez due to age.	-	-	-	-	50,000
Replace 150kw generator at Highway 181 due to age.	-	-	-	-	100,000
Replace 400kw generator at Upper Martinez wastewater treatment plant due to age.	-	-	-	-	500,000
Replace step screen at Upper Martinez wastewater treatment plant due to age.	-	-	-	-	-
Replace eight inch pump at Martinez II wastewater treatment plant due to age.	-	-	-	-	-
Replace CCTV van due to age and continuous equipment repairs.	-	-	-	-	-
Replace equipment that is part of the Supervisory Control and Data Acquisition (SCADA) System at Upper Martinez wastewater treatment plant due to age.	-	-	-	-	-
Annual vehicle replacement program. Replace both light and heavy duty vehicles due to mileage, age, and condition.	126,000	309,000	156,000	381,000	360,000
Total- San Antonio River Authority Wastewater System	\$ 286,000	\$ 994,000	\$ 231,000	\$ 481,000	\$ 1,360,000

**SAN ANTONIO RIVER AUTHORITY WASTEWATER SYSTEM
TEN YEAR RENEWAL AND REPLACEMENT PLAN - FY 2017/18**

Description and Business Justification	6	7	8	9	10
	Fiscal Year 2023	Fiscal Year 2024	Fiscal Year 2025	Fiscal Year 2026	Fiscal Year 2027
Replace polymer system at Martinez II due to age.	\$ -	\$ -	\$ -	\$ -	\$ -
Replace belt press at Martinez II WWTP due to age and continuous repairs.	-	-	-	-	-
The useful life is ending and equipment needs to be replaced at Upper Martinez and Martinez II.	-	-	-	-	-
Improvements to the clarifier at Upper Martinez due to age.	-	-	-	-	-
Replace vactor truck due to age and continuous equipment repairs.	-	-	-	-	-
Improvements to ultraviolet bank and channel, aeration basins, clarifier basins, and control panels at the Highway 181 wastewater treatment plant.	-	-	-	-	-
Replace 100kw generator at Foster Road lift station due to age.	-	-	-	-	-
Rehab concrete wet well at Foster Road lift station due to age and continuous repairs.	-	-	-	-	-
Replace plant water pump at Upper Martinez due to age.	-	-	-	-	-
Replace 150kw generator at Highway 181 due to age.	-	-	-	-	-
Replace 400kw generator at Upper Martinez wastewater treatment plant due to age.	-	-	-	-	-
Replace step screen at Upper Martinez wastewater treatment plant due to age.	-	-	100,000	-	-
Replace eight inch pump at Martinez II wastewater treatment plant due to age.	-	-	50,000	-	-
Replace CCTV van due to age and continuous equipment repairs.	-	-	-	250,000	-
Replace equipment that is part of the Supervisory Control and Data Acquisition (SCADA) System at Upper Martinez wastewater treatment plant due to age.	-	-	-	-	150,000
Annual vehicle replacement program. Replace both light and heavy duty vehicles due to mileage, age, and condition.	330,000	135,000	288,000	93,000	120,000
Total- San Antonio River Authority Wastewater System	\$ 330,000	\$ 135,000	\$ 438,000	\$ 343,000	\$ 270,000

**SALATRILLO WASTEWATER SYSTEM
TEN YEAR RENEWAL AND REPLACEMENT PLAN
FY 2017/18**

	1	2	3	4	5
Description and Business Justification	Fiscal Year 2018	Fiscal Year 2019	Fiscal Year 2020	Fiscal Year 2021	Fiscal Year 2022
Replace vector truck due to age and continuous equipment repairs.	\$ 420,000	\$ -	\$ -	\$ -	\$ -
Replace three gear boxes due to age and continuous repairs.	180,000	-	-	-	-
Replace eight inch sludge pump due to age.	-	-	50,000	-	-
plant.	-	-	68,560	-	-
Replace 400kw generator due to age.	-	-	-	-	600,000
Control and Data Acquisition (SCADA) System due to age.	-	-	-	-	-
Replace polymer system due to age.	-	-	-	-	-
Replace two three inch water pumps and a compactor due to age	-	-	-	-	-
Replace 750kw generator due to age.	-	-	-	-	-
Replace three eight inch pumps due to age.	-	-	-	-	-
light and heavy duty vehicles due to mileage, age, and condition.	80,000	206,000	104,000	254,000	240,000
Total - Salatrillo System	\$ 680,000	\$ 206,000	\$ 222,560	\$ 254,000	\$ 840,000

**SALATRILLO WASTEWATER SYSTEM
TEN YEAR RENEWAL AND REPLACEMENT PLAN
FY 2017/18**

	6	7	8	9	10
Description and Business Justification	Fiscal Year 2023	Fiscal Year 2024	Fiscal Year 2025	Fiscal Year 2026	Fiscal Year 2027
Replace vector truck due to age and continuous equipment repairs.	\$ -	\$ -	\$ -	\$ -	\$ -
Replace three gear boxes due to age and continuous repairs.	-	-	-	-	-
Replace eight inch sludge pump due to age.	-	-	-	-	-
plant.	-	-	-	-	-
Replace 400kw generator due to age.	-	-	-	-	-
Replace equipment that is part of the Supervisory Control and Data Acquisition (SCADA) System due	200,000	-	-	-	-
Replace polymer system due to age.	100,000	-	-	-	-
Replace two three inch water pumps and a compactor due to age	-	-	70,000	-	-
Replace 750kw generator due to age.	-	-	700,000	-	-
Replace three eight inch pumps due to age.	-	-	-	30,000	-
light and heavy duty vehicles due to mileage, age, and condition.	220,000	90,000	192,000	62,000	80,000
Total - Salatrillo System	\$ 520,000	\$ 90,000	\$ 962,000	\$ 92,000	\$ 80,000

UTILITY CAPITAL IMPROVEMENT FUNDS



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

San Antonio River Authority
 Randolph AFB Renewals and Replacement Fund
 Fiscal Year Ending June 30, 2018

Fund: 83

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity	Remaining Available Funds
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Available Funds

Intergovernmental Revenue	\$ 1,672,588	\$ 955,288	\$ 357,300	\$ 360,000
Investment Income	3,755	-	2,156	1,599
Transfers	200,000	-	200,000	-
TOTAL AVAILABLE FUNDS	\$ 1,876,343	\$ 955,288	\$ 559,456	\$ 361,599

APPROPRIATIONS

Projects

Randolph Air Force Base Year 11 (2014)	\$ 196,935	\$ 196,935	\$ -	\$ -
Randolph Air Force Base Year 12 (2015)	145,084	145,084	-	-
Randolph Air Force Base Year 13 (2016)	231,401	50,745	180,656	-
Randolph Air Force Base Year 14 (2017)	467,890	-	7,304	460,586
Randolph Air Force Base Year 15 (2018)	244,626	-	-	244,626

Total Project Expenditures	\$ 1,285,936	\$ 392,764	\$ 187,960	\$ 705,212
Reserve - Future Capital Improvements	590,407	-	-	590,407
TOTAL APPROPRIATIONS	\$ 1,876,343	\$ 392,764	\$ 187,960	\$ 1,295,619

Description

The San Antonio River Authority, through a contract with the federal government, has responsibility for the Randolph Air Force Base (RAFB) wastewater collection system which provides service to customers of the Randolph Air Force Base installation adjacent to Universal City in Bexar County. The Utilities Department operates and maintains the River Authority-owned collection system in the Randolph Air Force Base installation and completes projects annually that improve the system. The Randolph Air Force Base Renewals and Replacement Fund accounts for the capital improvement projects completed annually to maintain the collection system. Every year, several pipe replacement and manhole improvements projects are completed.

The following describes the projects currently accounted for in this fund.

Projects**Randolph Air Force Base**

Project Budget: \$705,212

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

As stated, every year, the River Authority rehabilitates portions of the Randolph Air Force Base (RAFB) collection system based on a 50 year plan. The River Authority reassesses the sewer lines by closed circuit television to determine lateral locations which are in poor condition, as well as determine the best type of rehabilitation. Repairs and improvements are then completed for the identified line, and the manholes involved are coated.

In FY 2017/18, the River Authority will complete year 14 (2017) projects. This includes rehabilitation of 976 linear feet of 15 inch pipe by cast in place pipe (CIPP) and rehabilitations of six manholes by installing new rings and covers and spraying the manhole's interior with epoxy liner. Additionally, year 14 includes rehabilitation of two lift stations by installing new pumps, electrical panels and spraying the interior of the lift stations with epoxy liner. The projects slated to begin in year 15 (2018) include rehabilitation of 2,085 linear feet of eight inch pipe by CIPP, rehabilitation of six manholes by installing new rings and covers and spraying the manhole's interior with epoxy liner, and the installation of one new manhole. Operations and maintenance expenditures for these improvements are included in the FY 2017/18 Adopted Budget.

San Antonio River Authority
 Salatrillo Construction and Improvements Fund
 Fiscal Year Ending June 30, 2018

Fund: 81

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Transfers	\$ 3,609,519	\$ 3,249,519	\$ 360,000	\$ -
Investment Income	146,445	123,762	7,683	15,000
Impact Fees	3,997,272	3,781,272	216,000	-
Connection Fees	364,500	-	63,450	301,050
TOTAL AVAILABLE FUNDS	\$ 8,117,736	\$ 7,154,553	\$ 647,133	\$ 316,050

APPROPRIATIONS

Projects

City Metering	\$ 533,500	\$ 477,859	\$ 44,640	\$ 11,001
Salatrillo & Martinez Sewershed Models	305,407	-	106,849	198,558
Salatrillo Collection System - Inflow and Infiltration				
Retail Collection System	135,407	-	-	135,407
Wholesale Collection System	1,379,032	656,142	-	722,890
Improvements	220,000	-	-	220,000
Screw Pump Replacement	1,092,826	1,092,826	-	-
Subsurface Utility Exploration & Utility Mapping	94,193	-	1,179	93,014
Utilities SCADA System	301,099	251,099	-	50,000

Total Project Expenditures	\$ 4,061,464	\$ 2,477,926	\$ 152,668	\$ 1,430,870
Impact Fee Reserve	3,997,272	-	-	3,997,272
Connection Fee Reserve	-	-	-	-
Reserve - Future Capital Improvements	59,000	-	-	59,000
TOTAL APPROPRIATIONS	\$ 8,117,736	\$ 2,477,926	\$ 152,668	\$ 5,487,142

Description

The Salatrillo Wastewater Treatment System includes wholesale, retail and reuse water services. Wholesale wastewater service is provided to the cities of Converse, Live Oak, and Universal City. Each city maintains and operates the collection systems within its city limits; however, the main outfall lines from the cities are maintained by Utilities Department personnel. The retail portion of the Salatrillo Wastewater System provides retail wastewater services to parts of the City of San Antonio and Bexar County. The Salatrillo Reuse function provides reuse water and delivery services to Universal City as well as Alamo Community Colleges – Northeast Lakeview campus.

The Salatrillo Construction and Improvements Fund accounts for all of the construction and improvements to the Salatrillo wastewater system – wholesale, retail and reuse.

The following describes the projects currently active in this system and fund.

Projects

City Metering for Salatrillo Wastewater Treatment System

Project Budget: \$533,500

Estimated Completion Date: Transitioned to Operations and Maintenance

Estimated Future Operations and Maintenance Costs: \$0

The River Authority established meters to measure the actual flows coming from each of the cities of Universal City, Live Oak and Converse served by the Salatrillo Wastewater System. The meters show not only flow rates but also help to identify any inflow or infiltration problems coming from the collection infrastructure of each city as well as River Authority facilities. This information is used to help identify and address these inflow and infiltration issues.

This project began in FY 2010/11 with the installation of flow meters within the Salatrillo Wastewater Treatment Plant collection system. However, sufficient rain events did not occur until FY 2014/15 when the meters began to measure inflow and infiltration in FY 2014/15. In FY 2015/16, the River Authority worked with the cities of Universal City, Live Oak and Converse to share the data generated by the meters and during FY 2016/17, the River Authority continued to monitor meters to show any inflow or infiltration problems coming from these cities and River Authority facilities and worked with each city to develop a plan for system improvements to reduce inflow and infiltration. The data collected from the city metering project is currently being used by the Salatrillo and Martinez Sewershed Models project.

Although the meters are still in place and the contract for the service was renewed, the city metering project was closed out in FY 2016/17. Going forward, costs associated with the metering program will be budgeted as part of the regular operations and maintenance of the Salatrillo Wastewater System. Therefore, in FY 2017/18, the city metering program and all associated operations and maintenance costs are budgeted in the Salatrillo Operating Fund.

Salatrillo and Martinez Sewershed Models

Project Budget: \$565,407

Estimated Completion Date: FY 2020/21

Estimated Future Operations and Maintenance Costs: \$0

This project develops comprehensive and dynamic sewershed system models for the Salatrillo and Martinez Wastewater Treatment Plants (WWTP). The models help to quantify available system capacity and identify inefficiencies that require attention. The projected 20-year growth demands are simulated throughout the Salatrillo and Martinez WWTP wastewater collection systems and treatment plants to identify infrastructure improvements that will be required to meet flow projections.

The project began in FY 2016/17 with the creation of a baseline model of the collection. In FY 2017/18, the deliverables include updated hydraulic models for the Salatrillo and Martinez WWTPs and planning documents that identify issues, as well as phased improvement and expansion projects. The project is funded by the San Antonio River Authority Wastewater System Construction and Improvements Fund (\$260,000) and the Salatrillo Construction and Improvement Fund (\$305,407). This project will not require any future operations and maintenance expenditures.

Salatrillo Collection System Inflow and Infiltration

Project Budget: \$858,297

Estimated Completion Date: FY 2020/21

Estimated Future Operations and Maintenance Costs: \$0

The River Authority has an on-going commitment to improve inflow and infiltration (I&I) into the various collection systems owned and operated by the River Authority. This includes the Salatrillo Wastewater System. Reducing I&I, which is water that enters into the collection system through leaks in the pipes and manholes, reduces flow into the treatment plant. The flow into the plant determines when additional plant capacity is required. Therefore, investment in reducing I&I postpones plant expansion – a more expensive investment than improving the collection system to reduce I&I.

The I&I project repairs defective manholes and defective lines in the system according to a 1 to 5 rating system, with 5 being the worst condition. Repairs throughout the system are occurring over a ten year period.

In FY 2017/18, \$569,297 is expected to be expended on this project to repair defective lines and manholes. \$433,890 is budgeted for the wholesale system where River Authority staff will work with a contractor to rehabilitate 544 linear feet of 24 inch pipe by cast in place pipe (CIPP) and four manholes by installing new rings and covers and spraying the manhole's interior with epoxy liner. The retail system's budget is \$135,407 for the rehabilitation of 11 manholes by installing new rings and covers and spraying the manhole's interior with epoxy liner. Future operations and maintenance expenditures could be reduced as a result of repair and replacement of aging pipe infrastructure.

Salatrillo Wastewater Treatment Plant Improvements

Project Budget: \$220,000

Estimated Completion Date: Operations and Maintenance

Estimated Future Operations and Maintenance Costs: \$0

As part of the Capital Improvement Plan and Renewal and Replacement Plan, staff has identified various improvements needed at the Salatrillo Wastewater Treatment Plant based on age and condition of the equipment. For FY 2017/18, staff will replace electrical cubicle boxes and four brush aerators due to age and continuous repairs. Future operations and maintenance expenditures could be reduced as a result of repair and replacement of this equipment.

Screw Pump Replacement

Project Budget: \$1,484,660

Estimated Completion Date: Project Completed

Estimated Future Operations and Maintenance Costs: \$0

An existing screw pump at the Salatrillo Wastewater Treatment Plant failed in FY 2014/15. To address this issue, this project removed the 54-inch existing failed screw pump, replacing it with a new 54-inch screw pump. The project involved structural, electrical and instrumentation, and control modifications. This was an emergency project that required an immediate start due to one existing pump that failed. This project was completed in July 2015. Future operations and maintenance expenditures could be reduced as a result of repair and replacement of this equipment.

Subsurface Utility Exploration and Utility Mapping

Project Budget: \$198,313

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

The Subsurface Utility Exploration and Utility Mapping Project provides better information on the existing utility lines at the River Authority's treatment plants. This project supports future utility projects and expansions at Upper Martinez, Martinez II and Salatrillo Wastewater Treatment Plants (WWTP). This mapping effort is being performed in phases. This project began in FY 2016/17 with mapping and conflict analysis for the Salatrillo wastewater treatment plant (WWTP). In FY 2017/18, the Phase I mapping and conflict analysis of the Salatrillo WWTP will be completed. The consultant will use existing maps and use both above and below ground methods and equipment to fill in the gaps. Some of the exploration methods and equipment that may be used are digging test holes, magnetic finders, and metal detectors. Future phases will be conducted on the Martinez II WWTP and Upper Martinez WWTP. The project is funded by the San Antonio River Authority Wastewater System Construction and Improvements Fund (\$104,120) and Salatrillo Construction and Improvement Fund (\$94,193). This project will not require any future operations and maintenance expenditures.

Utilities Supervisory Control and Data Acquisition System (SCADA)

Project Budget: \$909,859

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Supervisory Control and Data Acquisition (SCADA) program provides communications and controls for the River Authority wastewater and water systems from one central computer system, creating better control over these systems. This application helps to comply with homeland security within the region; it also provides a real-time monitoring and control system to improve efficiency. Utilities will eventually share data through the SCADA system with Watershed and Park Operations, Watershed Management, and Environmental Sciences departments.

Since the kick-off of this project in FY 2007/08, several of the utility's major and package treatment plants, as well as lift stations are already fully functional in the SCADA system with installations completed in prior fiscal years. In FY 2017/18, additional improvements that have been identified will be completed to the Salatrillo Wastewater Treatment Plant SCADA system, including real-time monitoring of clarifier sludge depths that will provide utility operators with the ability to better monitor treatment conditions remotely. These expenditures will total \$50,000 in FY 2017/18 for the Salatrillo system. The total project budget for both the Martinez system and the Salatrillo system is \$909,859. The San Antonio River Authority Wastewater System Construction and Improvements Fund contributed (\$608,760) and Salatrillo Construction and Improvement Fund contributed (\$301,099). Operations and maintenance costs could be reduced as a result of full use of this system as it creates system management efficiencies.

San Antonio River Authority
 Salatrillo Reuse Construction and Improvements Fund
 Fiscal Year Ending June 30, 2018

Fund: 86

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 439,822	\$ 439,822	\$ -	\$ -
TOTAL AVAILABLE FUNDS	\$ 439,822	\$ 439,822	\$ -	\$ -

APPROPRIATIONS

Projects

Transfers	\$ 242,602	\$ 242,602	\$ -	\$ -
Debt Service	197,220	197,220	-	-

Total Project Expenditures	\$ 439,822	\$ 439,822	\$ -	\$ -
TOTAL APPROPRIATIONS	\$ 439,822	\$ 439,822	\$ -	\$ -

Salatrillo Reuse Construction and Improvements Fund

Fund 86

Description

The Salatrillo Reuse system provides reuse water and delivery services to Universal City as well as Alamo Community Colleges – Northeast Lakeview campus. These services are provided through contractual agreements. The reuse water is obtained from the Salatrillo Wastewater Treatment System. The areas served are located in Bexar County. The River Authority issued debt and manages the construction of the reuse system on behalf of Universal City and Alamo Community Colleges. These entities pay the debt service associated with the construction costs. The Salatrillo Reuse Construction and Improvements Fund accounted for the construction costs and debt service for these projects. For FY 2017/18, debt service will be paid out of the Salatrillo Operating Fund.

This fund closed in FY 2015/16. The remaining funds were transferred to the Salatrillo Construction and Improvements Fund.

San Antonio River Authority
SARA Wastewater Systems Construction and Improvements Fund
Fiscal Year Ending June 30, 2018

Fund: 80

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
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Available Funds

Intergovernmental Revenue	\$ 1,296,506	\$ -	\$ -	\$ 1,296,506
Proceeds from Debt	9,500,000	-	-	\$ 9,500,000
Other Contributions	967	-	-	967
Transfers	10,045,028	6,029,180	1,715,848	2,300,000
Investment Income	99,687	75,561	9,126	15,000
Connection Fees	4,745,605	793,391	1,702,214	2,250,000
TOTAL AVAILABLE FUNDS	\$ 25,687,793	\$ 6,898,132	\$ 3,427,188	\$ 15,362,473

APPROPRIATIONS

Projects

IH10 Sewer Line Relocation	\$ 1,295,467	\$ 188,140	\$ 210,619	\$ 896,708
Martinez IV Land Acquisition	-	-	-	-
Martinez IV Wastewater System and Phase IV Collection Line	10,853,561	-	163,694	10,689,867
Rehab Upper Martinez Clarifier	503,772	503,772	-	-
Salatrillo and Martinez Sewershed Models	260,000	-	-	260,000
SARA WWTP - Inflow and Infiltration	2,272,731	1,620,182	285,140	367,409
Screw Pump Replacement - Martinez II	1,481,660	-	-	1,481,660
Subsurface Utility Exploration & Utility Mapping	104,120	-	-	104,120
Utilities SCADA System	608,760	373,615	14,590	220,555
WWTP Roadwork Improvements	195,340	-	-	195,340
Connection Fee Expenditures	3,066,400	971,750	94,650	2,000,000

Total Project Expenditures	\$ 20,641,811	\$ 3,657,459	\$ 768,693	\$ 16,215,659
Connection Fee Reserve	1,679,205	-	-	1,679,205
Reserve - Future Capital Improvements	3,366,777	-	-	3,366,777
TOTAL APPROPRIATIONS	\$ 25,687,793	\$ 3,657,459	\$ 768,693	\$ 21,261,641

San Antonio River Authority Wastewater System – Construction and Improvements Fund

Fund 80

Description

The San Antonio River Authority (River Authority) wastewater system has several plants as well as a collections system, all of which are operated and maintained by Utility Department staff. The plants include: the Upper Martinez Wastewater System, the Martinez II Wastewater System, the Martinez III Wastewater System, Martinez IV, Woodlake Reuse, and the Highway 181 Wastewater System. These systems primarily serve residents and the business community located within portions of eastern/northeast Bexar County.

The San Antonio River Authority Wastewater System – Construction and Improvements Fund is used to budget and manage all expenditures related to infrastructure improvements to the wastewater treatment systems' plants and collection system.

The following describes the projects currently active in this system and fund.

Projects

IH 10 Martinez II Wastewater Line Relocation Project

Project Budget: \$1,295,467

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This project relocates approximately 1,800 feet of 21 inch diameter wastewater line located along Interstate Highway (IH) 10 in the Texas Department of Transportation (TxDOT) right of way, between Martinez Creek and FM 1516. TxDOT is making improvements to IH 10 requiring the line to be moved into private easements. The River Authority will be reimbursed by TxDOT for the design and construction expenses. However, all right-of-way acquisition costs are the responsibility of the SARA Wastewater System.

In FY 2016/17, the relocation and replacement of the existing thirty plus year old wastewater line was started to respond to the TxDOT project and to the growing demand for wastewater service in this area. Based on the timeline for construction, this project should be completed by the beginning of FY 2017/18. Operations and maintenance costs for this project are included in the FY 2017/18 Adopted Budget.

Martinez IV Land Acquisition

Project Budget: \$0

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The parcel adjacent to the new Martinez IV wastewater treatment plant (WWTP) is currently for sale. If acquired, this property could provide room for future expansions of the Martinez IV

Wastewater Treatment Plant. In FY 2017/18, this project is authorized but unfunded. Operations and maintenance of this land would be completed by existing staff; therefore, no additional costs would be incurred.

Martinez IV Wastewater System and Phase IV Wastewater Line

Project Budget: \$10,853,561

Estimated Completion Date: FY 2019/20

Estimated Future Operations and Maintenance Costs: approximately \$80,000

The River Authority continues to receive requests for sewer service in the Martinez IV service area as development expands into eastern Bexar County. The demand has reached a point where it is necessary to begin construction of a regional wastewater treatment plant to serve the existing Martinez IV wastewater collection system. The River Authority constructed the collection system's segments 1 to 6 (Phase IIa) in FY 2008/09 and segments 11 and 12 (or Phase III) in FY 2013/14. In FY 2016/17, staff was approached for wastewater service by developers in the Phase IV area located east of the proposed treatment plant.

The Martinez III Wastewater Treatment Plant (WWTP), a temporary package treatment plant that serves development in the northern portion of the Martinez IV service area system, has a treatment capacity of 150,000 gallons per day (GPD) and will likely be at or near capacity in the near future. With the temporary package plant nearing capacity and continued growth in residential development, it has become necessary to implement the design and construction of the Martinez IV WWTP.

In FY 2016/17, the design/build contract for construction of this plant was awarded. Staff has also applied to a Texas Water Development Board program that provides below market interest rates for debt issued for wastewater plant construction. This funding is expected to be approved.

For FY 2017/18, the first phase (Phase IV) of the new 250,000 GPD treatment plant will be designed and constructed. Additionally, 14,000 linear feet of wastewater collection line will be completed to serve new development east of the WWTP. The overall final permitted flow rate for the system is 2.0 MGD. Additional operations and maintenance costs will be incurred at the new plant, mainly for supplies and services. The estimated additional expenditure is \$80,000 annually.

Rehabilitation of Upper Martinez Wastewater Treatment Plant Clarifier

Project Budget: \$503,772

Estimated Completion Date: Project Completed

Estimated Future Operations and Maintenance Costs: \$0

One of the clarifiers at Upper Martinez WWTP was in need of replacement due to its age. This project evaluated treatment technologies, selected an appropriate engineered solution, designed modifications for project integration, procured new equipment, directed and managed the construction at the plant site and finally provided training for San Antonio River Authority staff to efficiently operate the equipment.

The clarifier rehabilitation project contract end date was February 2016. An evaluation was performed on four different types of filters to use as tertiary treatment for the reuse system which was part of the original clarifier analysis. Some improvements were made to the new clarifier mechanicals that should assist in improved water quality. The decision was made that filters will be delayed until the performance of the new equipment can be assessed and until a contract for reuse water is secured. This project was completed in FY 2016/17. Operations and maintenance costs associated with this project are included in the FY 2017/18 Adopted Budget.

Salatrillo and Martinez Sewershed Models

Project Budget: \$565,407

Estimated Completion Date: FY 2020/21

Estimated Future Operations and Maintenance Costs: \$0

This project develops comprehensive and dynamic sewershed system models for the Salatrillo and Martinez Wastewater Treatment Plants (WWTP). The models help to quantify available system capacity and identify inefficiencies that require attention. The projected 20-year growth demands are simulated throughout the Salatrillo and Martinez WWTP wastewater collection systems and treatment plants to identify infrastructure improvements that will be required to meet flow projections.

The project began in FY 2016/17 with the creation of a baseline model of the collection. In FY 2017/18, the deliverables include updated hydraulic models for the Salatrillo and Martinez WWTPs and planning documents that identify issues, as well as phased improvement and expansion projects. The project is funded by the San Antonio River Authority Wastewater System Construction and Improvements Fund (\$260,000) and the Salatrillo Construction and Improvement Fund (\$305,407). This project will not require any future operations and maintenance expenditures.

San Antonio River Authority Wastewater Collection System Inflow and Infiltration

Project Budget: \$2,272,731

Estimated Completion Date: FY 2020/21

Estimated Future Operations and Maintenance Costs: \$0

The River Authority has an on-going commitment to improve inflow and infiltration (I&I) into the various collection systems owned and operated by the River Authority. This includes the San Antonio River Authority Wastewater System. Reducing I&I, which is water that enters into the collection system through leaks in the pipes and manholes, reduces flow into the treatment plants. The flow into the plant determines when additional plant capacity is required. Therefore, investment in reducing I&I postpones plant expansion – a more expensive investment than improving the collection system to reduce I&I.

Beginning in FY 2011/12, the I&I project repairs defective manholes and defective lines in the system according to a 1 to 5 rating system, with 5 being the worst condition. Repairs throughout the system are occurring over a ten year period.

In FY 2017/18, \$367,409 is expected to be expended on this project to repair defective lines and manholes. River Authority staff will work with a contractor to rehabilitate 372 linear feet of 8 inch pipe and 892 linear feet of 15 inch pipe by cast in place pipe (CIPP) and 2 manholes by installing new rings and covers and spraying the manhole's interior with epoxy liner. This program is expected to continue through FY 2020/21. Future operations and maintenance expenditures could be reduced as a result of repair and replacement of aging pipe infrastructure.

Screw Pump Replacement – Martinez II

Project Budget: \$1,481,660

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

The Martinez II Screw pump project designs and constructs the 48-inch screw pump and the 66-inch screw pump at the Martinez II Wastewater Treatment Plant. Both screw pumps were installed in 1986. The 48-inch screw pump is currently out of service and cannot be repaired. The 66-inch screw pump has had some final repairs and needs to be replaced due to the end of useful life.

For FY 2017/18, the project will have the design completed and a construction contract awarded. It is anticipated that equipment will be ordered and the project completed in FY 2018/19. Operations and maintenance expenditures could be reduced slightly as a result of new equipment being put into place.

Subsurface Utility Exploration and Utility Mapping

Project Budget: \$198,313

Estimated Completion Date: FY 2018/19

Estimated Future Operations and Maintenance Costs: \$0

The Subsurface Utility Exploration and Utility Mapping Project provides better information on the existing utility lines at the River Authority's treatment plants. This project supports future utility projects and expansions at Upper Martinez, Martinez II and Salatrillo Wastewater Treatment Plants (WWTP). This mapping effort is being performed in phases. In FY 2017/18, the Phase I mapping and conflict analysis of the Salatrillo WWTP will be completed. The consultant will use existing maps and use both above and below ground methods and equipment to fill in the gaps. Some of the exploration methods and equipment that may be used are digging test holes, magnetic finders, and metal detectors. The project is funded by the San Antonio River Authority Wastewater System Construction and Improvements Fund (\$104,120) and Salatrillo Construction and Improvement Fund (\$94,193). This project will not require any future operations and maintenance expenditures.

Utilities Supervisory Control and Data Acquisition System (SCADA)

Project Budget: \$909,859

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

The Supervisory Control and Data Acquisition (SCADA) program provides communications and controls for the River Authority wastewater and water systems from one central computer system,

creating better control over these systems. This application helps to comply with homeland security within the region; it also provides a real-time monitoring and control system to improve efficiency. Utilities will eventually share data through the SCADA system with Watershed and Park Operations, Watershed Management, and Environmental Sciences departments.

Since the kick-off of this project in FY 2007/08, several of the utility's major and package treatment plants, as well as lift stations have become fully functional in the SCADA system with installations completed in prior fiscal years. In FY 2017/18, additional improvements that have been identified will be completed to the Salatrillo Wastewater Treatment Plant SCADA system, including real-time monitoring of clarifier sludge depths that will provide utility operators with the ability to better monitor treatment conditions remotely.

These expenditures will total \$220,555 in FY 2017/18 for the San Antonio River Authority wastewater system. The total project budget for both the Martinez system and the Salatrillo system is \$909,859. The San Antonio River Authority Wastewater System Construction and Improvements Fund contributed (\$608,760) and Salatrillo Construction and Improvement Fund contributed (\$301,099). Operations and maintenance costs could be reduced as a result of full use of this system as it creates system management efficiencies.

Wastewater Treatment Plant Roadwork Improvements

Project Budget: \$195,340

Estimated Completion Date: FY 2017/18

Estimated Future Operations and Maintenance Costs: \$0

This project completes roadway improvements at Upper Martinez and Martinez II Wastewater Treatment Plants (WWTPs). Upper Martinez needs a new concrete apron tie into Binz Engleman Road. This entrance was built in 1984 and supports the WWTP and the hay storage area for the Watershed and Park Operations Department. Martinez II has a new subgrade in the shop area that needs to be chip sealed to control dust, and the entrance road constructed in 2010 needs to have cracks addressed that were caused by the highly expansive clays that have been influenced by drought then rains causing the asphalt movement and cracking.

In FY 2017/18, these roadway projects will be designed, bid, and constructed. Future operations and maintenance costs could be reduced as the newer roadway will require less maintenance and repair.



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions

San Antonio River Authority
Debt Service Fund
Fiscal Year Ending June 30, 2018

Fund: 02

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 2,412,212	\$ 2,638,479	\$ 2,600,501	\$ 2,600,216
Debt Service Reserve - Channel Improvements	1,874,814	1,874,814	1,874,814	1,874,814
Total Beginning Balance	\$ 4,287,026	\$ 4,513,293	\$ 4,475,315	\$ 4,475,030
Revenue				
Investment Earnings	\$ 12,343	\$ 20,000	\$ 25,715	\$ 28,300
Intergovernmental Revenue	2,986,452	3,433,070	2,975,910	2,975,406
Transfers - General Fund	631,485	597,184	596,184	596,184
Total Revenue	\$ 3,630,280	\$ 4,050,254	\$ 3,597,809	\$ 3,599,890
TOTAL AVAILABLE FUNDS	\$ 7,917,306	\$ 8,563,547	\$ 8,073,124	\$ 8,074,920
APPROPRIATIONS				
Debt Service - Channel Improvement Bonds	\$ 3,441,991	\$ 2,975,910	\$ 2,975,910	\$ 2,975,406
Debt Service - Contract Revenue	-	457,160	-	-
Debt Service - Texas Water Dev Board	-	466,198	466,198	465,946
Debt Service - Urban Reach Operations Center	-	130,986	130,986	130,204
Debt Service - Operation Expenses	-	25,000	25,000	25,000
TOTAL OPERATING APPROPRIATIONS	\$ 3,441,991	\$ 4,055,254	\$ 3,598,094	\$ 3,596,556
Unrestricted Fund Balance	2,600,501	2,633,479	2,600,216	2,603,550
Debt Service Reserve - Channel Improvements	1,874,814	1,874,814	1,874,814	1,874,814
TOTAL APPROPRIATIONS	\$ 7,917,306	\$ 8,563,547	\$ 8,073,124	\$ 8,074,920

Description

The San Antonio River Authority has issued debt to fund needed capital improvement projects including flood control structures and wastewater treatment plant and collection system improvements as well as a facility for parks maintenance and operations staff. In addition, the San Antonio River Authority Public Facilities Corporation issued debt for the construction of a maintenance facility for the Watershed and Park Operations staff. The River Authority has also issued debt on behalf of partner agencies to fund improvements to their wastewater and reuse systems that benefit the San Antonio watershed. In FY 2015/16, the River Authority issued surplus revenue bonds to fund the purchase and renovation of the Urban Reach Operations Center which houses staff that manage the Museum Reach San Antonio River improvements. In FY 2017/18, the River Authority intends to issue \$9.5 million in revenue bonds supported by the San Antonio River Authority Wastewater System. This debt will fund construction of the new Martinez IV Wastewater Treatment Plant and collection line. Principal and interest payments will be facilitated through the wastewater utility funds, as is currently true for all wastewater revenue bonds issued. The River Authority is currently working with the Texas Water Development Board to take advantage of their Clean Water State Revolving Fund program that provides below market interest rates for debt. The debt previously issued for flood control is supported entirely by the Bexar County flood control tax.

The San Antonio River Authority has no legal debt limits. However, the enabling statute of the River Authority prohibits the River Authority from pledging any ad valorem tax revenue to a debt issuance. The outstanding debt for the River Authority is currently paid from: Bexar County flood control property tax revenue (through a contract with Bexar County); wastewater systems revenues (generated from user fees); other outside agencies through contract (Alamo College District and Universal City); and surplus revenue – utility and/or General Fund – that are not from ad valorem taxes. The General Fund, because ad valorem taxes cannot support debt service, is not impacted by existing debt obligations. The wastewater utility systems' rates are set to provide sufficient funding for the annual debt service requirements. Therefore, the existing debt does not negatively impact any of the River Authority's current operations.

The amounts budgeted in this fund reflect the principal and interest payments for non-utility related outstanding debt. The tables below provide information on the purpose, use and amount of the debt. The second set of tables shows the River Authority's total principal and interest payments for the life of the existing outstanding debt by issuance. The River Authority does not expect to issue any new debt in FY 2017/18 on behalf of the General Fund. As stated, a debt issuance for the utility system will occur in FY 2017/18 to fund construction of a new wastewater treatment plant and collection line.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Debt Service – Channel Improvement Bonds	\$ 3,441,991	\$2,975,910	\$2,975,406
Debt Service – Contract Revenue	-	-	-
Debt Service – Operation Expenses	-	25,000	25,000
Debt Service – TX Water Dev Board	-	466,198	465,946
Debt Service – Urban Reach Operations Center	-	130,986	130,204
<i>Total Appropriations</i>	<i>\$3,441,991</i>	<i>\$3,598,094</i>	<i>\$3,596,556</i>

Program Justification and Fiscal Analysis

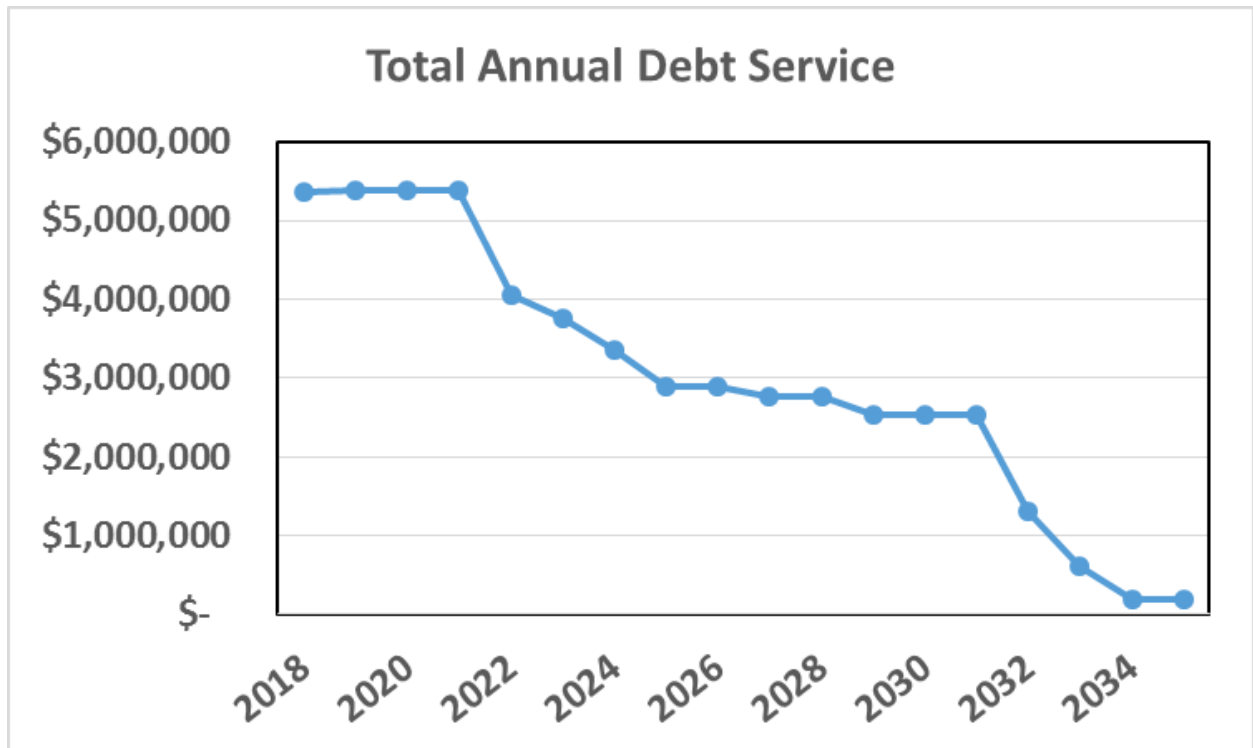
The FY 2017/18 Budget for the Debt Service fund includes the full principal and interest payments on the outstanding debt other than that supported by the wastewater utility. The principal and interest costs for that debt are budgeted and paid in the San Antonio River Authority Wastewater System Operating Fund. The debt service for the contracted debt for the reuse system is funded through the Salatrillo Operating Fund. The River Authority’s total debt service remains effectively the same for FY 2017/18 in comparison to FY 2016/17.

San Antonio River Authority Currently Outstanding Debt

Description	Original Issue Amount	Outstanding Principal	Interest Rate	Issue and Maturity Date	Purpose
<u>Channel Improvement Bonds</u>					
Channel Improvement Revenue Refunding Bonds - Series 2007	\$ 14,525,000	\$ 12,415,000	4.39%	June 2007 to July 2032	Refund outstanding Channel Improvement Revenue Bonds - Series 2000 and Series 2002
Channel Improvement Revenue Refunding Bonds - Series 2014	\$ 5,165,000	\$ 2,785,000	1.24%	February 2014 to July 2020	Refund outstanding Channel Improvement Revenue Bonds - Series 2002 and Refunding Bonds Series 2003A
Channel Improvement Revenue Refunding Bonds - Series 2015	\$ 8,265,000	\$ 6,205,000	1.90%	January 2015 to June 2028	Refund outstanding Channel Improvement Revenue Bonds - Series 2004
<u>Wastewater System Revenue Bonds</u>					
Wastewater System Revenue Bonds - Series 2010	\$ 9,785,000	\$ 7,685,000	4.79%	November 2010 to January 2031	Expanding the capacity of an existing wastewater treatment plant
Utility System Revenue Refunding Bonds - Series 2013	\$ 3,120,000	\$ 2,175,000	2.89%	September 2013 to July 2022	Refund outstanding Sewage System Revenue Refunding and Improvement Bonds, Series 2003
<u>Contract Revenue Bonds</u>					
Wastewater System Contract Revenue Bonds - Series 2010 - Alamo Community College District First Responders	\$ 981,960	\$ 765,000	4.56%	December 2010 to June 2031	Construction of a wastewater treatment plant for the Alamo Community College District's (ACCD) First Responders Wastewater Project
Wastewater System Contract Revenue Bonds - Series 2010 - Universal City Reuse Project	\$ 2,594,844	\$ 2,040,000	4.56%	December 2010 to June 2031	Construction of capital improvements to transport treated wastewater for Universal City
Wastewater System Contract Revenue Bonds - Series 2010 - Alamo Community College District Reuse Project	\$ 2,303,196	\$ 1,810,000	4.56%	December 2010 to June 2031	Construction of capital improvements to transport treated wastewater - known as the ACCD Effluent Transportation Project
<u>Other Debt</u>					
Wastewater System Revenue Improvement Bonds - Series 2013A - Texas Water Development Board	\$ 4,300,000	\$ 3,040,000	1.10%	October 2013 to June 2024	Grant/loan from the Texas Water Development Board for projects and studies
San Antonio River Authority Public Facility Corporation - Mission Reach Operations Center - Lease Revenue Bonds - Series 2014	\$ 3,100,000	\$ 2,714,000	2.10%	January 2014 to June 2035	Construction of the Mission Reach Operations Center facility
Surplus Revenue Bonds	\$ 1,200,000	\$ 1,085,000	1.77%	May 2016 to June 2026	Purchase and renovation of the Urban Reach Operations Center
Total	\$ 55,340,000	\$ 42,719,000			

SAN ANTONIO RIVER AUTHORITY TOTAL ANNUAL DEBT SERVICE REQUIREMENTS

Fiscal Year Ending June 30	Channel Improvement Bonds	Utility Bonds	Public Facilities Corporation Bonds	General Improvement Revenue Bonds	Contract Revenue Bonds	Annual Total
2018	\$ 2,972,406	\$ 1,630,396	\$ 181,783	\$ 129,205	\$ 455,444	\$ 5,369,234
2019	2,975,393	1,635,012	181,915	132,258	454,272	5,378,850
2020	2,976,772	1,629,687	181,386	130,222	457,644	5,375,711
2021	2,975,349	1,626,617	181,137	133,187	455,332	5,371,622
2022	1,652,148	1,634,098	180,229	131,063	457,564	4,055,102
2023	1,350,998	1,634,665	180,713	133,939	454,112	3,754,427
2024	1,360,276	1,234,215	179,663	131,726	455,204	3,361,084
2025	1,352,533	773,250	181,579	129,514	450,612	2,887,488
2026	1,353,319	770,750	181,664	132,301	445,564	2,883,598
2027	1,357,371	772,000	181,690		450,060	2,761,121
2028	1,363,905	771,750	181,658		453,644	2,770,957
2029	1,120,225	770,000	181,567		451,316	2,523,108
2030	1,121,913	771,750	181,418		448,304	2,523,385
2031	1,126,463	771,750	181,210		449,608	2,529,031
2032	1,133,650		180,944			1,314,594
2033	434,563		181,609			616,172
2034			181,207			181,207
2035			180,745			180,745
Total	\$ 26,627,284	\$ 16,425,940	\$ 3,262,117	\$ 1,183,415	\$ 6,338,680	\$ 53,837,436



**Wastewater System Revenue Improvement Bonds - Texas Water Development Board
Series 2013A**

Period Ending	Annual Principal Amount	Coupon Rate	Interest Amount	Debt Service	Annual Debt Service
7/1/2017			22,473	22,473	
1/1/2018	420,000	0.520%	22,473	442,473	
6/30/2018					464,946
7/1/2018			21,381	21,381	
1/1/2019	425,000	0.900%	21,381	446,381	
6/30/2019					467,762
7/1/2019			19,468	19,468	
1/1/2020	425,000	1.240%	19,468	444,468	
6/30/2020					463,937
7/1/2020			16,833	16,833	
1/1/2021	430,000	1.580%	16,833	446,833	
6/30/2021					463,667
7/1/2021			13,436	13,436	
1/1/2022	440,000	1.820%	13,436	453,436	
6/30/2022					466,873
7/1/2022			9,432	9,432	
01/01/2023	445,000	2.000%	9,432	454,432	
6/30/2023					463,865
07/01/2023			4,982	4,982	
1/1/2024	455,000	2.190%	4,982	459,982	
6/30/2024					464,965
TOTALS	<u>3,040,000</u>		<u>216,012</u>	<u>3,256,012</u>	<u>3,256,012</u>

**Wastewater System Revenue Bonds – Urban Reach Operations Center
Series 2016**

Period Ending	Annual Principal Amount	Coupon Rate	Interest Amount	Debt Service	Annual Debt Service
8/1/2017			9,602	9,602	
2/1/2018	110,000	1.77%	9,602	119,602	
6/30/2018					129,204
8/1/2018			8,628	8,628	
2/1/2019	115,000	1.77%	8,629	123,629	
6/30/2019					132,257
8/1/2019			7,611	7,611	
2/1/2020	115,000	1.77%	7,611	122,611	
6/30/2020					130,222
8/1/2020			6,593	6,593	
2/1/2021	120,000	1.77%	6,594	126,594	
6/30/2021					133,187
8/1/2021			5,531	5,531	
2/1/2022	120,000	1.77%	5,532	125,532	
6/30/2022					131,063
8/1/2022			4,469	4,469	
2/1/2023	125,000	1.77%	4,470	129,470	
6/30/2023					133,939
8/1/2023			3,363	3,363	
2/1/2024	125,000	1.77%	3,363	128,363	
6/30/2024					131,726
8/1/2024			2,257	2,257	
2/1/2025	125,000	1.77%	2,256	127,256	
6/30/2025					129,513
8/1/2025			1,150	1,150	
2/1/2026	130,000	1.77%	1,151	131,151	
6/30/2026					132,301
TOTALS	<u>1,085,000</u>		<u>98,412</u>	<u>1,183,412</u>	<u>1,183,412</u>

**Lease Revenue Bonds
Series 2014**

Period Ending	Annual Principal Amount	Coupon Rate	Interest Amount	Debt Service	Annual Debt Service
10/1/2017	123,000	1.280%	29,785	152,785	
4/1/2018			28,998	28,998	
6/30/2018					181,783
10/1/2018	125,000	1.730%	28,998	153,998	
4/1/2019			27,917	27,917	
6/30/2019					181,915
10/1/2019	127,000	2.280%	27,917	154,917	
4/1/2020			26,469	26,469	
6/30/2020					181,386
10/1/2020	130,000	2.770%	26,469	156,469	
4/1/2021			24,668	24,668	
6/30/2021					181,137
10/1/2021	133,000	3.170%	24,668	157,668	
4/1/2022			22,560	22,560	
6/30/2022					180,229
10/1/2022	138,000	3.490%	22,560	160,560	
4/1/2023			20,152	20,152	
6/30/2023					180,713
10/1/2023	142,000	3.720%	20,152	162,152	
4/1/2024			17,511	17,511	
6/30/2024					179,663
10/1/2024	148,000	1.950%	17,511	165,511	
4/1/2025			16,068	16,068	
6/30/2025					181,579
10/1/2025	151,000	1.950%	16,068	167,068	
4/1/2026			14,596	14,596	
6/30/2026					181,664
10/1/2026	154,000	1.950%	14,596	168,596	
4/1/2027			13,094	13,094	
6/30/2027					181,690
10/1/2027	157,000	1.950%	13,094	170,094	
4/1/2028			11,564	11,564	
6/30/2028					181,658
10/1/2028	160,000	1.950%	11,564	171,564	
4/1/2029			10,004	10,004	
6/30/2029					181,567
10/1/2029	163,000	1.950%	10,004	173,004	
4/1/2030	-		8,414	8,414	
6/30/2030					181,418
10/1/2030	166,000	1.950%	8,414	174,414	
4/1/2031			6,796	6,796	
6/30/2031					181,210
10/1/2031	169,000	1.950%	6,796	175,796	
4/1/2032			5,148	5,148	
6/30/2032					180,944
10/1/2032	173,000	1.950%	5,148	178,148	
4/1/2033			3,461	3,461	
6/30/2033					181,609
10/1/2033	176,000	1.950%	3,461	179,461	
4/1/2034			1,745	1,745	
6/30/2034					181,207
10/1/2034	179,000	1.950%	1,745	180,745	
6/30/2035					180,745
TOTALS	<u>2,714,000</u>		<u>548,115</u>	<u>3,262,115</u>	<u>3,262,115</u>

**Channel Improvement Bonds
Total**

Payment Date	Annual Principal Amount	Interest Amount	Total	Fiscal Year Amount
7/1/2017	2,305,000	346,496	2,651,496	
1/1/2018	-	320,910	320,910	2,972,406
7/1/2018	2,360,000	320,910	2,680,910	
1/1/2019	-	294,483	294,483	2,975,393
7/1/2019	2,415,000	294,483	2,709,483	
1/1/2020	-	267,288	267,288	2,976,772
7/1/2020	2,470,000	267,288	2,737,288	
1/1/2021	-	238,061	238,061	2,975,349
7/1/2021	1,195,000	238,061	1,433,061	
1/1/2022	-	219,088	219,088	1,652,148
7/1/2022	930,000	219,088	1,149,088	
1/1/2023	-	201,910	201,910	1,350,998
7/1/2023	975,000	201,910	1,176,910	
1/1/2024	-	183,366	183,366	1,360,276
7/1/2024	1,005,000	183,366	1,188,366	
1/1/2025	-	164,166	164,166	1,352,533
7/1/2025	1,045,000	164,166	1,209,166	
1/1/2026	-	144,153	144,153	1,353,319
7/1/2026	1,090,000	144,153	1,234,153	
1/1/2027	-	123,218	123,218	1,357,371
7/1/2027	1,140,000	123,218	1,263,218	
1/1/2028	-	100,688	100,688	1,363,905
7/1/2028	940,000	100,688	1,040,688	
1/1/2029	-	79,538	79,538	1,120,225
7/1/2029	985,000	79,538	1,064,538	
1/1/2030	-	57,375	57,375	1,121,913
7/1/2030	1,035,000	57,375	1,092,375	
1/1/2031	-	34,088	34,088	1,126,463
7/1/2031	1,090,000	34,088	1,124,088	
1/1/2032	-	9,563	9,563	1,133,650
7/1/2032	425,000	9,563	434,563	
1/1/2033	-	-	-	434,563
7/1/2033	-	-	-	
TOTALS	<u>21,405,000</u>	<u>5,222,281</u>	<u>26,627,281</u>	<u>26,627,281</u>

**Channel Improvement Refunding Revenue Bonds
Series 2007**

Payment Date	Annual Principal Amount	Coupon Rate	Interest Amount	Total	Fiscal Year Amount
7/1/2017	565,000	4.000%	270,281	835,281	
1/1/2018			258,981	258,981	1,094,263
7/1/2018	600,000	4.000%	258,981	858,981	
1/1/2019			246,981	246,981	1,105,963
7/1/2019	625,000	4.000%	246,981	871,981	
1/1/2020			234,481	234,481	1,106,463
7/1/2020	655,000	4.375%	234,481	889,481	
1/1/2021			220,153	220,153	1,109,634
7/1/2021	685,000	4.125%	220,153	905,153	
1/1/2022			206,025	206,025	1,111,178
7/1/2022	710,000	4.250%	206,025	916,025	
1/1/2023			190,938	190,938	1,106,963
7/1/2023	750,000	4.375%	190,938	940,938	
1/1/2024			174,531	174,531	1,115,469
7/1/2024	780,000	4.375%	174,531	954,531	
1/1/2025			157,469	157,469	1,112,000
7/1/2025	815,000	4.375%	157,469	972,469	
1/1/2026			139,641	139,641	1,112,109
7/1/2026	855,000	4.375%	139,641	994,641	
1/1/2027			120,938	120,938	1,115,578
7/1/2027	900,000	4.500%	120,938	1,020,938	
1/1/2028			100,688	100,688	1,121,625
7/1/2028	940,000	4.500%	100,688	1,040,688	
1/1/2029			79,538	79,538	1,120,225
7/1/2029	985,000	4.500%	79,538	1,064,538	
1/1/2030			57,375	57,375	1,121,913
7/1/2030	1,035,000	4.500%	57,375	1,092,375	
1/1/2031			34,088	34,088	1,126,463
7/1/2031	1,090,000	4.500%	34,088	1,124,088	
1/1/2032			9,563	9,563	1,133,650
7/1/2032	425,000	4.500%	9,563	434,563	
1/1/2033			-	-	434,563
TOTALS	12,415,000		4,733,056	17,148,056	17,148,056

**Channel Improvement Refunding Revenue Bonds
Series 2014**

Period Ending	Annual Principal Amount	Coupon Rate	Interest Amount	Debt Service	Annual Debt Service
7/1/2017	680,000	1.240%	17,267	697,267	
1/1/2018			13,051	13,051	710,318
7/1/2018	695,000	1.240%	13,051	708,051	
1/1/2019			8,742	8,742	716,793
7/1/2019	700,000	1.240%	8,742	708,742	
1/1/2020			4,402	4,402	713,144
7/1/2020	710,000	1.240%	4,402	714,402	
1/1/2021					714,402
TOTALS	<u>2,785,000</u>		<u>69,657</u>	<u>2,854,657</u>	<u>2,854,657</u>

**Channel Improvement Refunding Revenue Bonds
Series 2015**

Period Ending	Annual Principal Amount	Coupon Rate	Interest Amount	Debt Service	Annual Debt Service
7/1/2017	1,060,000	1.900%	58,948	1,118,948	
1/1/2018			48,878	48,878	1,167,825
7/1/2018	1,065,000	1.900%	48,878	1,113,878	
1/1/2019			38,760	38,760	1,152,638
7/1/2019	1,090,000	1.900%	38,760	1,128,760	
1/1/2020			28,405	28,405	1,157,165
7/1/2020	1,105,000	1.900%	28,405	1,133,405	
1/1/2021			17,908	17,908	1,151,313
7/1/2021	510,000	1.900%	17,908	527,908	
1/1/2022			13,063	13,063	540,970
7/1/2022	220,000	1.900%	13,063	233,063	
1/1/2023			10,973	10,973	244,035
7/1/2023	225,000	1.900%	10,973	235,973	
1/1/2024			8,835	8,835	244,808
7/1/2024	225,000	1.900%	8,835	233,835	
1/1/2025			6,698	6,698	240,533
7/1/2025	230,000	1.900%	6,698	236,698	
1/1/2026			4,513	4,513	241,210
7/1/2026	235,000	1.900%	4,513	239,513	
1/1/2027			2,280	2,280	241,793
7/1/2027	240,000	1.900%	2,280	242,280	
1/1/2028					242,280
TOTALS	<u>6,205,000</u>		<u>419,568</u>	<u>6,624,568</u>	<u>6,624,568</u>

**Wastewater System Revenue Bonds
Total**

Payment Date	Principal Amount	Interest Amount	Total	Year Amount
7/1/2017	335,000	217,738	552,738	
1/1/2018	400,000	212,713	612,713	1,165,450
7/1/2018	345,000	203,713	548,713	
1/1/2019	420,000	198,538	618,538	1,167,250
7/1/2019	355,000	188,038	543,038	
1/1/2020	440,000	182,713	622,713	1,165,750
7/1/2020	365,000	171,713	536,713	
1/1/2021	460,000	166,238	626,238	1,162,950
7/1/2021	380,000	156,463	536,463	
1/1/2022	480,000	150,763	630,763	1,167,225
7/1/2022	395,000	140,863	535,863	
1/1/2023	500,000	134,938	634,938	1,170,800
7/1/2023	-	124,625	124,625	
1/1/2024	520,000	124,625	644,625	769,250
7/1/2024	-	111,625	111,625	
1/1/2025	550,000	111,625	661,625	773,250
7/1/2025	-	97,875	97,875	
1/1/2026	575,000	97,875	672,875	770,750
7/1/2026	-	83,500	83,500	
1/1/2027	605,000	83,500	688,500	772,000
7/1/2027	-	68,375	68,375	
1/1/2028	635,000	68,375	703,375	771,750
7/1/2028	-	52,500	52,500	
1/1/2029	665,000	52,500	717,500	770,000
7/1/2029	-	35,875	35,875	
1/1/2030	700,000	35,875	735,875	771,750
7/1/2030	-	18,375	18,375	
1/1/2031	735,000	18,375	753,375	771,750
TOTALS	9,860,000	3,309,926	13,169,926	13,169,925

**Wastewater System Revenue Bonds
Series 2010**

Payment Date	Principal Amount	Coupon Rate	Interest Amount	Total	Year Amount
7/1/2017			185,113	185,113	
1/1/2018	400,000	4.500%	185,113	585,113	770,225
7/1/2018			176,113	176,113	
1/1/2019	420,000	5.000%	176,113	596,113	772,225
7/1/2019			165,613	165,613	
1/1/2020	440,000	5.000%	165,613	605,613	771,225
7/1/2020			154,613	154,613	
1/1/2021	460,000	4.250%	154,613	614,613	769,225
7/1/2021			144,838	144,838	
1/1/2022	480,000	4.125%	144,838	624,838	769,675
7/1/2022			134,938	134,938	
1/1/2023	500,000	4.125%	134,938	634,938	769,875
7/1/2023			124,625	124,625	
1/1/2024	520,000	5.000%	124,625	644,625	769,250
7/1/2024			111,625	111,625	
1/1/2025	550,000	5.000%	111,625	661,625	773,250
7/1/2025			97,875	97,875	
1/1/2026	575,000	5.000%	97,875	672,875	770,750
7/1/2026			83,500	83,500	
1/1/2027	605,000	5.000%	83,500	688,500	772,000
7/1/2027			68,375	68,375	
1/1/2028	635,000	5.000%	68,375	703,375	771,750
7/1/2028			52,500	52,500	
1/1/2029	665,000	5.000%	52,500	717,500	770,000
7/1/2029			35,875	35,875	
1/1/2030	700,000	5.000%	35,875	735,875	771,750
7/1/2030			18,375	18,375	
1/1/2031	735,000	5.000%	18,375	753,375	771,750
TOTALS	7,685,000		3,107,950	10,792,950	10,792,950

**Wastewater System Revenue Bonds
Series 2013**

Payment Date	Annual Principal Amount	Coupon Rate	Interest Amount	Debt Service	Annual Debt Service
7/1/2017	335,000	5.000%	32,625	367,625	
1/1/2018			27,600	27,600	395,225
7/1/2018	345,000	3.000%	27,600	372,600	
1/1/2019			22,425	22,425	395,025
7/1/2019	355,000	3.000%	22,425	377,425	
1/1/2020			17,100	17,100	394,525
7/1/2020	365,000	3.000%	17,100	382,100	
1/1/2021			11,625	11,625	393,725
7/1/2021	380,000	3.000%	11,625	391,625	
1/1/2022			5,925	5,925	397,550
7/1/2022	395,000	3.000%	5,925	400,925	400,925
TOTALS	<u>2,175,000</u>		<u>201,975</u>	<u>2,376,975</u>	<u>2,376,975</u>

**Contract Revenue Bonds
Total**

Ending Date	Principal Amount	Coupon Rate	Interest Amount	Debt Service	Annual Debt Service
7/1/2017			105,222	105,222	
1/1/2018	245,000	4.560%	105,222	350,222	
6/30/2018					455,444
7/1/2018			99,636	99,636	
1/1/2019	255,000	4.560%	99,636	354,636	
6/30/2019					454,272
7/1/2019			93,822	93,822	
1/1/2020	270,000	4.560%	93,822	363,822	
6/30/2020					457,644
7/1/2020			87,666	87,666	
1/1/2021	280,000	4.560%	87,666	367,666	
6/30/2021					455,332
7/1/2021			81,282	81,282	
1/1/2022	295,000	4.560%	81,282	376,282	
6/30/2022					457,564
7/1/2022			74,556	74,556	
1/1/2023	305,000	4.560%	74,556	379,556	
6/30/2023					454,112
7/1/2023			67,602	67,602	
1/1/2024	320,000	4.560%	67,602	387,602	
6/30/2024					455,204
7/1/2024			60,306	60,306	
1/1/2025	330,000	4.560%	60,306	390,306	
6/30/2025					450,612
7/1/2025			52,782	52,782	
1/1/2026	340,000	4.560%	52,782	392,782	
6/30/2026					445,564
7/1/2026			45,030	45,030	
1/1/2027	360,000	4.560%	45,030	405,030	
6/30/2027					450,060
7/1/2027			36,822	36,822	
1/1/2028	380,000	4.560%	36,822	416,822	
6/30/2028					453,644
7/1/2028			28,158	28,158	
1/1/2029	395,000	4.560%	28,158	423,158	
6/30/2029					451,316
7/1/2029			19,152	19,152	
1/1/2030	410,000	4.560%	19,152	429,152	
6/30/2030					448,304
7/1/2030			9,804	9,804	
1/1/2031	430,000	4.560%	9,804	439,804	
6/30/2031	-		-	-	449,608
TOTALS	<u>4,615,000</u>		<u>1,723,680</u>	<u>6,338,680</u>	<u>6,338,680</u>

**Contract Revenue Bonds –Alamo Community College District First Responders
Series 2010**

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
7/1/2017			17,442	17,442	
1/1/2018	40,000	4.560%	17,442	57,442	
6/30/2018					74,884
7/1/2018			16,530	16,530	
1/1/2019	40,000	4.560%	16,530	56,530	
6/30/2019					73,060
7/1/2019			15,618	15,618	
1/1/2020	45,000	4.560%	15,618	60,618	
6/30/2020					76,236
7/1/2020			14,592	14,592	
1/1/2021	45,000	4.560%	14,592	59,592	
6/30/2021					74,184
7/1/2021			13,566	13,566	
1/1/2022	50,000	4.560%	13,566	63,566	
6/30/2022					77,132
7/1/2022			12,426	12,426	
0101/2023	50,000	4.560%	12,426	62,426	
6/30/2023					74,852
07/01/2023			11,286	11,286	
1/1/2024	55,000	4.560%	11,286	66,286	
6/30/2024					77,572
7/1/2024			10,032	10,032	
1/1/2025	55,000	4.560%	10,032	65,032	
6/30/2025					75,064
7/1/2025			8,778	8,778	
1/1/2006	55,000	4.560%	8,778	63,778	
6/30/2006					72,556
7/1/2026			7,524	7,524	
1/1/2027	60,000	4.560%	7,524	67,524	
6/30/2027					75,048
7/1/2027			6,156	6,156	
0101/2028	65,000	4.560%	6,156	71,156	
6/30/2028					77,312
7/1/2028			4,674	4,674	
1/1/2029	65,000	4.560%	4,674	69,674	
6/30/2029					74,348
7/1/2029			3,192	3,192	
1/1/2030	70,000	4.560%	3,192	73,192	
6/30/2030					76,384
7/1/2030			1,596	1,596	
1/1/2031	70,000	4.560%	1,596	71,596	
6/30/2031					73,192
TOTALS	<u>765,000</u>		<u>286,824</u>	<u>1,051,824</u>	<u>1,051,824</u>

**Contract Revenue Bonds – Universal City Reuse Project
Series 2010**

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
7/1/2017			46,512	46,512	
1/1/2018	110,000	4.560%	46,512	156,512	
6/30/2018					203,024
7/1/2018			44,004	44,004	
1/1/2019	115,000	4.560%	44,004	159,004	
6/30/2019					203,008
7/1/2019			41,382	41,382	
1/1/2020	120,000	4.560%	41,382	161,382	
6/30/2020					202,764
7/1/2020			38,646	38,646	
1/1/2021	125,000	4.560%	38,646	163,646	
6/30/2021					202,292
7/1/2021			35,796	35,796	
1/1/2022	130,000	4.560%	35,796	165,796	
6/30/2022					201,592
7/1/2022			32,832	32,832	
0101/2023	135,000	4.560%	32,832	167,832	
6/30/2023					200,664
07/01/2023			29,754	29,754	
1/1/2024	140,000	4.560%	29,754	169,754	
6/30/2024					199,508
7/1/2024			26,562	26,562	
1/1/2025	145,000	4.560%	26,562	171,562	
6/30/2025					198,124
7/1/2025			23,256	23,256	
1/1/2006	150,000	4.560%	23,256	173,256	
6/30/2006					196,512
7/1/2026			19,836	19,836	
1/1/2027	160,000	4.560%	19,836	179,836	
6/30/2027					199,672
7/1/2027			16,188	16,188	
0101/2028	165,000	4.560%	16,188	181,188	
6/30/2028					197,376
7/1/2028			12,426	12,426	
1/1/2029	175,000	4.560%	12,426	187,426	
6/30/2029					199,852
7/1/2029			8,436	8,436	
1/1/2030	180,000	4.560%	8,436	188,436	
6/30/2030					196,872
7/1/2030			4,332	4,332	
1/1/2031	190,000	4.560%	4,332	194,332	
6/30/2031					198,664
TOTALS	<u>2,040,000</u>		<u>759,924</u>	<u>2,799,924</u>	<u>2,799,924</u>

**Contract Revenue Bonds – Alamo Community College District Reuse Project
Series 2010**

Period Ending	Principal	Coupon	Interest	Debt Service	Annual Debt Service
7/1/2017			41,268	41,268	
1/1/2018	95,000	4.560%	41,268	136,268	
6/30/2018					177,536
7/1/2018			39,102	39,102	
1/1/2019	100,000	4.560%	39,102	139,102	
6/30/2019					178,204
7/1/2019			36,822	36,822	
1/1/2020	105,000	4.560%	36,822	141,822	
6/30/2020					178,644
7/1/2020			34,428	34,428	
1/1/2021	110,000	4.560%	34,428	144,428	
6/30/2021					178,856
7/1/2021			31,920	31,920	
1/1/2022	115,000	4.560%	31,920	146,920	
6/30/2022					178,840
7/1/2022			29,298	29,298	
01/01/2023	120,000	4.560%	29,298	149,298	
6/30/2023					178,596
07/01/2023			26,562	26,562	
1/1/2024	125,000	4.560%	26,562	151,562	
6/30/2024					178,124
7/1/2024			23,712	23,712	
1/1/2025	130,000	4.560%	23,712	153,712	
6/30/2025					177,424
7/1/2025			20,748	20,748	
1/1/2006	135,000	4.560%	20,748	155,748	
6/30/2006					176,496
7/1/2026			17,670	17,670	
1/1/2027	140,000	4.560%	17,670	157,670	
6/30/2027					175,340
7/1/2027			14,478	14,478	
1/1/2028	150,000	4.560%	14,478	164,478	
6/30/2028					178,956
7/1/2028			11,058	11,058	
1/1/2029	155,000	4.560%	11,058	166,058	
6/30/2029					177,116
7/1/2029			7,524	7,524	
1/1/2030	160,000	4.560%	7,524	167,524	
6/30/2030					175,048
7/1/2030			3,876	3,876	
1/1/2031	170,000	4.560%	3,876	173,876	
6/30/2031					177,752
TOTALS	<u>1,810,000</u>		<u>676,932</u>	<u>2,486,932</u>	<u>2,486,932</u>

San Antonio River Authority
Insurance Fund
Fiscal Year Ending June 30, 2018

Fund: 90

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 1,441,483	\$ 1,421,329	\$ 1,566,106	\$ 1,493,573
Total Beginning Balance	\$ 1,441,483	\$ 1,421,329	\$ 1,566,106	\$ 1,493,573
Revenue				
Investment Earnings	\$ 4,611	\$ 10,000	\$ 10,390	\$ 12,000
Miscellaneous	24,500	24,000	11,808	15,000
Premiums	2,514,333	2,417,654	2,616,061	3,306,547
Transfers	600,000	690,000	690,000	-
Total Revenue	\$ 3,143,444	\$ 3,141,654	\$ 3,328,259	\$ 3,333,547
TOTAL AVAILABLE FUNDS	\$ 4,584,927	\$ 4,562,983	\$ 4,894,365	\$ 4,827,120
APPROPRIATIONS				
Operating Expenditures	\$ 3,018,821	\$ 3,151,317	\$ 3,400,793	\$ 3,574,072
TOTAL OPERATING APPROPRIATIONS	\$ 3,018,821	\$ 3,151,317	\$ 3,400,793	\$ 3,574,072
Unrestricted Ending Fund Balance	\$ 1,566,106	\$ 1,411,666	\$ 1,493,573	\$ 1,253,047
TOTAL APPROPRIATIONS	\$ 4,584,927	\$ 4,562,983	\$ 4,894,365	\$ 4,827,120

Insurance Fund

Fund 90

Description

The San Antonio River Authority provides medical, dental, vision and other “cafeteria plan” benefits to its employees. The medical benefits program is managed through a self insurance program. For the self insurance program, the River Authority pays a per employee per month premium into this Insurance Fund from all funds that have employee salaries budgeted, including the General and utility funds. Employees also pay premiums for insurance for themselves and their dependents. The fund then uses that revenue to pay actual claims costs, administrative expenses and stop/loss insurance premiums. Stop/loss provides the River Authority with outside insurance for large claims. Once a claim reaches the stop/loss level, currently \$50,000, the River Authority’s Insurance Fund no longer pays the claim costs; the stop/loss insurer pays the additional claim costs. This has proven a cost-effective means for the River Authority to control medical insurance expenses.

In plan year 2016 and continuing in plan year 2017, the River Authority moved to an outside insurer for dental and vision insurance as this was the most cost effective way to continue to provide quality benefits to employees. The cost of this coverage shifted from claims costs to administrative and premium costs.

The Insurance Fund also helps pay the cost of the River Authority’s wellness program which is designed to further promote employees’ health and well-being. The program has various components that encourage employees to monitor their health and to develop a more active lifestyle.

<i>Appropriations:</i>	<u>FY 2015/16</u> <u>Actual</u>	<u>FY 2016/17</u> <u>Estimate</u>	<u>FY 2017/18</u> <u>Budget</u>
Claims Costs	\$2,063,095	\$2,574,593	\$2,703,322
Administrative and Premium Costs	955,726	826,200	870,750
<i>Total Appropriations</i>	<i>\$3,018,821</i>	<i>\$3,400,793</i>	<i>\$3,574,072</i>

Program Justification and Fiscal Analysis

The FY 2017/18 Budget for the Insurance Fund pays all administrative, premiums, claims and stop/loss insurance costs as well as some costs associated with the River Authority’s wellness program. The FY 2017/18 Budget increases in comparison to the FY 2016/17 estimates as medical services costs are expected to increase because of inflation in the cost of these services. The FY 2017/18 Budget incorporates a net increase in claims costs of five percent. The medical service industry’s costs for services is projected to increase, on average ten percent. However, the River Authority will continue to make plan design and/or employee premium changes in plan year 2018 that are expected to reduce the cost of claims to the fund by five percent. Plan design changes

were accomplished in 2016 and 2017. Administrative costs are also expected to increase five percent; this increase is included in the FY 2017/18 Budget.

The financial stability of the Insurance Fund has been negatively impacted by increase in claims costs that have not, over the last several years, had matching increases in premium contributions from the River Authority and employees. Although employee premiums have increased each of the last two plan years, the River Authority has not increased its per employee premium contribution in ten years. However, in FY 2015/16 and again in FY 2016/17, the River Authority made one-time contributions into the fund of \$600,000 and \$690,000 (respectively) to ensure the financial health of the program and fund. In FY 2017/18, the River Authority is increasing its per employee contribution so that the funding through premiums will about match these annual one-time contributions. This action, in effect, institutionalizes the budgeted contribution by the River Authority for employee medical benefits by building it into the premium.

The River Authority has been implementing a multi-year strategy for managing the cost of medical benefits for employees that includes various components and has several objectives. These objectives are: 1) maintaining the stability of the fund; 2) mitigating the potential future costs from provisions in the affordable care act and overall medical services cost increases; and 3) recognizing the financial impact to employees and phasing this in over time. 2018 will be the third year of the strategy.

Plan design changes and increased employees contributions through premiums will most likely occur again in plan year 2018. These changes could address deductibles, maximum out-of-pocket expenses and other cost sharing components of the plans. These are the types of changes already made for plan years 2016 and 2017. In 2016, employee premiums for medical insurance also increased and, for the first time, employees paid a premium for their employee only coverage - \$10 per pay period. Premiums increased again in 2017 and, most likely, will increase again in 2018 along with plan design changes. The FY 2017/18 Budget does not include another one-time transfer of General Fund funds into the Insurance Fund.

Budget Order

San Antonio River Authority Fiscal Year 2017/18 Budget

For the period July 1, 2017 through June 30, 2018

Approval of the Fiscal Year (FY) 2017/18 Budget

The Board of Directors of the San Antonio River Authority approves the FY 2017/18 Budget as submitted with the amendments included in the June 12, 2017 memorandum “Recommended Changes to the FY 2017/18 Budget” included here as Attachment 1.

Authorized Positions and Salaries

The positions listed in the FY 2017/18 Budget document under each department are the authorized positions for FY 2017/18. These lists include part time positions and limited term employee positions but not temporary positions. Temporary positions are approved during the year at the General Manager’s discretion and depend on available budgeted funds. Changes to the total number of authorized positions – additions or deletions – must be approved by the Board of Directors; however, changes to position titles, reclassifications, reassignments and re-grades are approved by the General Manager. All new positions in the FY 2017/18 Budget are authorized effective July 1, 2017 unless specifically stipulated otherwise.

General Fund, Utility Operating Funds, Special Revenue Funds, Debt Service Fund, and Insurance Fund (as listed in the designated sections of the FY 2017/18 Budget)

The FY 2017/18 Budget, as adopted by the Board of Directors, controls expenditures by fund and fiscal year for the types of Funds listed above. Some Special Revenue Funds are controlled by project and project life, not fiscal year, and are described below. The Board of Directors must approve any budget adjustment that increases the total appropriation in a Fund for all Funds listed above, including those controlled by project and project life. The Board of Directors must also approve any transfer from any reserve account for all Funds as well as allocation of budget to a project not approved in the FY 2017/18 Budget.

The Board of Directors has granted limited flexibility to River Authority staff to move budget appropriations within Funds to respond to changing project implementation schedules and expenditure levels. Through this process, funds can be moved between *approved* projects, programs and activities to ensure that limited annual funding resources continue to efficiently and effectively advance the initiatives of the River Authority. Under this authority, the General Manager must approve any transfer of funds between departments and/or approved projects within a Fund. The Director of Support Services approves transfers within a department budget and/or approved project that would move funds between the following categories.

- Personnel Expenditures
- Operating Expenditures
- Capital Expenditures
- Transfers
- Debt Service
- Contingency

Budget is allocated into individual line items in each department and those budget line item allocations are part of the FY 2017/18 Budget. Departments have flexibility in expensing these funds within each of the first five categories listed above but not allocations identified as contingency. As long as the total appropriation (including efforts) for the categories of expenses listed above (e.g. Personnel Expenditures, Operating Expenditures) is not exceeded, one or more line items within the category (e.g. health insurance) may exceed its budget allocation.

SPECIAL REVENUE FUNDS' EXCEPTIONS: In the Grants Fund, Park Resources Development Fund, Texas Water Development Board Fund, the Other Revenues Fund, and the San Antonio Capital Improvements Project Land Sales Fund, appropriations are controlled at the project level and project life, not by fiscal year. As the Board accepts grants, as donations are received from outside sources, and as projects are approved, those proceeds are appropriated and available to departments to expend for identified River Authority purposes and needs. Project funding can be moved from one approved project to another during the fiscal year at the General Manager or authorized designee's discretion. However, funding for a project not approved by the Board of Directors in the FY 2017/18 Adopted Budget must be approved by the Board of Directors.

Capital Project Funds including the San Antonio River Authority (SARA) Projects Fund (as listed in the designated section of the FY 2017/18 Budget document)

Capital project and other project funds are controlled at the project level. Expenditures within the individual projects may span fiscal years. However, budgetary control is not exercised by fiscal year; it is by the total project cost and total project expenditures. Project funding can be moved from one approved project to another during the fiscal year at the General Manager or authorized designee's discretion. However, funding for a project not approved by the Board of Directors in the FY 2017/18 Adopted Budget must be approved by the Board of Directors.



June 12, 2017

To: San Antonio River Authority Board of Directors

From: Deborah Korinchock

RE: Recommended Changes to the FY 2017/18 Budget

The Fiscal Year (FY) 2017/18 Proposed Budget, as submitted to the Board of Directors on May 17, 2017, requires some changes prior to adoption. These changes reflect updated information received/identified after development of the proposed budget document. Staff recommends adopting the Proposed Budget including the changes described below.

1. City of San Antonio Capital Improvements Project Fund

The FY 2017/18 Proposed Budget for this fund includes an expenditure allocation of \$50,000 for the City of San Antonio Post Stormwater Construction effort along with the associated revenue of \$50,000. This activity is mainly an operations/maintenance activity as it provides stormwater monitoring for the City of San Antonio’s improvements on Hausman Road that relate to best management practices for stormwater management. The effort is supported mainly by staff in the Environmental Sciences Department and funding for the San Antonio River Authority’s (River Authority) contribution is also funded in the General Fund. Therefore, staff recommends moving the revenue from the City of San Antonio to the General Fund and removing the project funding from this City of San Antonio Capital Improvement Project Fund. The revised fund balance for this fund is included below.

The Broadway Underpass project also is recommended to increase by \$1,411,376 for a total project budget of \$1,506,376. This reflects full funding for completion of construction of the project. The project is funded by the City of San Antonio; the River Authority is managing the project.

The General Fund Intergovernmental Revenue is recommended to be increased \$50,000. The City of San Antonio Capital Improvement Project Fund intergovernmental Revenue increases by a net amount of \$1,361,376 with the addition \$1,411,376 for the Broadway Underpass project and reduction of \$50,000 for the City of San Antonio Post Stormwater Construction project.

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2. *Downstream Capital Improvements Projects Fund*

The FY 2017/18 Proposed Budget includes a project budget of \$1,189,534 for the Escondido Creek Parkway project. On Tuesday, May 9, 2017, the City of Kenedy approved an allocation of \$500,000 from hotel/motel tax revenue to provide additional funding for this project. In addition, the San Antonio River Foundation will facilitate funding \$100,000 toward this project. Therefore, the budget for this project in the Downstream Capital Improvements Projects Fund needs to increase by a total of \$600,000 with an equal increase in intergovernmental revenue. The revised fund balance for this fund is included below.

3. *Bexar County Westside Creeks Restoration Projects Fund*

The FY 2017/18 Proposed Budget includes a total project budget of \$71,197,259 for the Westside Creeks – San Pedro Creek project. On May 17, 2017, the River Authority Board of Directors approved a budget amendment for this project in the FY 2016/17 Adopted Budget. The proposed change to the FY 2017/18 Budget incorporates the same \$26,359,781 budget amendment for this project which supports the execution of Amendment Two to the Bexar County Cooperative Agreement. This funding is comprised of \$18,344,974 in funding for Work Package 10 which includes bond costs associated with packages, additional Construction Administration costs, and art elements; \$8,009,807 authorized funding for project insurance premium, mobilization and water management expenses associated with Work Packages One, Two, and Four; and a \$5,000 stipend for the additional finalist for the Tricentennial artwork. The total project budget is now \$97,557,040.

4. *San Antonio Capital Improvements Project Land Sales Fund*

The FY 2017/18 Proposed Budget includes an appropriation of \$165,000 for the Westside Creeks San Pedro Creek Project. These funds will be used to support creative services and communication efforts for the project as well as facilitation of public meetings services and various public relations initiatives including website development. Since the proposed budget was developed, staff has identified the need for additional website and “app” development to enhance the visitors’ experience on the redeveloped San Pedro Creek. An additional \$270,000 is proposed to be added to this project in the Land Sales Fund to support this work. The total project budget in this fund is now \$435,000.

5. *Bexar County San Antonio River Improvements Flood Tax Fund*

The FY 2017/18 Proposed Budget includes a total budget of \$155,650,311 for the Mission Reach project. The River Authority has recently been notified that the U.S. Army Corp of Engineers has approved an additional \$10 million in reimbursement for this project. To enable payment of these funds to Bexar County, the original funder of the project, the budget is

recognizing the revenue and authorizing the River Authority's expenditure through this action. The total project budget is now \$165,650,311.

6. *San Antonio River Authority Project Fund*

The San Antonio River Authority Projects Fund FY 2017/18 Budget includes \$500,000 for the Facilities Acquisition/Improvements Project. This project is intended to fund various activities in FY 2017/18 including improvements to the heating and cooling systems at the Guenther and Euclid facilities as well as cost related to the commercial real estate/development services. Since the budget was proposed, the opportunity to purchase property to expand Branch River Park is being pursued. As a result, an additional \$100,000 in funding is proposed for this project. An equal reduction in the Unrestricted Reserve (\$100,000) will also occur.

San Antonio River Authority
 City of San Antonio Capital Improvements Project Fund
 Fiscal Year Ending June 30, 2018

Fund: 11

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
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Available Funds

Intergovernmental Revenue	\$ 24,354,498	\$ 18,407,655	\$ 369,063	\$ 5,577,780
Investment Income	317,332	314,289	1,043	2,000
Transfer	200,000	-	-	200,000
TOTAL AVAILABLE FUNDS	\$ 24,871,830	\$ 18,721,944	\$ 370,106	\$ 5,779,780

APPROPRIATIONS

Projects

Broadway Underpass	1,506,376	-	1,222	1,505,154
City of San Antonio Outfalls Project	179,957	179,957	-	-
City of San Antonio Drainage Master Plan	1,935,121	1,746,069	189,052	-
Flood Gate 4 Replacement	2,049,995	49,995	250	1,999,750
Edwards Aquifer Protection Program	476,901	33,307	58,718	384,876
City of San Antonio Post Stormwater Construction	-	-	-	-
Concepcion Creek Outfall Project	1,690,000	-	-	1,690,000
Mission Reach	6,513,771	6,513,771	-	-
City of San Antonio Trails	316,232	316,232	-	-
Museum Reach - Park Segment	10,003,477	9,882,613	120,864	-
Transfer	200,000	-	-	200,000

Total Project Expenditures	\$ 24,871,830	\$ 18,721,944	\$ 370,106	\$ 5,779,780
TOTAL APPROPRIATIONS	\$ 24,871,830	\$ 18,721,944	\$ 370,106	\$ 5,779,780

San Antonio River Authority
 Downstream Capital Improvements Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 58

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487
TOTAL AVAILABLE FUNDS	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487

APPROPRIATIONS

Projects

Escondido Creek Parkway	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487
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Total Project Expenditures	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487
TOTAL APPROPRIATIONS	\$ 1,789,534	\$ 220,749	\$ 4,298	\$ 1,564,487

San Antonio River Authority
 Bexar County Westside Creeks Restoration Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 54

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668
TOTAL AVAILABLE FUNDS	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668

APPROPRIATIONS

Projects

Westside Creeks - Elmendorf Lake Park	\$ 7,000,000	\$ 6,673,287	\$ 299,697	\$ 27,016
Westside Creeks - San Pedro Creek	97,557,040	15,102,758	12,270,630	70,183,652

Total Project Expenditures	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668
TOTAL APPROPRIATIONS	\$ 104,557,040	\$ 21,776,045	\$ 12,570,327	\$ 70,210,668

San Antonio River Authority
San Antonio CIP Land Sales Fund
Fiscal Year Ending June 30, 2018

Fund: 22

Available Funds	FY 2015/16 Actual	FY 2016/17 Amended Budget	FY 2016/17 Estimate	FY 2017/18 Budget
Beginning Balance				
Undesignated Funds	\$ 357,948	\$ 379,229	\$ 164,166	\$ 444,113
Restricted Reserve	-	-	-	75,000
Total Beginning Balance	\$ 357,948	\$ 379,229	\$ 164,166	\$ 519,113
Revenue				
Investment Earnings	\$ 844	\$ 400	\$ 840	\$ 840
Charges for Services	54,215	55,520	588,618	55,100
Total Revenue	\$ 55,059	\$ 55,920	\$ 589,458	\$ 55,940
TOTAL AVAILABLE FUNDS	\$ 413,007	\$ 435,149	\$ 753,624	\$ 575,053
APPROPRIATIONS				
Westside Creeks San Pedro Creek Project	\$ 248,841	\$ 267,261	\$ 234,511	\$ 435,000
TOTAL OPERATING APPROPRIATIONS	\$ 248,841	\$ 267,261	\$ 234,511	\$ 435,000
Unrestricted Ending Fund Balance	164,166	167,888	444,113	65,053
Restricted Reserve	-	-	75,000	75,000
TOTAL APPROPRIATIONS	\$ 413,007	\$ 435,149	\$ 753,624	\$ 575,053

San Antonio River Authority
 Bexar County San Antonio River Improvements Flood Tax Fund
 Fiscal Year Ending June 30, 2018

Fund: 51

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				

Available Funds

Intergovernmental Revenue	\$ 169,529,870	\$ 158,029,833	\$ 551,337	\$ 10,948,700
Investment Income	14,006	-	9,006	5,000
Transfers	48,121	-	48,121	-
TOTAL AVAILABLE FUNDS	\$ 169,591,997	\$ 158,029,833	\$ 608,464	\$ 10,953,700

APPROPRIATIONS

Projects

Museum Reach - Park Segment	\$ 3,893,565	\$ 3,320,581	\$ 410,604	\$ 162,380
Museum Reach - Urban Segment			-	-
Mission Reach	155,650,311	154,709,252	149,739	791,320
Bexar County Reimbursement	10,048,121	-	48,121	10,000,000

Total Project Expenditures	\$ 169,591,997	\$ 158,029,833	\$ 608,464	\$ 10,953,700
TOTAL APPROPRIATIONS	\$ 169,591,997	\$ 158,029,833	\$ 608,464	\$ 10,953,700

San Antonio River Authority
 SARA Projects Fund
 Fiscal Year Ending June 30, 2018

Fund: 04

APPROPRIATIONS	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
Available Funds				
Transfers - General Fund	\$ 18,184,001	\$ 10,746,025	\$ 4,292,144	3,145,832
Intergovernmental Revenue	38,256	38,256	-	-
Debt Proceeds	1,200,000	-	1,200,000	-
TOTAL AVAILABLE FUNDS	\$ 19,422,257	\$ 10,784,281	\$ 5,492,144	\$ 3,145,832

APPROPRIATIONS

Projects

Active Ongoing

Basin Assessment Mapping and Analysis Tool	\$ 55,500	\$ -	\$ -	\$ 55,500
Bexar County LiDAR Collection	178,000	-	27,407	150,593
BRWM Stream Mitigation Bank	260,000	-	83,528	176,472
Cibolo Creek Watershed Master Plan	748,182	47,784	67,053	633,345
Clean Rivers Program 2015 Grant	76,000	19,000	34,367	22,633
Cooperating Technical Partners (CTP) Development	85,000	8,941	16,571	59,488
Dam Operations Center	396,156	108,208	116,308	171,640
Downstream Flood Inundation Library	150,000	-	-	150,000
Edwards Aquifer Watershed Protection	93,744	48,663	-	45,081
Environmental Monitoring	85,000	52,099	24,957	7,944
Escondido Creek Parkway	30,000	-	-	30,000
Feral Hog Management	250,000	91,638	75,000	83,362
FloodWorks Website Enhancement	85,350	22,740	-	62,610
Graytown Park (Previously County Road (CR) 125)	125,000	109,107	9,677	6,216
Guenther/Euclid Stormwater Retrofit	185,424	1,177	157,773	26,474
Holistic Freshwater Mussels	33,072	21,506	8,111	3,455
John Helton SA River Nature Park	820,000	210,688	353,781	255,531
Laboratory Management Software Replacement	334,000	-	3,108	330,892
Mission Reach Avian Study	192,000	54,528	29,360	108,112
Mission Reach Erosion Repairs	1,015,000	-	-	1,015,000
Nature Park Signage Development	50,000	1,507	1,997	46,496
Olmos Creek Aquatic Ecosystem Restoration	97,000	-	1,260	95,740
Resource Conservation Partnership Program	250,000	-	302	249,698
River Road Stream Restoration	434,000	-	-	434,000
San Antonio Bay EDYS Model Development	389,000	-	175,079	213,921
Stormwater Training and Tools	165,000	96,344	10,907	57,749
Trash and Floatables Mitigation	773,525	202,103	483,722	87,700
Trash and Floatables Mitigation - Olmos Creek	20,000	-	-	20,000
Tributary Modeling	320,000	-	43,515	276,485
Trueheart Park	85,000	-	10,000	75,000
USGS Baseline Study of Oil and Gas Production Constituents Phase II Project	244,200	115,950	47,300	80,950
Urban Reach Operations Center	1,200,000	1,109,545	6,682	83,773
USGS LSAR Groundwater/Surface Water Modeling	111,000	65,250	27,750	18,000
UTSA Sediment Source Mobility	110,000	17,753	37,055	55,192
Water Quality Data Analytics	80,000	55,499	4,000	20,501
Watershed Master Plans Integration	50,000	-	-	50,000
Watershed Wise River Discovery	267,500	-	123	267,377
Watershed Wise Rebate Program	1,370,000	-	132,221	1,237,779
Watershed Wise School Grant	175,000	53,604	33,400	87,996
Westside Creeks - Linear Creek Trails and Elmendorf Park	75,000	-	-	75,000
Westside Creeks - San Pedro Creek	20,000	-	20,000	-

San Antonio River Authority
SARA Projects Fund
Fiscal Year Ending June 30, 2018

Fund: 04

	Budgeted Project Revenue/ Expenditures	Activity As of 06/30/2016	FY 2016/17 Activity As of 03/31/2017	Remaining Available Funds
APPROPRIATIONS				
New Authorized Projects				
Clean Rivers Program 2017/SARA Stream Monitoring	23,000	-	-	23,000
Digital Data and Model Repository Redevelopment	140,000	-	-	140,000
Facilities Acquisition/Improvements Project	600,000	-	-	600,000
Impervious Cover Mitigation	270,000	-	13,518	256,482
Museum Reach Electrical Infrastructure Upgrade	360,000	-	-	360,000
New Authorized Projects - Unfunded				
Brooks City Base - Mission Reach Linkage	-	-	-	-
Mann's Crossing Park on the Medina River	-	-	-	-
River Crossing Park River Access Reconstruction	-	-	-	-
Stone Oak Park Dam Spillway Repair	-	-	-	-
Stormwater Best Management Practices Verification	-	-	-	-
Closed Projects				
Automated Storm Water Project	72,280	72,280	-	-
Bacterial Source Tracking	105,222	100,637	4,585	-
ICM System Pilot	125,000	120,952	4,048	-
Urban Reach E coli Monitoring	19,020	19,020	-	-
USGS Huisache Brush Management	15,000	11,250	3,750	-
USGS Westside Creeks Sediment Study	7,000	5,250	1,750	-
Transfer	200,000	-	-	200,000
Total Project Expenditures	\$ 13,420,175	\$ 2,843,023	\$ 2,069,965	\$ 8,507,187
Unrestricted Reserve	6,002,082	-	-	6,002,082
TOTAL APPROPRIATIONS	\$ 19,422,257	\$ 2,843,023	\$ 2,069,965	\$ 14,509,269

**San Antonio River Authority
Note Receivables**

San Antonio River Authority Note Receivables and General Fund Obligations/Revenue

	<u>Original Note</u>	<u>Projected Debt Service Remaining 6- 30-17</u>	<u>FY 2017/2018 Budgeted Payment Due</u>
<u>General Fund</u>			
Goliad County Water Supply Company	\$ 300,472	\$ 259,191	\$ 11,795
Universal City	448,219	78,260	78,260
Wildlake Dam Improvements	75,000	-	-
Wildlake Dam O&M	100,000	20,000	20,000
San Antonio Alternative Housing Corporation/Rosedale TIRZ	292,713	78,539	34,882
	1,216,404	435,990	144,937
<u>SARA Wastewater Fund</u>			
La Vernia	600,000	393,139	46,046
Goliad County Water Supply Company	170,998	129,717	11,795
Totals	\$ 770,998	\$ 522,856	\$ 57,841
<u>General Fund Obligations</u>			
Euclid (Reserves)	3,576,202	2,214,459	-
Mission Reach Operation Center (Public Facility Corporation)	3,100,000	2,714,000	181,783
Totals	\$ 6,676,202	\$ 4,928,459	\$ 181,783
<u>General Fund Revenues</u>			
	<u>Total 5 Year Lease</u>	<u>Projected FY 2016/2017 Lease Payments</u>	<u>Projected FY 2017/2018 Lease Payments</u>
Euclid (San Antonio Gastroenterology Associates lease)	\$ 223,530	\$ 44,706	\$ 44,706

Description	Pay Grade	FY 2015/16	FY 2016/17	FY 2017/18
Board of Directors	ELEC	12	12	12
Executive Offices				
General Manager	151	1	1	1
Assistant General Manager	145	1	1	1
Director of Government and Public Affairs	140	0	0	1
Director of Human Resources	140	1	1	1
Director of Legal Services	140	1	1	1
Director of Operations	140	1	1	1
Director of Support Services	140	1	1	1
Director of Technical Services	140	1	1	1
Public Art Curator	126	0	1	1
Executive Offices Administrator	122	1	1	1
Executive Assistant	115	2	2	2
Document Control Coordinator	111	0	0	1
<i>Total Executive Offices</i>		<i>10</i>	<i>11</i>	<i>13</i>
Facilities				
Facilities and Maintenance Superintendent	124	0	0	0.5
Facilities Administrator	121	1	1	0
Electrician	120	0.5	0	0
Facilities Crewleader	112	0	0	1
Facilities Maintenance Technician II	110	0	1	1
Facilities Maintenance Technician I	109	2	1	2
Custodian - Part Time	103	3	3	2
<i>Total Facilities</i>		<i>6.5</i>	<i>6</i>	<i>6.5</i>
Finance				
Budget Services Manager	134	1	1	1
Accounting Manager	133	1	1	1
Procurement Manager	133	0	0	1
Senior Financial Accountant	126	0	1	1
Project and Planning Specialist	124	1	1	1
Budget Services Analyst	119	3	3	3
Purchasing Agent	119	1	1	0
Financial Accountant	117	1	1	0
Accounting Analyst	117	1	0	0
Accountant	113	0	0	1
Accounting Technician III	112	1	1	1
Budget Services Technician	112	1	1	1
Support Services Technician	112	0	1	1
Accounting Technician II	109	2	1	1
Intern	101	1	1	1
<i>Total Finance</i>		<i>14</i>	<i>14</i>	<i>14</i>

Description	Pay Grade	FY 2015/16	FY 2016/17	FY 2017/18
Human Resources				
Human Resources Specialist	122	1	1	1
Human Resources/Safety Specialist	122	1	1	1
Culture and Compensation Specialist	122	0	0	1
Internal Communications Coordinator	118	1	1	0
Human Resources Coordinator	112	1	1	1
Human Resources Assistant	109	0	0	1
Administrative Technician	106	1	1	0
Intern	101	1	1	1
<i>Total Human Resources</i>		6	6	6
Information Technology				
Information Technology Manager	134	1	1	1
Business Applications Administrator	124	0	1	1
Database/Development Administrator	124	0	1	1
GIS Administrator	124	0	1	1
Infrastructure Administrator	124	0	1	1
Network Administrator	123	1	0	0
Development/Database Specialist II	123	2	1	1
Development Support Specialist I	122	0	1	1
Senior GIS Developer	122	1	0	0
Systems Administrator	122	1	0	0
Systems and Cybersecurity Specialist I	122	0	1	1
Web Administrator	122	1	0	0
Web Developer	121	1	0	0
GIS Analyst II	119	0	1	1
GIS Analyst I	118	3	2	2
IT Support Specialist I	118	0	2	2
Computer Technician	115	1	0	0
GIS Technician I	114	0	0	1
Business Applications (LTE)	104	0	0	1
Development and Database (LTE)	104	0	0	1
Geographic Information Systems (LTE)	104	0	0	1
Intern	101	0	1	1
<i>Total Information Technology</i>		12	14	18

Description	Pay Grade	FY 2015/16	FY 2016/17	FY 2017/18
Intergovernmental and Community Relations				
Manager - External Communications	134	1	1	0
Intergovernmental Specialist	126	1	1	1
Community Relations Specialist	124	1	1	1
Education Specialist	124	1	1	1
Web Developer (LTE)	122	0	0	1
Art Direction Specialist	121	1	1	1
Education Coordinator	117	1	1	1
Community Relations Coordinator	117	2	3	3
Intergovernmental Coordinator	117	4	3	3
IGCR Technician	112	1	1	1
Part-Time Education Coordinator	103	0	1	1
Intern	101	2	1	1
<i>Total Intergovernmental & Community Relations</i>		<i>15</i>	<i>15</i>	<i>15</i>
Environmental Sciences				
Environmental Sciences Manager	135	1	1	1
Senior Laboratory and Data Management Scientist	129	1	1	1
Senior Quality Control and Monitoring Scientist	129	1	1	1
Senior Stormwater Supervisor	129	1	1	1
Landscape Architect	125	1	1	1
Stormwater Specialist	125	1	1	1
Sustainable Landscape Ecologist	125	0	1	1
Laboratory Supervisor	122	1	1	1
Quality Control/Data Management Supervisor	122	1	1	1
Stormwater Investigation Supervisor	122	0	1	1
Watershed Monitoring Supervisor	122	1	1	1
Senior Environmental Investigation Specialist	122	0	1	1
Environmental Investigation Specialist III	121	1	0	0
Environmental Data Specialist II	120	1	2	2
Quality Assurance Specialist II	120	0	1	1
Stormwater Analyst	120	1	1	1
Stormwater Supervisor	120	1	0	0
Environmental Investigation Specialist I	119	0	1	1
Senior Water Quality Scientist	119	0	2	2
Senior Aquatic Biologist	118	2	2	2
Water Quality Planner/Data Management	118	1	0	0
Water Quality Planner/Quality Assurance Officer	118	1	0	0
Water Quality Scientist II	118	6	3	3
Environmental Investigations Coordinator	117	1	0	0
Lab Services Coordinator II	117	1	1	1
Aquatic Biologist I	116	3	3	3
Stormwater Scientist I	116	1	1	1
Water Quality Scientist I	116	3	4	4
Administrative Assistant	109	1	1	1
Administrative Support - LTE	104	0	1	1
Water Quality Scientist - Part-Time	103	1	1	1
Michael Gonzalez Intern	102	0	1	1
ESD Intern	101	2	1	1
<i>Total Environmental Sciences</i>		<i>36</i>	<i>38</i>	<i>38</i>

Description	Pay Grade	FY 2015/16	FY 2016/17	FY 2017/18
Real Estate				
Real Estate Manager	133	1	1	1
Real Estate Representative III	121	2	2	2
Real Estate Representative I	117	1	1	1
Administrative Assistant	109	1	1	1
<i>Total Real Estate</i>		5	5	5
Watershed Engineering				
Watershed Engineering Manger	135	1	1	1
Senior Engineer	130	3	3	3
Senior Technical Engineer	129	1	1	2
Engineer	128	7	8	8
Project Manager	126	0	0	1
Reg Prof Land Surveyor Lead	124	1	1	1
Graduate Engineer	123	2	1	1
Engineer Tech Supervisor	122	1	1	1
Project Administrator	121	1	0	0
Engineering Technician Senior	119	5	5	5
Survey Party Chief	117	2	2	2
Engineering Technician	115	1	1	2
Administrative Coordinator	111	1	1	1
Construction Administration Coordinator - Part Time	103	0	1	1
Engineering Apprentice	103	1	1	1
Intern	101	1	0	0
<i>Total Watershed Engineering</i>		28	27	30
Watershed and Park Operations				
Watershed and Parks Operations Manager	135	1	1	1
Senior Superintendent Operations	126	0	0	1
Park and Dam Superintendent	124	0	0	1
Recreation Superintendent	124	1	1	1
Riparian Landscape Superintendent	124	1	1	1
Riparian Maintenance Superintendent	124	1	1	1
Park Supervisor	122	1	0	0
Natural Resource Management Specialist	119	1	1	1
Dam Foreman	117	2	2	2
Park Foreman	117	0	1	1
Park Program Coordinator	117	1	1	1
Recreation Event Coordinator	117	1	1	1
Riparian Landscape Foreman	117	2	2	2
Riparian Operations Foreman	117	2	2	3
Dam Crewleader II	113	0	1	1
Park Project Coordinator	113	1	1	1
Riparian Landscape Crewleader II	113	1	2	2
Riparian Operations Crewleader II	113	0	1	1
Dam Crewleader I	112	0	3	3
Park Crewleader I	112	0	1	1
Riparian Equipment Crewleader I	112	0	2	2
Riparian Landscape Crewleader I	112	0	2	2
Riparian Operations Crewleader I	112	0	1	2
WPO Crewman Senior	111	6	0	0

Description	Pay Grade	FY 2015/16	FY 2016/17	FY 2017/18
Lock and Dam Technician II	110	0	1	1
Riparian Crewleader	110	5	0	0
Riparian Equipment Technician II	110	0	1	1
Riparian Landscape Technician II	110	0	3	3
Riparian Operations Technician II	110	0	3	3
Administrative Assistant	109	1	1	1
Dam Technician I	109	0	2	2
Lock & Dam Technician II	109	0	3	3
Park Specialist	109	4	0	0
Park Technician I	109	0	6	6
Riparian Equipment Technician I	109	0	1	1
Riparian Landscape Technician I	109	0	17	17
Riparian Operations Technician I	109	0	4	4
Watershed Operations Crewman	109	4	0	0
Lock and Dam Operator	108	4	0	0
Riparian Field Technician	108	23	0	0
CNG Mechanic - Part-Time	104	1	1	1
<i>Total Watershed Operations</i>		<i>64</i>	<i>71</i>	<i>75</i>
Utilities				
Utilities Manager	135	1	1	1
Facilities and Maintenance Superintendent	124	1	1	0.5
Utilities Development Superintendent	124	1	1	1
Utilities Operations Superintendent	124	1	1	1
Assistant Maintenance Superintendent	120	0	0	1
Assistant WWTP Operations Superintendent	120	1	1	1
Electrician	120	0.5	1	1
Collections Systems Quality Control Supervisor	118	1	1	1
Community Assistance Operator	118	1	1	1
Operations Quality Control Supervisor	118	1	1	1
Collection System Foreman	117	2	2	2
Field Maintenance Foreman	117	1	1	0
Line Inspection Foreman	117	1	1	1
Operations Facility Foreman	117	2	2	2
Plant Maintenance Foreman	117	1	1	1
Shop Maintenance Foreman	117	1	1	1
GIS Technician III	116	1	1	1
Line Inspector III	116	0	1	1
CCTV Utilities Specialist	115	0	1	1
Equipment Operator Lead Specialist	115	1	1	1
Operations Lead Specialist	115	1	1	1
GIS Technician II	115	1	0	0
Utility Line Inspector II	115	2	0	0
GIS Technician I	114	0	1	0
Lead Lab Analyst	114	1	1	1
Operations Specialist III	114	3	3	3
Maintenance Specialist II	113	0	1	1
Operations Specialist II	113	0	2	2
Sludge Facility Operator	113	1	1	1
Collection System Specialist I	112	2	2	2
Equipment Specialist I	112	0	1	1

Description	Pay Grade	FY 2015/16	FY 2016/17	FY 2017/18
Maintenance Specialist I	112	2	2	2
Operations Specialist	112	3	0	0
Administrative Coordinator	111	1	1	1
Electrical Apprentice	111	1	0	0
Collection System Technician II	110	0	2	2
Operations Technician II	110	0	4	4
Administrative Assistant	109	1	1	1
Equipment Technician	109	2	2	2
Equipment Operator Technician	109	1	0	0
Maintenance Technician	109	1	4	4
Operations Technician	109	7	3	3
Utility Collection System technician	109	2	0	0
Utility Field Maintenance Technician	109	1	0	0
Utility Crewman	107	1	0	0
<i>Total Utilities</i>		53	53	52
Breakdown by Employment Type (headcount)				
Full time Employees		235	245	254
Limited term Employees		1	1	5
Part time Employees		13	14	13
Elected Officials		12	12	12
Total		261	272	284

Job Title	Department/Division	Pay Grade	Pay Grade Min Annual	Pay Grade Mid Annual	Pay Grade Max Annual
Intern	Multiple Departments	101	\$9.00 per Hour		\$9.00 per Hour
Mike Gonzales Internship	Environmental Sciences	102	\$12.50 per Hour		\$12.50 per Hour
Part-Time/LTE (General)	Multiple Departments	103	\$13.00 per Hour		\$13.00 per Hour
Part-Time/LTE (Specialized)	Multiple Departments	104	variable		variable
Accounting Technician II	Accounting	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Administrative Assistant	Multiple Departments	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Collection Systems Technician I	Utilities	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Equipment Technician I	Utilities	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Facilities Maintenance Technician I	Operations	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Lock & Dam Technician I	Watershed & Park Operations	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Maintenance Technician I	Utilities	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Operations Technician I	Utilities	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Park Technician I	Watershed & Park Operations	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Riparian Landscape Technician I	Watershed & Park Operations	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Watershed & Park Operations Technician I	Watershed & Park Operations	109	\$ 27,535.14	\$ 34,418.93	\$ 41,302.71
Collection Systems Technician II	Utilities	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Equipment Technician II	Utilities	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Facilities Maintenance Technician II	Operations	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Field Maintenance Technician II	Utilities	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Lock & Dam Technician II	Watershed & Park Operations	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Maintenance Technician II	Utilities	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Operations Technician II	Utilities	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Park Technician II	Watershed & Park Operations	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Riparian Landscape Technician II	Watershed & Park Operations	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Watershed & Park Operations Technician II	Watershed & Park Operations	110	\$ 28,911.90	\$ 36,139.87	\$ 43,367.85
Administrative Coordinator	Multiple Departments	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Document Control Coordinator	Executive Offices	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Collection Systems Technician III	Utilities	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Equipment Technician III	Utilities	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Facilities Maintenance Technician III	Operations	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Field Maintenance Technician III	Utilities	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Lock & Dam Technician III	Watershed & Park Operations	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Maintenance Technician III	Utilities	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Operations Technician III	Utilities	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Park Technician III	Watershed & Park Operations	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Riparian Landscape Technician III	Watershed & Park Operations	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Watershed & Park Operations Technician III	Watershed & Park Operations	111	\$ 30,357.49	\$ 37,946.87	\$ 45,536.24
Accounting Technician III	Accounting	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Budget Services Technician	Budget Services	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05

Job Title	Department/Division	Pay Grade	Pay Grade Min Annual	Pay Grade Mid Annual	Pay Grade Max Annual
Collection Systems Specialist I	Utilities	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Facilities Crewleader	Facilities	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Human Resources Coordinator	Human Resources	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
IGCR Technician	Intergovernmental & Community Relations	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Operations Specialist I	Utilities	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Park Crewleader I	Watershed & Park Operations	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Maintenance Specialist I	Utilities	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Riparian Crew Leader I	Watershed & Park Operations	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Support Services Technician	Accounting	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Watershed & Park Operations Crewleader I	Watershed & Park Operations	112	\$ 31,875.37	\$ 39,844.21	\$ 47,813.05
Accountant	Accounting	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Collection Systems Specialist II	Utilities	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Maintenance Specialist II	Utilities	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Operations Specialist II	Utilities	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Park Project Coordinator	Watershed & Park Operations	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Maintenance Specialist II	Utilities	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Riparian Crewleader II	Watershed & Park Operations	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Sludge Facility Operator	Utilities	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Utilities Line Inspector I	Utilities	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Watershed & Park Operations Crewleader II	Watershed & Park Operations	113	\$ 33,469.13	\$ 41,836.42	\$ 50,203.70
Collection Systems Specialist III	Utilities	114	\$ 35,142.59	\$ 43,928.24	\$ 52,713.89
GIS Technician I	Utilities	114	\$ 35,142.59	\$ 43,928.24	\$ 52,713.89
Operations Specialist III	Utilities	114	\$ 35,142.59	\$ 43,928.24	\$ 52,713.89
Plant Maintenance Specialist III	Utilities	114	\$ 35,142.59	\$ 43,928.24	\$ 52,713.89
Lead Lab Analyst	Utilities	114	\$ 35,142.59	\$ 43,928.24	\$ 52,713.89
Water/Wastewater Specialist	Utilities	114	\$ 35,142.59	\$ 43,928.24	\$ 52,713.89
Watershed & Park Operations Crewleader III	Watershed & Park Operations	114	\$ 35,142.59	\$ 43,928.24	\$ 52,713.89
CCTV Utilities Specialist	Utilities	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Computer Technician	Information Technology	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Engineering Technician	Watershed Engineering	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Equipment Operator Lead Specialist	Utilities	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Executive Assistant	Executive Offices	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
GIS Technician II	Utilities	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Operations Lead Specialist	Utilities	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Utilities Collection System Lead Specialist	Utilities	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Utilities Line Inspector II	Utilities	115	\$ 36,899.72	\$ 46,124.65	\$ 55,349.58
Aquatic Biologist I	Environmental Sciences	116	\$ 38,744.71	\$ 48,430.88	\$ 58,117.06
GIS Technician III	Utilities	116	\$ 38,744.71	\$ 48,430.88	\$ 58,117.06
Lab Services Coordinator I	Environmental Sciences	116	\$ 38,744.71	\$ 48,430.88	\$ 58,117.06

Job Title	Department/Division	Pay Grade	Pay Grade Min Annual	Pay Grade Mid Annual	Pay Grade Max Annual
Line Inspector III	Utilities	116	\$ 38,744.71	\$ 48,430.88	\$ 58,117.06
Stormwater Scientist I	Environmental Sciences	116	\$ 38,744.71	\$ 48,430.88	\$ 58,117.06
Water Quality Scientist I	Environmental Sciences	116	\$ 38,744.71	\$ 48,430.88	\$ 58,117.06
Account Analyst	Accounting	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Aquatic Biologist II	Environmental Sciences	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Collection System Foreman	Utilities	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Community Relations Coordinator	Intergovernmental & Community Relations	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Education Coordinator	Intergovernmental & Community Relations	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Environmental Investigation Specialist I	Environmental Sciences	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Intergovernmental Coordinator	Intergovernmental & Community Relations	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Lab Services Coordinator II	Environmental Sciences	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Line Inspection Foreman	Utilities	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Operations Facility Foreman	Utilities	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Park Foreman	Watershed & Park Operations	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Park Program Coordinator	Watershed & Park Operations	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Plant Maintenance Foreman	Utilities	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Real Estate Representative I	Real Estate	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Recreation Event Coordinator	Watershed & Park Operations	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Shop Maintenance Foreman	Utilities	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Stormwater Scientist II	Environmental Sciences	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Survey Party Chief	Watershed Engineering	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Watershed & Park Operations Foreman	Watershed & Park Operations	117	\$ 40,681.94	\$ 50,852.43	\$ 61,022.91
Aquatic Biologist III	Environmental Sciences	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Art Direction Coordinator	Intergovernmental & Community Relations	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Business Technology Specialist	Information Technology	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Collections Quality Control Supervisor	Utilities	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Community Assistance Operator	Utilities	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Environmental Data Specialist I	Environmental Sciences	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
GIS Analyst	Support Services	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Operations Quality Control Supervisor	Utilities	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Senior Aquatic Biologist	Environmental Sciences	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Stormwater Scientist III	Environmental Sciences	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Water Quality Scientist II	Environmental Sciences	118	\$ 42,716.04	\$ 53,395.05	\$ 64,074.06
Budget Analyst	Budget Services	119	\$ 44,851.84	\$ 56,064.80	\$ 67,277.76
Environmental Investigation Specialist I	Environmental Sciences	119	\$ 44,851.84	\$ 56,064.80	\$ 67,277.76
Natural Resource Management Specialist	Watershed & Park Operations	119	\$ 44,851.84	\$ 56,064.80	\$ 67,277.76
Real Estate Representative II	Real Estate	119	\$ 44,851.84	\$ 56,064.80	\$ 67,277.76
Senior Engineering Technician	Watershed Engineering	119	\$ 44,851.84	\$ 56,064.80	\$ 67,277.76
Water Quality Scientist III	Environmental Sciences	119	\$ 44,851.84	\$ 56,064.80	\$ 67,277.76

Job Title	Department/Division	Pay Grade	Pay Grade Min Annual	Pay Grade Mid Annual	Pay Grade Max Annual
Assistant Maintenance Superintendent	Utilities	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Assistant WWTP Operations Superintendent	Utilities	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Electrician	Operations	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Engineering Technician Supervisor	Watershed Engineering	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Environmental Data Specialist II	Environmental Sciences	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Environmental Investigation Specialist II	Environmental Sciences	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Quality Assurance Specialist II	Environmental Sciences	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Stormwater Analyst	Environmental Sciences	120	\$ 47,094.43	\$ 58,868.04	\$ 70,641.65
Environmental Investigation Specialist III	Environmental Sciences	121	\$ 49,449.16	\$ 61,811.44	\$ 74,173.73
Real Estate Representative III	Real Estate	121	\$ 49,449.16	\$ 61,811.44	\$ 74,173.73
Community Relations Specialist	Intergovernmental & Community Relations	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Culture and Compensation Specialist	Human Resources	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Database Specialist	Information Technology	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Development Support Specialist I	Information Technology	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Education Specialist	Intergovernmental & Community Relations	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Executive Offices Administrator	Executive Offices	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Human Resources Specialist	Human Resources	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Human Resources/Safety Specialist	Human Resources	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Laboratory Supervisor	Environmental Sciences	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Quality Control/Data Management Supervisor	Environmental Sciences	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Stormwater Investigations Supervisor	Environmental Sciences	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Systems Administrator	Information Technology	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Watershed Monitoring Supervisor	Environmental Sciences	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Web Administrator	Information Technology	122	\$ 51,921.61	\$ 64,902.02	\$ 77,882.42
Graduate Engineer	Watershed Engineering	123	\$ 54,517.69	\$ 68,147.12	\$ 81,776.54
Network Administrator	Information Technology	123	\$ 54,517.69	\$ 68,147.12	\$ 81,776.54
Facilities and Maintenance Superintendent	Utilities	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Intergovernmental Specialist	Intergovernmental & Community Relations	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
WPO Landscape Superintendent	Watershed & Park Operations	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
WPO Maintenance Superintendent	Watershed & Park Operations	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
WPO Park and Dam Superintendent	Watershed & Park Operations	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Project & Planning Specialist	Budget Services	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Recreation Superintendent	Watershed & Park Operations	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Registered Professional Land Surveyor Lead	Watershed Engineering	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Utilities Development Superintendent	Utilities	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Utilities Maintenance Superintendent	Utilities	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Utilities Operations Superintendent	Utilities	124	\$ 57,243.58	\$ 71,554.47	\$ 85,865.37
Landscape Architect	Environmental Sciences	125	\$ 60,105.76	\$ 75,132.20	\$ 90,158.64
Stormwater Specialist	Environmental Sciences	125	\$ 60,105.76	\$ 75,132.20	\$ 90,158.64

Job Title	Department/Division	Pay Grade	Pay Grade Min Annual	Pay Grade Mid Annual	Pay Grade Max Annual
Sustainable Landscape Ecologist	Environmental Sciences	125	\$ 60,105.76	\$ 75,132.20	\$ 90,158.64
Project Manager	Watershed Engineering	126	\$ 63,111.05	\$ 78,888.81	\$ 94,666.57
Senior Financial Accountant	Accounting	126	\$ 63,111.05	\$ 78,888.81	\$ 94,666.57
Senior Operations Superintendent	Watershed & Park Operations	126	\$ 63,111.05	\$ 78,888.81	\$ 94,666.57
Public Art Curator	Executive Offices	127	\$ 66,266.60	\$ 82,833.25	\$ 99,399.90
Engineer	Watershed Engineering	128	\$ 69,579.93	\$ 86,974.91	\$ 104,369.89
Senior Laboratory and Data Management Scientist	Environmental Sciences	129	\$ 73,058.92	\$ 91,323.66	\$ 109,588.39
Senior Quality Control and Monitoring Scientist	Environmental Sciences	129	\$ 73,058.92	\$ 91,323.66	\$ 109,588.39
Senior Stormwater Supervisor	Environmental Sciences	129	\$ 73,058.92	\$ 91,323.66	\$ 109,588.39
Senior Technical Engineer	Environmental Sciences	129	\$ 73,058.92	\$ 91,323.66	\$ 109,588.39
Senior Engineer	Watershed Engineering	130	\$ 76,711.87	\$ 95,889.84	\$ 115,067.81
Accounting Manager	Accounting Services	133	\$ 88,803.58	\$ 111,004.47	\$ 133,205.37
Procurement Manager	Support Services	133	\$ 88,803.58	\$ 111,004.47	\$ 133,205.37
Real Estate Manager	Real Estate	133	\$ 88,803.58	\$ 111,004.47	\$ 133,205.37
Budget Services Manager	Budget Services	134	\$ 93,243.76	\$ 116,554.70	\$ 139,865.64
Information Technology Manager	Information Technology	134	\$ 93,243.76	\$ 116,554.70	\$ 139,865.64
Environmental Sciences Manager	Environmental Sciences	135	\$ 97,905.95	\$ 122,382.43	\$ 146,858.92
Utilities Manager	Utilities	135	\$ 97,905.95	\$ 122,382.43	\$ 146,858.92
Watershed & Park Operations Manager	Watershed & Park Operations	135	\$ 97,905.95	\$ 122,382.43	\$ 146,858.92
Watershed Engineering Manager	Watershed Engineering	135	\$ 97,905.95	\$ 122,382.43	\$ 146,858.92
Director of Government & Public Affairs	Executive Offices	140	\$ 124,955.55	\$ 156,194.44	\$ 187,433.33
Director of Human Resources	Executive Offices	140	\$ 124,955.55	\$ 156,194.44	\$ 187,433.33
Director of Legal Services	Executive Offices	140	\$ 124,955.55	\$ 156,194.44	\$ 187,433.33
Director of Operations	Executive Offices	140	\$ 124,955.55	\$ 156,194.44	\$ 187,433.33
Director of Support Services	Executive Offices	140	\$ 124,955.55	\$ 156,194.44	\$ 187,433.33
Director of Technical Services	Executive Offices	140	\$ 124,955.55	\$ 156,194.44	\$ 187,433.33
Assistant General Manager	Executive Offices	145	\$ 159,478.47	\$ 199,348.09	\$ 239,217.70
General Manager	Executive Offices	151	\$ 213,716.40	\$ 267,145.50	\$ 320,574.60

San Antonio River Authority Policies

General	
<u>Policy Number:</u>	<u>Policy Name</u>
EO 0001	Communications Policy
EO 0002	Archives Policy of the San Antonio River Authority
Facilities	
<u>Policy Number:</u>	<u>Policy Name</u>
AS 0002	Evacuation of Administration Building
AS 0004	Visitor Sign-In and Badges
FA 0007	Pool Vehicles
Finance	
<u>Policy Number:</u>	<u>Policy Name</u>
AS 0006	Utilization of small and minority women's business enterprises and historically underutilized business for procurement and professional services
AS 0011	Records Management
AS 0013	Responding to Information Requests/ Charge for an Open Records Request
FN 0001	Selection, Monitoring and Evaluation of Professional Services/Consultants
FN 0002	Fund Balance Policy
FN 0003	Investment Policies and Strategies
FN 0004	Obligation and Disbursement of Funds
FN 0005	San Antonio River Authority Purchasing Card Policy and Procedures
FN 0006	Tax Increment Financing Evaluation Criteria
FN 0007	Identity Theft Prevention Program
FN 0008	Cellular Phone Stipends
FN 0009	Purchasing Procedures
FN 0010	Notes Receivable Policy
FN 0011	Authorization for Personal Meals Lodging Entertainment and Travel
FN 0014	Fixed Assets
FN 0015	Grants Management
Information Technology	
<u>Policy Number:</u>	<u>Policy Name</u>
IT 0003	Email Usage
IT 0006	Internet Usage
IT 0007	Password
IT 0008	Contact Standards
IT 0009	Computer Remote Access Policy
IT 0010	Electronic Equipment Request
Real Estate	
<u>Policy Number:</u>	<u>Policy Name</u>
RE 0001	Real Estate Policy

Return to TOC

San Antonio River Authority Policies


Human Resources	
<u>Policy Number:</u>	<u>Policy Name</u>
HR 0001	Harassment
HR 0002	Tuition Assistance/Reimbursement
HR 0003	Employee Appraisal
HR 0004	Workplace Violence
HR 0005	Recruiting
HR 0006	Background
HR 0007	Job Description
HR 0008	Compensation
HR 0009	Holidays
HR 0010	Smoking
HR 0012	Absence Due to Inclement Weather
HR 0013	Personnel Files and Open Records
HR 0014	Bereavement Leave
HR 0015	Jury Duty
HR 0016	Working Days and Hours
HR 0017	Categories for Employment
HR 0018	Equal Employment
HR 0019	Physical Exam Over 40
HR 0020	Implied Resignation
HR 0021	Annual Paid/Vacation Leave
HR 0023	Leave of Absence
HR 0024	Ethics Reporting Policy/Whistleblower
HR 0025	Safety Incentive
HR 0026	Military Leave
HR 0027	Subrogation/Reimbursement of Third Party Liability
HR 0028	FMLA
HR 0029	Sick Leave Pool
HR 0030	Participation in Civic and Professionally Oriented Organizations
HR 0031	Payment for required Licenses, Certificates and Permits
HR 0032	Sick Leave
HR 0033	Employee Discipline
HR 0034	Resignations and Terminations
HR 0035	Return to Work
HR 0036	Hazardous Communication Policy
HR 0037	Safety Footwear
HR 0038	Safety Eyewear
HR 0039	Drug and Alcohol Testing of Employees
HR 0040	Former Employee Conflict of Interest
HR 0041	Code of Ethics for River Authority Employees
HR 0042	Internal Applications
HR 0043	Dress and Appearance
HR 0044	Vehicle Safety
HR 0045	Uniforms
HR 0046	Authorization to Attend a Conference, Seminar or Training Course

Return to TOC

San Antonio River Authority Policies

The San Antonio River Authority's policies and guidelines are established through an extensive review and approval process. Generally, the department responsible for the function(s) guided by the policy or guideline drafts the initial document. The draft is then reviewed by the management and executive teams for their input. Managers are responsible for garnering input from their staffs to make the process as inclusive as possible. Once a final draft is completed, guidelines are approved and signed by the General Manager. Policies are approved by the General Manager in some cases and by the Board of Directors in other instances. Policies are taken to the Board of Directors for consideration when they impact Board functions that may be outlined in the River Authority bylaws and/or when they may have a fiscal impact (e.g. such as approval of grant applications). Board approval is sought through the regular open meetings process with an item placed on the Board's agenda.

Once a policy or guideline is adopted, the department responsible for the function(s) is responsible for monitoring compliance. In some instances, for example the investment policy that is required by statute, the outside auditors check for compliance. In other cases, such as the Grants Policy and Procedures, grantors may also audit for compliance. Supervisors and managers also take an active role in overseeing their employees' actions and activities to ensure they follow the required policies and procedures.

	SAN ANTONIO RIVER AUTHORITY	POLICY & PROCEDURE	POLICY NUMBER: FN 0002
SUBJECT: Fund Balance Policy		REPLACING POLICY NUMBER: EO 0008	
RESPONSIBLE MANAGER: Financial Services Manager	EFFECTIVE DATE: 08/15/2001		PAGE(S): 1 of 3
	REVISED DATE: 04/2015		

PURPOSE

The purpose of this policy is to establish guidelines for the allocation and use of San Antonio River Authority (River Authority) fund balances.

FUND CATEGORIES

Governmental-type Activity Funds: Funds that receive revenues through taxes, payments from other governmental entities, charges for services and other revenues. There are five categories of fund balances for governmental funds for purposes of financial reporting: non-spendable (non-cash items such as notes receivable), restricted, committed, assigned, and unassigned.

For the River Authority, governmental-type activity funds include the General Fund, Debt Service Fund, special revenue funds and capital project funds.

Business-type Activity Funds: Funds that are financed in whole or in part by fees charged to external parties for goods or services. These activities are the River Authority’s enterprise funds and internal service funds. There are four types of fund balances for enterprise funds for financial reporting purposes: invested in capital assets, restricted for debt service, restricted for construction and unrestricted. The invested in capital assets portion of the fund balance does not represent cash.

The categories and types of fund balances described above for each type of fund are used and necessary for financial reporting such as the Comprehensive Annual Financial Report. These categories and types are not necessary for the adopted annual budget.

FUND BALANCE DEFINITIONS:

The financial accounting definitions of the different types of fund balances (as required by GASB 54) and used by the River Authority in the Comprehensive Annual Report and other financial reporting are as follows.

- Non-spendable Fund Balance consists of funds that cannot be spent due to their non-cash form (i.e. inventory, prepaid expenses, notes receivable) or funds that legally or contractually cannot be spent.
- Restricted Fund Balance consists of funds that are mandated for a specific purpose by external parties (i.e. grantors, contributors, creditors, laws, regulations, or other governments), constitutional provisions or enabling legislation. Grant funds and debt proceeds are examples of restricted funds.

- Committed Fund Balance consists of funds that are set aside for a specific purpose by the River Authority's Board of Directors. Formal Board action must be taken to either commit funds or to remove or change the limitations placed on the funds.
- Assigned Fund Balance consists of funds that are set aside *with the intent* to be used for a specific purpose by the River Authority's Board of Directors or General Manager (or designee) who has been given the authority to assign funds. Assigned funds cannot cause a deficit in unassigned fund balance.
- Unassigned Fund Balance consists of excess funds that have not been classified in the previous four categories. All funds in this category are considered spendable resources. This category also provides the resources necessary to meet unexpected expenditures and revenue shortfalls. This category includes the Operating Reserve and the Unrestricted Reserve described below.

The main objectives of establishing and maintaining a fund balance policy are to ensure that the River Authority:

- Is in a strong financial position
- Has sufficient cash to meet payment obligations
- Can maintain favorable, high bond ratings
- Has sufficient reserves to react to emergency, unforeseen and/or extraordinary occurrences (for example a flood) or revenue shortfalls
- Is able to weather negative economic trends

The policy also helps the River Authority preserve flexibility throughout the fiscal year to make adjustments in funding for programs approved in connection with the annual budget.

It is the responsibility of the Support Services Director to report all fund balances appropriately in the River Authority's Audited Financial Statements and Annual Adopted Budget. This includes all notes receivable.

Authority to Commit Funds

The River Authority's Board of Directors has the authority to set aside funds for a specific purpose and to establish a committed or assigned fund balance(s). A formal action of the River Authority Board of Directors must be taken to commit/un-commit and assign/un-assign fund balance for a specific purpose.

The General Manager has the authority to use up to \$500,000 in available fund balances to respond to an emergency situation resulting from natural or man-made disasters such as flooding. The General Manager will bring actions taken to address the emergency to the River Authority's Board of Directors for ratification at the first available meeting.

Operating Reserve (Unassigned Fund Balance)

The Operating Reserve is available, if necessary: to cover unexpected expenditures and/or revenue shortfalls; to react to unforeseen and/or extraordinary occurrences (for example a flood); to provide sufficient cash flow for operations, to protect the River Authority's strong financial position, to weather economic downturns, or for other appropriate needs as determined by the Board of Directors.

The River Authority's General Fund and all utility system(s) operating funds will set a target to maintain a minimum of 25 percent (three months) of the annual budgeted operating expenses as an operating reserve. Operating expenses to be included in the determination of the appropriate level of the reserve include personnel and operating supplies and contracts. Expenses not included in the reserve calculation are project related expenditures and transfers to other funds. The Operating Reserve will have as a target maintaining a reserve at 25 percent of the annual budgeted operating expenses as defined here and will be fully funded before any other fund balance reserves are increased. However, commitments to repay other fund balance reserves will be met regardless of the current balance in the Operating Reserve.

Unrestricted Reserve


The River Authority maintains reserve funds that can be used for purposes that assist the River Authority's mission. This may include funding projects and asset acquisition without issuing debt and incurring interest costs. These funds' use includes but is not limited to: completing capital projects, funding studies, purchasing assets, and executing loans to move projects forward sooner as well as other activities approved by the River Authority Board of Directors. These funds should be used to support the River Authority's strategic plan goals and objectives. Use of these funds is at the discretion of the River Authority Board of Directors; annually, the Board may delineate the types of projects for which these funds may be used. This reserve will be accounted for in a fund separate from the General Fund.

The River Authority's Board of Directors may take action annually after the approval of the audit to move the available fund balance between the categories described in this policy.


Approved:



Suzanne B. Scott, General Manager



Date

	<p align="center">SAN ANTONIO RIVER AUTHORITY</p>	<p align="center">POLICY & PROCEDURE</p>	<p align="center">POLICY NUMBER: FN 0003</p>
<p>SUBJECT:: Investment Policy and Strategy</p>		<p align="center">FINANCE</p>	<p align="center">REPLACING POLICY NUMBER: EO 0009</p>
<p>RESPONSIBLE MANAGER: Director of Support Services</p>		<p>EFFECTIVE DATE: 05/21/2003</p>	
		<p>REVISED DATE: 11/16/2016</p>	<p>PAGE(S): 1 of 18</p>

Reference: Chapter 2256 Government Code, Public Funds Investment Act of the State of Texas (the "Act").

1. POLICY

To invest public funds in a manner which will provide the maximum security for the investment portfolio, while working to yield the highest reasonable investment return and meeting the daily cash flow demands of the San Antonio River Authority (River Authority) and conforming to all state and local statutes governing the investment of funds.

2. SCOPE

Except for its employee retirement system fund and the Deferred Compensation Fund, organized and administered separately by a third party custodian and/or money manager, this investment policy applies to all financial assets of the River Authority. These funds are accounted for in the River Authority Comprehensive Annual Financial Report and include:

- General Fund
- Special Revenue Funds
- Capital Project Funds
- Enterprise Funds
- Agency Funds
- Debt Service Funds
- Any new fund created by the Board, unless specifically exempted.

These funds shall be administered in accordance with the provisions of this policy. The monies from these funds may be comingled for investment purposes but the strategy which will be developed for that portfolio will address the varying needs and objectives of each fund.

3. OBJECTIVES

The primary objectives, in priority order, of the River Authority investment activities shall be:

a. Safety

Safety of principal is the foremost objective of the investment of funds. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. The objective will be to mitigate credit risk and interest rate risk.

i. Credit Risk

Credit Risk is the risk of loss due to the failure of the security issuer or backer. Credit risk can be managed by:

- Limiting investments to the highest credit quality securities;
- Pre-qualifying the financial institutions, broker/dealers, intermediaries, and advisors with which the River Authority will do business; and
- Diversifying the investment portfolio so that potential losses on individual securities will be minimized and to spread risk.

ii. Interest Rate Risk

Interest rate risk is the risk that the market value of securities in the portfolio will fall due to changes in general interest rates. Interest rate risk can be managed by:

- Structuring the investment portfolio so that securities mature to meet cash requirements for ongoing operations, thereby avoiding the need to sell securities on the open market prior to maturity, and
- By investing operating funds primarily in shorter-term securities.

b. Liquidity

The investment portfolio shall remain sufficiently liquid to meet all operating requirements that may be reasonably anticipated. This is accomplished by structuring the portfolio so that securities mature concurrent with cash needs to meet anticipated demands and maintaining a liquidity buffer. Furthermore, since all possible cash demands cannot be anticipated, the portfolio should consist largely of securities with active secondary or resale markets.

c. Yield

The investment portfolio shall be designed with the objective of attaining a market yield throughout budgetary and economic cycles, taking into account the investment risk constraints and liquidity needs. Yield on investment is of least importance compared to the safety and liquidity objectives described above. The core of investments is limited to relatively low risk securities in anticipation of earning a fair yield relative to the risk being assumed. Securities shall not be sold prior to maturity with the following exceptions:

- a declining credit security could be sold early to minimize loss of principal;
- a security swap would improve the quality, yield, or target duration in the portfolio; or
- liquidity needs of the portfolio require that the security be sold.

4. STANDARDS OF CARE

a. Ethics and Conflicts of Interest

Investment officers and employees involved in the investment process shall refrain from personal business activity that could conflict with the proper execution and management of the investment program, or could impair their ability to make impartial decisions. Employees and investment officials shall disclose any material interests in financial institutions with which they conduct investment business. They shall further disclose any personal financial/investment positions that could be related to the performance of the investment portfolio. Employees and investment officers shall refrain from undertaking personal investment transactions with the same individual with whom business is conducted on behalf of the River Authority. The investment officers shall disclose all conflicts to the Board.

If the investment officer of the River Authority has a personal business relationship, i.e. is related within the second degree by affinity or consanguinity, as determined under Chapter 573, to an individual seeking to sell an investment to the River Authority, the officer shall file a statement disclosing that relationship with the Texas Ethics Commission and the River Authority Board of Directors. The investment officer must so disclose if:

- the investment officer(s) owns ten percent or more of the voting stock or shares of the business organization or owns \$5,000 or more of the fair market value of the business organization;
- funds received by the investment officer(s) from the business organization exceeds ten percent of the investment officer's gross income from the previous year; or

- the investment officer(s) has acquired from the business organization during the previous year, investments with a book value of \$2,500 or more for the personal account of the investment officer(s).

b. Delegation of Authority

Under the direction of the General Manager, authority to manage the investment of funds is granted to the Budget Services Manager, Accounting Manager and the Director of Support Services, who are the investment officers. The Authority may also contract with an SEC-registered Investment Adviser for non-discretionary management of the funds. The Director of Support Services shall be designated as the Investment Officer for the Authority. The General Manager, Assistant Manager or Treasurer of the Board shall review all purchases and sales of investments made by the investment officer or adviser. The Director of Support Services, the Budget Services Manager, the Accounting Manager and Investment Adviser shall carry out established written procedures and internal controls for the operation of the investment of funds consistent with this investment policy. Unless otherwise authorized by law, a person may not deposit, withdraw, invest, transfer, or manage in any other manner, funds of the River Authority's investment portfolio without express written authority of the Board of Directors, General Manager, Director of Support Services, Accounting Manager or Budget Services Manager, consistent with the investment policy adopted by the Board.

Authority that is granted to the Budget Services Manager, Accounting Manager and the Director of Support Services to deposit, withdraw, invest, transfer, or manage the River Authority's funds is effective until rescinded by the Board or until termination of the person's employment. Procedures should include references to safekeeping, delivery vs. payment, investment collateral/depository agreements and banking services contracts. No person may engage in an investment transaction except as provided under the terms of this policy and the procedures established by the Board of Directors.

The designated investment officer(s) shall attend at least one training session relating to the investment officer's responsibilities, as required, within 12 months after taking office or assuming responsibilities. The investment officer(s) shall attend an investment training session not less than once in a two-fiscal year period and receive not less than ten hours of instruction relating to investment responsibilities, as required, from an independent source.

c. Prudence

The standard of prudence to be used by investment officer(s) and Investment Adviser shall be the "prudent person" standard and shall be applied in the context of managing the overall portfolio. Investment officers acting in accordance with written procedures and this investment policy and exercising due diligence shall be relieved of personal liability for an individual security's credit risk or market price changes, provided deviations from expectations are reported in a timely fashion and the liquidity and the sale of securities are carried out in accordance with the terms of this policy.

Investments shall be made with judgment and care, under circumstances then prevailing, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital as well as the probable income to be derived.

5. AUTHORIZED FINANCIAL DEALERS AND INSTITUTIONS

A list approved by the River Authority Board or Fiscal Committee will be maintained of broker/dealers and financial institutions authorized to sell securities to the Authority. The Board shall annually adopt the list of qualified broker/dealers authorized to engage in investment transactions. These may include "primary" dealers, regional dealers or brokers that qualify under Securities and Exchange Commission Rule 15C3-1 (uniform net capital rule).

All broker/dealers and financial institutions who desire to be a certified counterparty for investment transactions must supply the following as appropriate:

- audited financial statements;
- proof of Financial Industry Regulatory Authority (FINRA) certification (as applicable);
- proof of state registration;
- completed broker/dealer questionnaire; and
- certification of having received and thoroughly reviewed the River Authority's investment policy.

A current audited financial statement is required to be on file for each financial institution and broker/dealer in which the River Authority invests.

6.. INTERNAL CONTROLS

The Director of Support Services is responsible for establishing and maintaining an internal control structure designed to ensure that the assets of the River Authority

are protected from loss, theft or misuse. The internal control structure shall be designed to provide reasonable assurance that these objectives are met. The concept of reasonable assurance recognizes that (1) the cost of control should not exceed the benefits likely to be derived; and (2) the valuation of costs and benefits requires estimates and judgments by management. The Investment Officer will perform an internal compliance audit of the procedures annually to assure compliance with the Act and this Investment Policy

An external auditor will perform an annual independent review to assure compliance with policies and procedures. As part of the scope of the River Authority's annual audit, all internal controls on investments, safekeeping procedures and investment procedures performance will be presented to the Fiscal Committee by the Auditor. The internal controls shall address the following points:

a. Control of collusion

Collusion is a situation where two or more employees are working in conjunction to defraud their employer.

b. Separation of transaction authority and action from accounting and record keeping.

By separating the person who authorizes or performs the transaction from the people who record or otherwise account for the transaction, a separation of duties is achieved.

c. Custody and Safekeeping

Securities purchased by the Authority shall be settled delivery versus payment into the River Authority's designated depository bank.

Collateral pledged to the Authority for time and demand deposits in any financial institution shall be held in an independent third-party institution approved by the Authority.

d. Clear delegation of authority to subordinate staff members

Subordinate staff members must have a clear understanding of their authority and responsibilities to avoid improper actions. Clear delegation of authority also preserves the internal control structure that is contingent on the various staff positions and their respective responsibilities.

e. Written confirmation on all transactions for investments and wire transfers

Due to the potential for error and improprieties, all transactions should be supported by written documentation and approved by the appropriate

independent person. Written communications may be via fax or email if on letterhead and the safekeeping institution has a list of authorized signatures.

f. Delivery vs. Payment

All security trades will be executed by delivery vs. payment (DVP). This ensures that securities are deposited in the Authority's financial institution prior to the release of funds. The safekeeping agent will hold securities as evidenced by safekeeping receipts provided to the River Authority.

g. Monitoring Credit Ratings

The Investment Officer or Investment Adviser shall monitor, on no less than a monthly basis, the credit rating on all authorized investments in the portfolio based upon independent information from a nationally recognized rating agency. If any security falls below the minimum rating required by this Policy, the Investment Officer or adviser shall notify the General Manager of the loss of rating, conditions affecting the rating and possible loss of principal with liquidation options available, within three business days after learning of the loss of the required rating.

h. Monitoring FDIC Status

The Investment Officer or Investment Adviser shall monitor, on no less than a weekly basis, the status and ownership of all banks whose brokered CDs are owned by the Authority based upon information from the FDIC. If any bank has been acquired or merged with another bank in which brokered CDs are owned, the Investment Officer or Investment Adviser shall immediately liquidate any brokered CD which places the Authority above the FDIC insurance level.

i. Competitive Bidding

All security transactions will be made on a competitive basis to assure the Authority is receiving accurate market rates. When-issued securities shall be compared to other securities available in the secondary market.

j. Un-authorized Investment

Should amendments be made to State Law or River Authority policy, the River Authority will not be required to liquidate currently held investments that were authorized investments at the time of purchase. At maturity or liquidation, such monies shall be reinvested only as provided by this policy.

7. SUITABLE AND AUTHORIZED INVESTMENTS

a. Investment Types

Only the following will be authorized for investment by the Authority in accordance with the Public Funds Investment Act. Changes to the Act will not be authorized until the Policy is amended and adopted by the Authority Board.:

- i. Obligations of the United States or its agencies and instrumentalities, excluding mortgage backed securities, not to exceed a stated maturity of three (3) years;
- ii. Direct obligations of this state or its agencies and instrumentalities or obligations of states, agencies, counties, cities, and other political subdivisions of any state rated as to investment quality by a nationally recognized investment rating firm not less than A or its equivalent, in each case not to exceed three (3) years to stated maturity
- iii. Depository Certificates of Deposit (Section 2256.010)

A depository certificate of deposit is an authorized investment under this subchapter if the certificate of deposit is issued by a state or national bank that has its main office or a branch office in Texas and is:

- A. guaranteed or insured by the Federal Deposit Insurance Corporation or its successor;
- B. secured by obligations described in Sections 7(a)(i) or (ii) of this Policy or in any other manner provided by law for deposits of the River Authority.

iv. Brokered Certificate of Deposit Securities (2256.010)

FDIC insured brokered certificates of deposit securities from a bank in any US state, delivered versus payment to the Authority's safekeeping agent, not to exceed one year to maturity. Before purchase, the Investment Officer or Adviser must verify the FDIC status of the bank on www.fdic.gov to assure that the bank is FDIC insured.

v. Repurchase Agreements (Section 2256.011)

- A. A fully collateralized repurchase agreement is an authorized investment if the repurchase agreement:
 - (1) has a defined termination date;

- (2) is secured by obligations described by Section 2256.009(a) (1); and
 - (3) requires the securities being purchased by the River Authority to be pledged to the River Authority, held in the River Authority's name, and deposited at the time the investment is made with the River Authority or with a third party selected and approved by the River Authority; and
 - (4) is placed through a primary government securities dealer, as defined by the Federal Reserve, or a financial institution doing business in this state.
- B. In this section, "repurchase agreement" means a simultaneous agreement to buy, hold for a specified time, and sell back at a future date obligations described by Section 2256.009(a) (1), at a market value at the time that funds are disbursed of not less than the principal amount of the funds disbursed. The term includes a direct security repurchase agreement and a reverse security repurchase agreement.
 - C. Notwithstanding any other law, the term of any reverse security repurchase agreement may not exceed 90 days after the date the reverse security repurchase agreement is delivered.
 - D. Money received by the River Authority under the terms of a reverse security repurchase agreement shall be used to acquire additional authorized investments, but the term of the authorized investments acquired must mature not later than the expiration date stated in the reverse security repurchase agreement.
- vi. Bankers' Acceptances (Section 2256.012)

A bankers' acceptance is an authorized investment under this subchapter if the banker's acceptance:

- A. has a stated maturity of 180 days or fewer from the date of its issuance;
- B. will be, in accordance with its terms, liquidated in full at maturity;
- C. is eligible for collateral for borrowing from a Federal Reserve Bank; and
- D. is accepted by a bank organized and existing under the laws of the United States or any state, if the short-term obligations of the bank,

or of a bank holding company of which the bank is the largest subsidiary, are rated not less than A-1 or P-1 or an equivalent rating by at least one nationally recognized credit rating agency.

vii. Commercial Paper (Section 2256.013)

Commercial paper is an authorized investment under this subchapter if the commercial paper:

- A. has a stated maturity of 180 days or fewer from the date of its issuance; and
- B. is rated not less than A-1 or P-1 or an equivalent rating by at least:
 - (1) two nationally recognized credit rating agencies.

viii. Money Market Mutual Funds (Section 2256.014)

- A. A money market mutual fund is an authorized investment under this subchapter if the fund:
 - (1) is registered with and regulated by the Securities and Exchange Commission;
 - (2) provides the River Authority with a prospectus and other information required by the Securities Exchange Act of 1934 (15 U.S.C. Section 78a et seq.) or Investment Company Act of 1940 (15 U.S.C. Section 80a-1 et seq.)
 - (3) Is AAA-rated;
 - (3) has a dollar-weighted average stated maturity of 60 days or fewer; and
 - (4) includes in its investment objectives the maintenance of a stable net asset value of \$1 for each share

ix. Investment Pools (Section 2256.016)

- A. The River Authority may invest its funds and funds under its control in a AAA-rated (or equivalent) Texas local government investment pool which strives to maintain a \$1 net asset value. The governing body of the River Authority by rule, order, ordinance, or resolution, as appropriate, must authorize investment in the particular pool by resolution.

- x. Fully insured or collateralized interest bearing accounts in any bank in Texas.

b. Collateralization

In accordance with state law on the Collateralization of Public deposits, the Public Funds Collateral Act, Texas Government Code 2257 and the River Authority depository contract, full collateralization will be required on all time and demand deposits.

Time and Demand Deposits Pledged Collateral

All bank time and demand deposits shall be collateralized above the FDIC coverage by pledged collateral. In order to anticipate market changes and provide a level of security for all funds, collateral will be maintained and monitored by the pledging depository at 102 percent of market value of principal and accrued interest on the deposits. The bank shall monitor and maintain the margins on a daily basis.

Collateral pledged to secure deposits shall be held by an independent financial institution outside the holding company of the depository. The written collateral agreement with the depository shall be approved by resolution of the Bank Board or Bank Loan Committee. The custodian shall provide a monthly report of collateral directly to the Authority.

All collateral shall be subject to inspection and audit by the Authority or its independent auditors.

Owned Repurchase Agreement Collateral

Collateral under a repurchase agreement is 'owned' by the River Authority. Collateral will equal 102 percent of principal and interest at all times and be delivered versus payment to the custodian. An executed copy of the Master Repurchase Agreement must be approved before any transaction is initiated. Collateral will be evidenced by safekeeping receipts clearly denoting River Authority ownership from the safekeeping agent and held by an independent third party custodian approved by the River Authority.

Authorized Collateral

Only the following securities are authorized as collateral for time and demand deposits or repurchase agreements:

- i. FDIC insurance coverage.
- ii. Obligations of the United States, its agencies or instrumentalities, or evidence of indebtedness of the United States guaranteed as to principal and interest including MBS and CMO which pass the bank test.

- iii. Obligations of any US state or of a county, city or other political subdivision of any state having been rated as investment grade (investment rating no less than “A” or its equivalent) by two nationally recognized rating agencies.
- iii. Letter of Credit from the FHLB.

c. Compliance with State Law

All authorized investments outlined above must meet the requirements of the Act. No investment may be made in any instrument except as provided above.

8. INVESTMENT PARAMETERS

a. Diversification

The investments will be diversified by security type and institution.

b. Maximum Maturity

The River Authority shall limit their maximum final stated maturity to three (3) years. To the extent possible, investments will be made to match anticipated cash flow requirements.

c. Maximum Dollar-Weighted Average Maturity

The maximum dollar-weighted maturity of the total portfolio shall not exceed one (1) year to maturity. In order to monitor risk and performance, the one-year Treasury Bill for the comparable reporting period will be utilized as the benchmark for the total portfolio.

9. REPORTING

a. Methods

An investment report will be prepared quarterly in accordance with the Act. The report will include a management summary that provides the status of the current investment portfolio. This report will be provided to the Board of Directors and will be signed by the Director of Support Services and the Accounting Manager and the Investment Adviser, if applicable.

b. Marking to Market

A statement of the market value of the portfolio shall be done quarterly using an independent source. This will ensure accurate market values on the portfolio.

10. AMENDMENT AND ANNUAL ADOPTION OF THE POLICY

This policy shall be reviewed annually by the Board of Directors. The Board shall adopt, by resolution or ordinance, the investment policy and strategies. The adopting resolution shall reference all changes made to the policy.

11. INVESTMENT STRATEGIES

The River Authority operates with a pooled investment strategy recognizing the needs of the individual funds of the River Authority in the comingled portfolio. The Authority intends to generally match investments with the projected cash flows and liquidity needs in a laddered portfolio and using generally a buy-and-hold strategy. In no case will the dollar-weighted average maturity of the portfolio exceed one (1) year. The maximum final stated maturity of any investment shall not exceed three years.

- a. The Operating Funds of the River Authority include the General Fund and utility funds.

Investment strategies for the operating funds of the River Authority have as their objectives the following: to assure that the anticipated cash flows are matched with adequate liquidity. During economic cycles, assuring that the investment portfolio will experience minimal volatility. Investment purchases will be of high quality, with short to medium term securities that complement each other in a laddered portfolio structure.

- b. Debt Service Funds

Investment strategies for the Debt Service Funds have as their primary objective the assurance of investment liquidity adequate to cover obligations on required payment dates. Securities purchased shall not have a stated maturity date, which exceeds the unfunded required payment date and each successive debt service date will be fully funded.

- c. The Reserve Funds of the River Authority include debt service reserves and construction and improvement reserves.

Investment strategies for the River Authority's Reserve Funds have as the primary objective the assurance of yield and availability should the reserve funds be required. In addition, where applicable, all bond covenants must be followed.

- d. The Capital Project Funds of the River Authority include projects funded by the River Authority, Bexar County, the City of San Antonio and other funding partners.

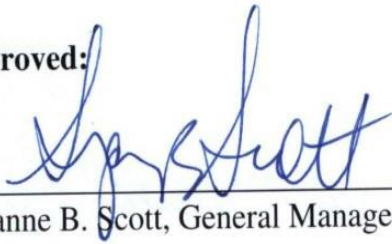
Investment strategies for the River Authority's project funds must first have as their primary objective the assurance of meeting cash flow requirements on all

contractual obligations. In addition, where applicable, all bond covenants must be followed. All securities purchased must be of high quality; short to medium term that complements each other in a laddered portfolio structure.

- e. The Special Revenue Funds of the River Authority include grant funds, park development funds and other special use funds.

Investment strategies for the special revenue funds of the River Authority have as their objective assurance that the anticipated cash flows are matched with adequate liquidity. During economic cycles, assure that the investment portfolio experiences minimal volatility.

Approved:



Suzanne B. Scott, General Manager

11/26/14

Date


**San Antonio River Authority
Authorized Broker/Dealer List
2016**

The authorized broker/dealer list for 2016 for the San Antonio River Authority is shown below. Each of these firms, and the individual covering the account, are sent the current Investment Policy. In accordance with the Public Funds Investment Act (TX Gov't Code 2256.005(k)), before any broker/dealer transacts business with the Authority, it will have had to certify in writing to a review of the Policy and have certified that procedures are in place to assure compliance with that Policy.

The Authority's Investment Policy establishes specific criteria for the brokers and requires that the list of broker/dealers be approved annually by the Board. Patterson & Associates maintains the brokerage compliance files for the Authority.

When any material changes are made to the Investment Policy, the new Policy is sent out to the approved broker/dealers for re-certification.

Hilltop Securities (formerly First Southwest Company)
FTN Financial
Loop Capital
Bank of America Merrill Lynch
Mizuho Securities
Morgan Stanley
Mutual Securities
Piper Jaffray
Raymond James
RBC Capital Markets
Stifel Nicolaus
Wells Fargo

	SAN ANTONIO RIVER AUTHORITY	POLICY	POLICY NUMBER: FN 015
SUBJECT: Grants Management		FINANCE	REPLACING POLICY NUMBER:
RESPONSIBLE MANAGER: Budget Services Manager		EFFECTIVE DATE:	
		REVISED DATE:	PAGE: 1 of 3

POLICY

It is the policy of the San Antonio River Authority (River Authority) to financially manage grants in accordance with federal, state, local, and other grantor guidelines.

PURPOSE

Provides policy direction regarding accounting for, managing, maintaining and reporting on grants awarded to the River Authority to ensure compliance with all applicable guidelines, procedures and requirements – both the River Authority’s and the granting agencies – and to ensure timely and accurate billings to the grantor.

The San Antonio River Authority (River Authority) is committed to leveraging its resources to advance the organization’s priorities. One strategy to accomplish this is the use of grant funding. The River Authority will seek grant funds based on the annual strategic plan as well as the priorities established through the annual budget process.

The Support Services Division is primarily responsible for facilitating the entire grant process from pre-proposal to close out. As grant funding opportunities are identified either by Support Services or any employee throughout the River Authority, Support Services will work with the individual or department who will be the sponsor throughout the grant process and program.

The River Authority’s annual strategic plan sets the organization’s overall goals and objectives. The budget process then identifies programs, projects and activities that support the strategic plan. Not all of these may be funded during the budget due to the amount of available funding. The budget process results in the identification of unfunded priorities; these should be a priority when seeking grant funding.

DEFINITIONS

Refer to the San Antonio River Authority Grants Procedures for definitions of terms.

POLICY GUIDELINES

General Grant Guidelines

- A. Throughout the fiscal year, Support Services staff will support prospecting for and acquiring new grant funding and will work to ensure that an identified grant opportunity advances the River Authority's goals and objectives identified in the strategic plan and that it is used, whenever possible, to fund identified priorities from the annual budget development process. Grant opportunities need to be evaluated from an organization-wide perspective.
- B. The grant's sponsor or subject matter expert will be responsible for developing the technical aspects of the grant application. Support Services staff will assist the sponsor or subject matter expert with the proposal, as necessary, developing the grant budget and gathering other information required by the grant. Once completed through this joint effort, Support Services will submit the grant and, if awarded, facilitate establishing the grant budget. Support Services will also provide assistance with grant compliance and reporting, submissions for reimbursement as well as grant close out.
- C. Grant agenda items will be presented to the Board of Directors, whenever possible, prior to submission of the grant. The Board will be asked to authorize submission of the application, to accept the funds if awarded (this also authorizes establishing the grant budget if funds are awarded), and authorize the General Manager to negotiate and accept the terms of the grant application and execute amendments to the grant as needed. If a grant deadline precludes Board approval prior to submission, the Board will be asked to ratify the submission, accept award and authorize the General Manager to execute documents and amendments. If the grant, as awarded, is substantially different from the original grant submission, the award must be taken to the Board of Directors for acceptance of the revised award. In all cases, grant awards will be reported to the appropriate Board Committee. All official grant award notices will be made to Support Services to ensure timely creation of the grant budget.
- D. The River Authority will conduct grant management duties in compliance with the rules and guidelines set forth by this policy, the San Antonio River Authority Grants Procedures, OMB Circular A-133 – Auditors of States, Local Governments and Non-Profit Organizations – when applicable, federal regulations under federal regulations 44 CFR and 2 CFR 225 App. B as applicable, Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards (also known as the Super Circular and codified as 2 CFR 200), State of Texas Single Audit Circular when applicable, and any applicable provisions of the grant contract with the grantor.
- E. All grants have specific contract provisions, laws, regulations, or rules that must be followed. Most federal grants must follow certain compliance requirements. These requirements relate to Activities Allowed or Unallowed; Cash Management; Financial Reporting; Equipment and Real Property Management; Matching/Cost Sharing Funds; In-Kind Contributions and Donated Services; Procurement; Program Income; Monitoring; Records Retention; and Travel. These requirements are described in further detail in this policy, in the San Antonio River Authority Grants Procedure and in OMB Circular A-133.

The River Authority will adhere to all applicable, specific grant requirements from federal, state, local, or other entities.

Activities and Allowable Costs

- A. The River Authority will adhere to all requirements related to each grant and will only expend funds for allowable activities. The River Authority will only budget for and expend funds that are allowed under the grant, to include direct and indirect costs.

Cash Management

- A. The River Authority has established methods and procedures for payment that minimize the time between the receipt of grant funds and disbursement to the River Authority's vendor(s), in accordance with federal regulation 44 CFR Subpart C 13.20 (b) (7) and 13.21 (b).

Equipment and Real Property Management

- A. Assets purchased with federal or state funds must adhere to River Authority Policy FN 0014 - Fixed Assets. The River Authority will adequately maintain all grant acquired equipment and property.

Program Income

- A. If program income is received by the River Authority, it will be applied as specified in the grant and will always be used to the benefit of the grant, not the River Authority.

Procurement

- A. The River Authority will use its own procurement procedures and will comply with applicable federal, state and local laws and regulations. Refer to River Authority policy FN 0009 Purchasing Procedures and the San Antonio River Authority Grants Procedures for details.

Approved



Suzanne B. Scott, General Manager

11/20/15

Date



SAN ANTONIO
RIVER AUTHORITY

Leaders in Watershed Solutions

GRANTS MANAGEMENT PROCEDURES

Effective Date: November 21, 2015

Responsible Manager: Budget Services Manager

POLICY

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DEFINITIONS

Allowable Costs – As defined by the OMB Circular A-87, “Cost Principles for State, Local, and Indian Tribal Governments,” costs must be *reasonable* and necessary for performance and administration of award; costs must be *allocable* (goods or services are charged to each cost objective in accordance with benefits received); costs must be *consistently treated* through application of Generally Accepted Accounting Principle(GAAP) (i.e., must be consistently applied as direct or indirect costs); costs

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must *conform* to laws, regulations, circulars, and grant agreements; costs must be *net of credits* that reduce or offset direct or indirect costs (i.e., purchase discounts, rebates, etc) – these refunds must be recorded against the costs that were incurred; and costs must be *documented* in accordance with the OMB Circular A-102 Common Rule for State, Local, and Indian Tribal Governments.

Fixed Asset – Land, buildings, infrastructure, improvements, machinery and equipment and all other tangible or intangible assets that are used in operations and have initial useful lives longer than one year and meet the River Authority’s capitalization threshold of \$5,000.

Grant – A contract reflecting a relationship between federal, state, local, or other entities and the River Authority in which the entities provide the River Authority with money, property, or services for the River Authority to accomplish a specified purpose. The money, property, or services granted to the River Authority are legally restricted to expenditures or uses for that specified purpose.

Grantee – Refers to the San Antonio River Authority.

Grantor – Funding agency or organization awarding money, property, or services to the River Authority for a particular purpose.

In Kind – Contributions of a reasonable value of property or services including River Authority staff services in lieu of cash contributed to a grant.

Indirect Cost – Activity under which the costs are incurred for a common or joint purpose, that benefit the activity generating direct costs and that also benefit more than one project and cannot, therefore, be directly identified with a specific project – for example, human resources’ staff is an indirect cost.

Matching – Costs incurred in the grant that are not borne from the grantor; it is the River Authority’s or required subgrantee’s contribution in time or dollars towards the grant.

ONESolution – River Authority’s financial accounting system. ONESolution is the River Authority’s system of record. All financial grant reporting must be derived from ONESolution.

Program Income – Income received by the River Authority or sub-grantee directly generated by a grant supported activity, or earned only as a result of the grant agreement during the grant period.

Subgrantee – An entity to which the grantee passes through a portion or all of the day to day operations of the grant for a specified time and dollar amount.

Tracked Property – Any asset purchased from grant funds that are managed and tracked in the River Authority’s financial and/or asset management systems and are not considered River Authority fixed assets.

Unallowable Activity – An activity that results in costs that do not meet the general criteria outlined in OMB Circular A-87 or the grant award. These unallowable costs are costs that do not provide a benefit to the grant program’s specific purpose or are considered not acceptable charges as a matter of public policy.

POLICY GUIDELINES

General Grant Guidelines

- A. Throughout the fiscal year, Support Services staff will support prospecting for and acquiring new grant funding. Grant opportunities are identified by staff throughout the organization. All grant opportunities need to be brought to the Support Services Division so that Support Services staff can help facilitate the process. Support Services staff will work to ensure that an identified grant opportunity advances the River Authority’s goals and objectives identified in the strategic plan and that it is used, whenever possible, to fund identified priorities from the annual budget development process. The grant proposal submitted by the River Authority should reflect the River Authority’s highest priority for an eligible, currently unfunded program, project or activity. This includes an on-going project that does not have funding for future phases or continuation of existing phases. To accomplish this, the grant opportunity needs to be evaluated from an organization-wide perspective. Support Services has responsibility for meeting this objective.
- B. The grant’s sponsor or subject matter expert will be responsible for developing the technical aspects of the grant application. Support Services staff will assist the sponsor or subject matter expert with writing or editing the proposal, as necessary, developing the grant budget and gathering other information required by the grant (e.g. organization’s bylaws, Board of Directors, audited financials, management structure, etc.). Once completed through this joint effort, Support Services will submit the grant and, if awarded, facilitate establishing the grant budget. Support Services will also provide assistance with grant compliance and reporting, submissions for reimbursement as well as grant close out.
- C. Support Services staff will work with the sponsor or subject matter expert for the individual grant submission to develop the materials and presentations that are provided to the Board of Directors. In general, the subject matter expert needs to provide the business case and resulting benefits for the grant proposal. Support Services staff will provide the fiscal and/or resources impact as well as any grant process or background information. Grant agenda items will be presented to the Board of Directors, whenever possible, prior to submission of the grant. The Board will be asked to authorize submission of the application, to accept the funds if awarded (this also authorizes establishing the grant budget if funds are awarded), and authorize the General Manager to negotiate and accept the terms of the grant application and execute amendments to the grant as needed. If a grant deadline precludes Board approval prior to submission, the

Board will be asked to ratify the submission, accept award and authorize the General Manager to execute documents and amendments. If the grant, as awarded, is substantially different from the original grant submission, the grant award must be taken to the Board of Directors for acceptance of the revised award. In all cases, grant awards will be reported to the appropriate Board Committee. All official grant award notices will be made to Support Services to ensure timely creation of the grant budget. Upon award, Support Services will provide support in acceptance, tracking compliance and ensuring reporting and close out procedures are completed.

- D. Support Services will conduct grant management duties in compliance with the rules and guidelines set forth by this policy, OMB Circular A-133 – Auditors of States, Local Governments and Non-Profit Organizations – when applicable, federal regulations under federal regulations 44 CFR and 2 CFR 225 App. B as applicable, Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards (also known as the Super Circular and codified as 2CFR 200), State of Texas Single Audit Circular when applicable, and any applicable provisions of the grant contract with the grantor.
- E. Support Services will monitor expenditures on a monthly basis to ensure compliance. The River Authority, through the Finance Department, will maintain effective control over all grant and subgrant cash, property and other assets. The River Authority will ensure adequate safeguards for all such property are established, enforced and that property is used solely for the authorized purposes.
- F. The River Authority may receive funds from grants in advance of payment for expenditures. The River Authority must obtain written permission from grantor to pre-draw funds for federal grants and for any other grants where the granting agency requires written permission. The time requirement for when these advance funds must be encumbered and disbursed varies by grantor. The River Authority must receive in writing from the grantor the time period in which funds received in advance must be spent for federal grants and for any other grant where the granting agency requires this action. Grant funds will be set up so that interest is earned and credited to the grant in the case of advances. For federal grants, interest earned on grant funds will be promptly (and at least quarterly) remitted to the federal agency providing the grant funds. The River Authority will keep up to \$100 per year in interest earnings on each federal grant for administrative expenses.

For federal grants, if a grant has funds available at the grant's year-end, the River Authority will either have written permission from the grantor as documentation for a carry-forward or will return the funds to the grantor.

- G. All grants have specific contract provisions, laws, regulations, or rules that must be followed. Most federal grants must follow certain compliance requirements. These requirements relate to Activities Allowed or Unallowed; Cash

Management; Financial Reporting; Equipment and Real Property Management; Matching/Cost Sharing Funds; In-Kind Contributions and Donated Services; Procurement; Program Income; Monitoring; Records Retention; and Travel. These requirements are described in further detail in this policy and in OMB Circular A-133. The then current OMB Circular A-133 Compliance Supplement to review is available to all departments who receive federal funds. The River Authority will adhere to all applicable, specific grant requirements from federal, state, local, or other entities.

- H. The River Authority may draw funds on their specific grants for incurred and paid expenditures not less than every thirty days, unless prohibited by the grantor. The General Fund may float grant expenditures up to thirty days, maximum. Constant monitoring of grants and draws by the River Authority will provide sound cash management practices and mitigate the possibility of incurring grant deficits due to funds not being drawn in a timely manner. Dated downloads or hard copies of financial data generated from ONESolution will be retained for documentation to support draw requests. Funds associated with a grant awarded to the River Authority must be deposited into the appropriate designated grant fund at all times.
- I. Required reports to the grantor(s) will be submitted timely and accurately. All financial information will be verified and will come from the River Authority's official financial records. Dated downloads or hard copies of financial data from ONESolution and reconciliation schedules will be retained for documentation to support submitted reports. Annual and final fiscal reports or vouchers for Federal grants will include a certification signed by an official authorized to legally bind the River Authority and will include the required wording.
- J. The Finance Department is responsible for reviewing and responding to any request from a grantor regarding overpayments. These issues will be responded to within five business days.
- K. Capital assets procured with grant dollars will be capitalized if above the River Authority's capitalization threshold. If the asset purchased is below the River Authority's capitalization threshold, the asset shall be recorded as tracked property. Refer to policy FN 0014 Fixed Asset Policy for details.

Activities and Allowable Costs

- A. The River Authority recognizes that activities and expenditures allowed (or not allowed) under a grant are unique to each federal, state or local grant and costs are determined by the laws, regulations, and provisions of contracts and grant agreements. The River Authority will adhere to all requirements related to each grant and will only expend funds for allowable activities. The River Authority acknowledges that, should funds be inadvertently spent for non-allowable activities, the River Authority may have to reimburse the grantor for costs related to those activities from available River Authority funds.

- B. The River Authority will only budget for and expend funds that are allowed under the grant, to include direct and indirect costs.
- C. The River Authority will include, when allowed and in accordance with the granting agency's requirements, indirect costs in grant submissions and requests for payment.
- D. Submissions for reimbursement of salaries and wages are based on records that accurately reflect the work performed.

Cash Management

- A. For reimbursement grants, the River Authority will have documented, paid program costs prior to requesting a reimbursement.
- B. The River Authority has established methods and procedures for payment that minimize the time between the receipt of grant funds and disbursement to the River Authority's vendor(s), in accordance with federal regulation 44 CFR Subpart C 13.20 (b) (7) and 13.21 (b).
- C. For grants where funds are provided as an advance:
 - 1. The River Authority will comply with all applicable regulations from the grantor.
 - 2. The River Authority will make drawdowns as close as possible to the time of making disbursements when advances are made by letter-of-credit or electronic transfer of funds.
 - 3. The River Authority will minimize the time elapsing between receipt of funds and disbursement of funds for expenditures. The River Authority will make payment within 30 days of receipt of an invoice and will work to make payment within 15 days of receipt.
 - 4. If the funds are provided to a subgrantee, the River Authority will monitor payments by the subgrantee and work to ensure payment within 30 days of receipt of an invoice.
 - 5. Interest earned on advances will be credited to the grant, will be properly reported and remitted in accordance with the specific grant agreement. For federal grants, interest earnings will be handled in accordance with General Grant Guidelines Section (C) above.

Equipment and Real Property Management

- A. Assets purchased with federal or state funds must adhere to River Authority Policy FN 0014 - Fixed Assets.
 - 1. An asset will be considered a fixed asset by the River Authority if it has a useful life of more than one year and it costs, individually, at least \$5,000.

- B. The River Authority will use equipment and real property purchased with federal grant funds solely for the original program/purpose for which it was acquired. The River Authority will not dispose of or encumber the equipment or property unless and until it is no longer needed for the originally authorized purpose. The River Authority will dispose of real property purchased with federal funds in one of the following manners, using the instructions provided by the awarding agency.
 - 1. Retention of Title – The River Authority will retain title after paying the awarding agency the appropriate amount. This amount will be computed by applying the awarding agency’s percentage of participation in the cost of the original purchase to the fair market value of the property. If the River Authority is acquiring replacement real property under the same program, the net proceeds from the disposition may be used to offset the cost of the replacement property.
 - 2. Sale of Property – The River Authority may sell the property and compensate the awarding agency by applying the awarding agency’s percent of participation in the cost of the original purchase to the proceeds of the sale. If the grant is still active, the net proceeds from the sale will be used to offset the original cost of the property. The River Authority will use a method of sale that provides competition whenever possible and results in the highest possible return.
 - 3. Transfer of Title – The River Authority may transfer title of the property to the awarding agency or to a third party approved by the awarding agency. The River Authority will be paid for the property by applying the River Authority’s percent of participation in the original purchase to the current fair market value of the property.

- C. Title to equipment and real property acquired with federal funds vests with the River Authority. Title requirements for state funded purchases relating to equipment and real property will be determined by the individual grant requirements.

- D. The River Authority will maintain equipment records that include a description, serial number or other identification number, the source of the property, where title is held, the acquisition date, the cost, the percentage of participation by the

granting agency in the cost of the property, the location, use and condition and any disposition data including the date and sale price.

- E. The River Authority will complete a physical inventory of equipment purchased with federal funds at least once every two years unless an alternate length is specifically stated in the grant the River Authority will reconcile inventory observations to equipment records and make changes to the records as needed.
- F. The River Authority has a control system in place to ensure adequate safeguards to prevent loss, damage or theft of property and will investigate and loss, damage or theft. The Finance Department is responsible for this system and any investigations.
- G. The River Authority will adequately maintain all grant acquired equipment and property.

In-Kind Contributions and Donated Services

- A. River Authority in-kind contributions reflect a reasonable value of property or services in lieu of cash. The River Authority will value contributions at the market value at the time of donation.
 - 1. The River Authority will value the use of donated equipment or space using the fair rental rate of the equipment or space.
- B. Donated or volunteer services may on occasion be furnished to the River Authority by professional and technical personnel, consultants, and other skilled and unskilled labor for the benefit of a grant activity. The River Authority may use their value either as a direct or indirect cost to help meet cost sharing or matching requirements as allowed by the individual grant.
 - 1. Unpaid services will be valued at rates consistent with those ordinarily paid for similar work at the River Authority either using employee rates for employees performing similar work or the rates will be consistent with those ordinarily paid by other employers for similar work in the same labor market if no River Authority employees do the same work. In either case, fringe benefits costs will be included in the valuation.

Matching/Cost Sharing Funds

- A. The River Authority will meet matching or cost sharing requirements by:
 - 1. Incurring allowable costs – either the River Authority or its subgrantee – including costs borne by non-federal grants or other cash donations from non-federal third parties. River Authority labor costs for staff time is a method of cost sharing/matching.

2. Third party in-kind contributions during the grant period.
 3. Using donated real property which will be valued at the current market value; however, for federal grants, only the non-federal share of the property will be counted as cost sharing or matching.
- B. The River Authority will not meet matching or cost sharing requirements for a federal grant using costs borne by another federal grant with the exception of income earned by the River Authority from a contract awarded under another federal grant.
- C. The River Authority will use costs and in-kind contributions only once within a single grant and will not use the same costs as a match for multiple grants or programs. The costs and in-kind contributions may be reflected in monthly billings/statements, but will only be charged one time to any grant or program.
- D. The River Authority will not use program income to satisfy a match requirement for a federal grant unless expressly permitted in the grant.
1. Contractors may earn income from activities carried out under the grant; however, no costs of services or property supported by this income will be counted toward satisfying a cost sharing or match requirement unless expressly permitted in the grant.
- E. The River Authority will maintain records so that costs and in-kind contributions can be verified. The records will show how the value was derived, including for volunteer services that will be valued using the same methods as used for regular personnel costs.
- F. The River Authority may use third party in-kind contributions to help satisfy a cost sharing or matching requirement when the payment for the services would be an allowable cost.
1. For federal grants, the River Authority will use third party in-kind contributions that would have been indirect costs as cost sharing or matching requirements only if the River Authority, its subgrantee(s) or contractor(s) has established, along with its regular indirect cost rate, a special rate for allocating to individual projects or programs the value of the contributions.
 2. For federal grants, the River Authority will use a third party in-kind contribution to a fixed price contract as part or all of a cost sharing or matching requirement only if it results in an increase in the services or property provided under the contract without additional cost and/or it results in a cost savings to the River Authority or subgrantee.

Monitoring

- A. The River Authority is responsible for managing the day-to-day operations of grant and subgrant supported activities. The Finance Department will monitor grant and subgrant supported activities to ensure compliance with all applicable federal, state and local grantors' requirements. The Finance Department will work with the grantor agency through all monitoring visits and/or financial/records audits and provide all information needed by the agency to effectively complete the review/audit. River Authority department(s) managing the grant activities must ensure that performance goals are achieved.
- B. Financial reports will be filed in a timely manner, will have supporting documentation and will have been reconciled to all River Authority financial records.
- C. The River Authority will report in writing in a timely manner to the Federal awarding agency or pass-through entity all known violations of Federal criminal law involving fraud, bribery or gratuity violations potentially affecting a Federal award.
- D. Performance reports will be filed in a timely manner and will compare the goals established versus actual accomplishments during the grant reporting period. Whenever possible, the River Authority will relate financial data to performance accomplishments and provide cost information to demonstrate cost effective practices. Details regarding any variance from established versus actual goals will be provided. This will include any information on cost overruns, if applicable.
- E. The Finance Department will ensure that financial/records audits are completed, when necessary, by an independent auditor in accordance with generally accepted accounting standards to comply, when applicable, with the Single Audit Act Amendments of 1996 (31 U.S.C. 7501-7507); 31 U.S.C. 503, 1111; Executive Order 8248; Executive Order 11541; and revised OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
 1. The River Authority will procure independent auditing services in accordance with federal regulation 44 CFR 13.36 and any other granting agencies' requirements.
 2. The River Authority will ensure that subgrantees expending the stated federal limit or more in federal awards in a fiscal year have met all audit requirements and are in compliance with federal regulation 44 CFR 13.26 (b).
 - a. The River Authority will adjust its own records as necessary based on the results of any subgrantee audit.

- b. The River Authority will require subgrantees to permit independent auditors to have access to their records and financial statements.
3. The River Authority will ensure that appropriate corrective action is taken within six months after receipt of the audit report in instance(s) of noncompliance with federal, state and local laws and regulations either by the River Authority or a subgrantee..

Program Income

- A. If program income is received by the River Authority, it will be applied as specified in the grant. This could be as a reduction to grant funding requested from the grantor, an addition to the program budget and/or to meet the match requirements of the grant. Program income will always be used to the benefit of the grant, not the River Authority. Income could be generated from fees, rental of property acquired with grant funds, sale of items or assets purchased with grant funds, and/or debt service on loans made with grant funds.
- B. The River Authority will provide documentation relating to program income to the independent auditors and the grantor(s).

Records Retention

- A. Records related to fiscal activity and other supporting documentation will be retained for a period of at least three years. The retention period is recognized to generally start at the close of the fiscal year covered by the grant. The River Authority will comply with all requirements in federal regulation 44 CFR 13.42.
- B. For pending, ongoing or unresolved litigation, audits, or claims, documentation will be retained for three years after completion, resolution, or negotiation of settlements and in compliance with federal regulation 44 CFR 13.42.
- C. Destruction of records must also be in accordance with policies and procedures of the Texas Local Government Records Act and River Authority policies and procedures.
- D. The awarding agency or any of their authorized representatives will have the right to access any pertinent books, documents, papers or other records of the River Authority and subgrantees pertinent to the grant.

Travel

- A. Travel costs are the expenses for transportation, lodging, subsistence, and related items incurred by personnel of the River Authority who are in travel status on authorized business. The River Authority will pay reasonable and necessary

travel expenses provided they are in compliance with River Authority policy FN 0011 and federal regulation 2 CFR Ch. II Pt. 225, App. B 43.

Procurement

- A. For purchases made with funds received from the federal government, the River Authority will verify the selected vendor has not been debarred or suspended from doing business with the federal government using website www.sam.gov prior to award of any federal contract, grant or subgrant.
 - 1. The River Authority will not make any award to any party that is excluded from or ineligible for participation in federal assistance programs when using federal funds.
 - 2. The River Authority will, to the extent practicable, distribute micro-purchases (where the aggregate dollar amount does not exceed \$3,000) equitably among qualified suppliers.
 - 3. The River Authority will ensure that contractors perform in accordance with the terms, conditions and specifications of the contract or purchase order.

- B. The River Authority will use its own procurement procedures and will comply with applicable federal, state and local laws and regulations. Refer to River Authority policy FN 0009 Purchasing Procedures for details.
 - 1. No employee of the River Authority shall participate in selection, or in the award or administration of a contract if a conflict of interest, real or apparent, would be involved. If a potential conflict is identified, the River Authority will disclose in writing the potential conflict to the Federal Awarding agency or pass-through entity in accordance with applicable Federal awarding agency policy. Such a conflict would arise when:
 - i. The employee, any member of his immediate family, his or her partner, or an organization which employs, or is about to employ, any of the above, has a financial or other interest in the firm selected for award.
 - 2. Employees will neither solicit nor accept gratuities, favors, or anything of monetary value from contractors, potential contractors, or parties to subagreements unless the financial interest is not substantial or the gift is an unsolicited item of nominal value.
 - 3. Any employee who fails to follow these guidelines may be subject to disciplinary action in accordance with the River Authority's employee policies.

C. Protest Procedures

1. The Purchasing Agent has the authority to settle or resolve any claim of an alleged protest of a recommended award. This includes but is not limited to protests of award or non-selection for award or other matters of a contractual or procurement nature as a result of a competitive bidding process. Protest procedures do not apply to proposals for professional services that are not procured through a competitive bidding process. The procedures for notifying the River Authority are listed below. If vendor fails to comply with any of these requirements, the protest may be dismissed.
 - i. Vendor must deliver a written notice of protest to the Purchasing Agent within seven calendar days of the posting of the recommendation of intent to award. If vendor does not file a written notice within this time, the vendor will have waived all rights to protest the recommended award. It is the vendor's responsibility to check the posted website.
 - ii. Grounds for Protest - Only protests alleging an issue concerning the following subjects shall be considered:
 1. Errors in computing tabulation or evaluation of bid.
 2. Violation of rules or statutes.
 3. Discrepancies with material differences or quality of items.
 - iii. Protest must be submitted in writing and must include the following information:
 1. The protestor's name, address, telephone number, email address, and fax number.
 2. The signature of the protestor or its representative.
 3. The item of protest.
 4. A detailed statement of the factual grounds for the protest and relief requested. Include all copies of any relevant documents.
 - iv. When the Purchasing Agent receives a timely written protest, the Purchasing Agent shall review the record of procurement for legitimacy and procedural correctness.
 - v. Based upon the nature of the protest the Purchasing Agent will convene an appropriate committee that will, within ten calendar days:

1. Perform a full review of the filed protest.
2. Convene a hearing if requested by protesting party.
3. Protestor may bring a representative to present information to support the factual grounds of the protest.
4. Protest committee meeting will be informal in nature and not subject to the open meeting act.
5. Notify the recommended awardee that a protest has been filed.
6. Make a decision and notify the Purchasing Agent of such decision.
7. The Purchasing Agent will notify protestor of the decision or any other course of action to be taken within ten calendar days and will provide the protester all relevant information.

2. Appeals Process

- i. If the protestor is still not satisfied with the response from the Purchasing Agent, vendor will then have five calendar days to appeal to the General Manager. The General Manager, or their designee, will review the appeal and render a decision. Such decision will be considered final with no further appeal process. The final decision of the General Manager, or their designee, regarding the bid protest will be incorporated in the Board of Directors items as part of the recommendation for award of the contract.

Approved



Suzanne B. Scott, General Manager

11/20/15

Date

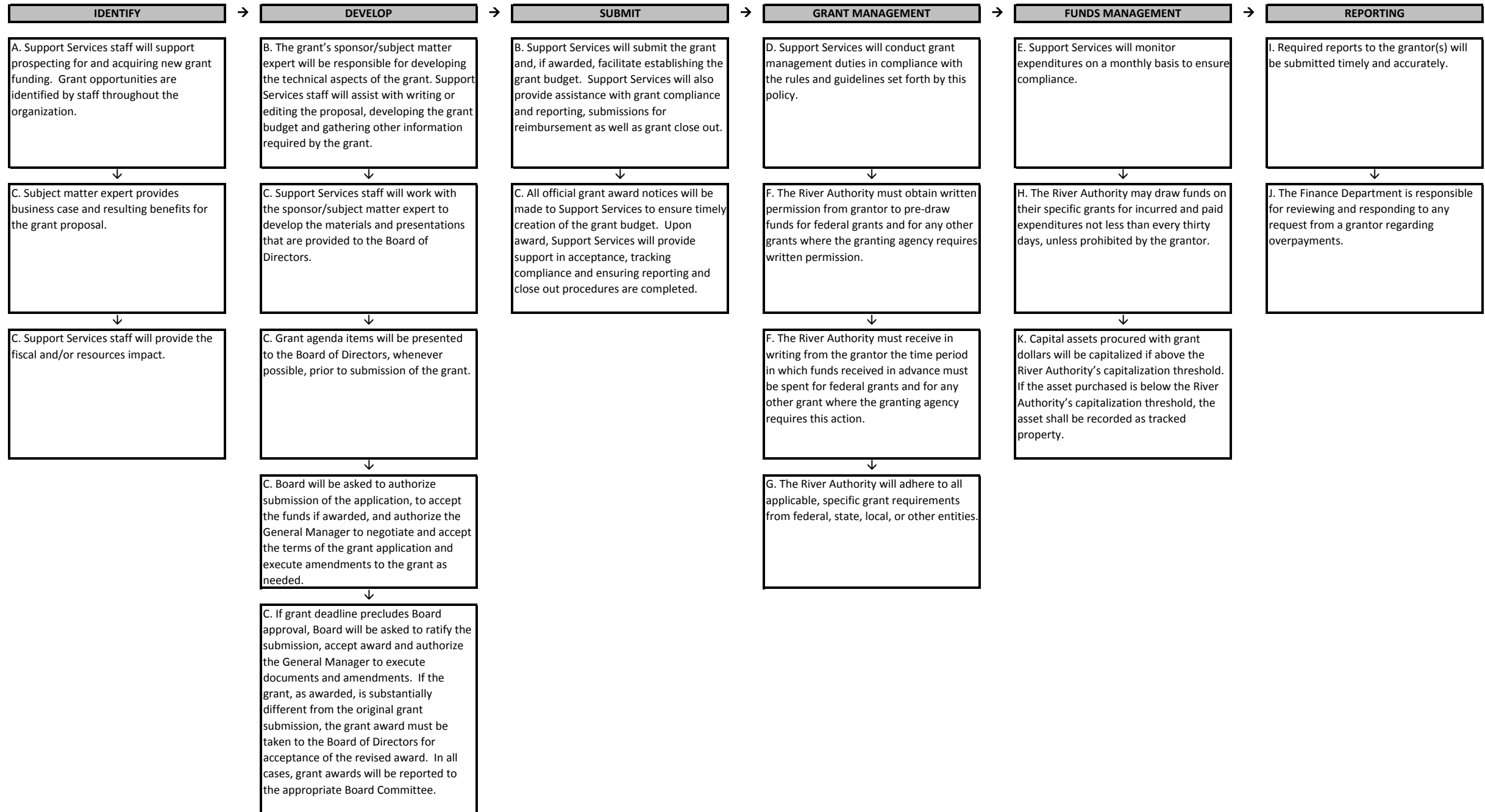
**GRANT WRITING PROCEDURES
FLOW CHART***


Notes:

Grant funds will be sought based upon:
 1. Annual strategic plan goals and objectives
 2. Unfunded priorities established through the annual budget process

Support Services Division is primarily responsible for:
 1. Facilitating the entire grant process
 2. Working with the sponsoring individual(s) or department(s) throughout the grant process

* Letters correspond to paragraphs found in the *Grants Management Procedures* document signed 11/20/15



	<p align="center">SAN ANTONIO RIVER AUTHORITY</p>	<p align="center">POLICY & PROCEDURE</p>	<p align="center">POLICY NUMBER: FN 0010</p>
<p>SUBJECT: Notes Receivable Policy</p>		<p>REPLACING POLICY NUMBER: n/a</p>	
<p>RESPONSIBLE MANAGER: Financial Services Manager</p>		<p>EFFECTIVE DATE: 4/18/2012 REVISED DATE: PAGE(S): 1 of 2</p>	

PURPOSE

Notes Receivable are assets of the San Antonio River Authority (River Authority). They represent money that the River Authority has loaned or contractual agreement for repayment to implement, improve, or act as a funding source for various programs. An agreement exists that specifies the repayment schedule, interest rate, and other terms and conditions, such as collateral.

Recording notes, loans, and interest receivables in the accounting system is required for all budgeted and unbudgeted revenues susceptible to accrual payments. The River Authority records receivables in the central accounting system.

To prevent financial loss to the River Authority notes receivable must be maintained and monitored carefully. Written policies and procedures for recording, collecting, and writing off bad debts must exist and be followed diligently.

DEFINITIONS

Uncollectible - The amount due cannot be collected because the debtor cannot be located or does not have the ability to pay the amount owed or the cost of collection exceeds the amount due.

Allowance for Doubtful Receivable Accounts – Management’s best estimate of the amount of probable credit losses and is determined based on various factors. Accounts are written off against the allowance when it is determined the receivable has become uncollectible.

Receivables - Amounts due from transactions with entities outside the River Authority.

Write-off - A mechanism to remove the uncollectible portion of a receivable from the accounting records. A write-off occurs when the amount due cannot be collected and management determines that it is no longer a valid receivable.

POLICY

The River Authority staff actively attempts to collect all payments and fees that are due to the River Authority. The Finance department will many times interact with the program departments to assist in past due balance collections. Creating a note receivable for the River Authority by disbursing funds shall follow written procedures for note creation and related collateral, payment, collection, write-off review, and write-offs.

The written procedure is to serve as a day-to-day guide for the River Authority's staff and be monitored for compliance. They include the following:

Approval

1. General standards used to determine if an entity qualifies for a loan. Standards should be flexible enough to permit some degree of judgment by the River Authority's Board of Directors and management.
2. An agreement including the amount of the loan, the payment plan and the specified interest rate; the general note terms, including any collateral position of assets purchased or other assets of value must be approved with a resolution and adopted by the River Authority's Board of Directors.

Maintenance

1. The Controller or designee of the River Authority shall be responsible for recording the note in the accounting system, for reviewing balances, and for reconciling the receivables at least quarterly.
2. The Controller or designee shall be responsible for maintaining the note, including: 1) method of calculating interest, 2) timing and frequency of statement mailings, 3) recording of advance payments, and 4) frequency of payments.
3. The Financial Services Manager shall report all note balances with the Quarterly Financial Report to the River Authority's Board of Directors and will highlight when receivables have become 4 months (120 days) overdue.
4. After the 120 days of non-payment, River Authority staff will record all attempts to make collection, notes shall be considered uncollectible after 2 years of non-payment or after management believes the note is uncollectible.
5. Notes may be written-off upon management assessment and reported to the River Authority's Board of Directors.

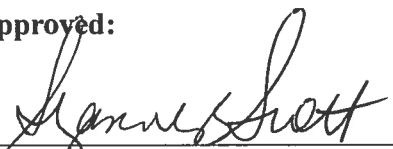
Collection

The Controller or designee shall notify the entity on overdue note accounts within 90 days of delinquency.

EXCLUSIONS

Water and wastewater payments – Utility customers
Property tax payments – Property owners

Approved:



Suzanne B. Scott, General Manager

4/18/2012

Date

Glossary

Accounting System: The total set of records and procedures which are used to record, classify and report information on the financial status and operations of an entity.

Accrual: Accounts on a balance sheet that represent liabilities, a non-cash-based asset used in accrual based accounting.

Activity: A specific unit of work or service.

Appropriation: An authorization adopted by the San Antonio River Authority Board of Directors (Board) which allows staff to incur obligations and make expenditures of governmental resources. An appropriation is typically granted for periods of one year or a project's life and specified for fixed amounts.

Assessed Valuation: An estimated value placed upon real and personal property by the appraisal districts as the basis for levying property taxes.

Assets: An economic resource. Tangible or intangible property owned by the San Antonio River Authority (River Authority) for which a monetary value has been set either through the purchase of the item, the assets have a set monetary value, such as cash, can be converted into cash or through a market assessment study.

Audit: A systematic examination of resource utilization. The audit is a test of management's internal accounting controls and is intended to verify financial positions and the legality of transactions; to identify improvements in accounting systems and accuracy and consistency of transactions; and to certify the stewardship of officials responsible for governmental funds.

Authorized Positions: All positions authorized by the Board for each office and department. This includes full time, part time and seasonal positions.

Balance Sheet: A statement purporting to present the financial position of the River Authority by disclosing the assets, liabilities, and fund balance as of a specified date.

Balanced Budget: A budget in which planned expenditures on personnel, goods, services and debt are met by income from taxation, user fees and other governmental receipts.

Base Budget: Ongoing expenses for personnel, contractual services, supplies, and equipment required to maintain the same level of service as previously authorized by the Board.

Best Management Practices (BMP): As defined by the Environmental Protection Agency, BMP's are schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Board of Directors: The twelve member elected board of the San Antonio River Authority. Four members are elected from four districts in Bexar County; two members are elected county-wide in Bexar County (at large); and two members are elected by each of the other three counties in the San Antonio River Authority's district – Karnes, Wilson and Goliad counties. The board members serve six year terms and there are no term limits. The chair and other officer and committee positions are selected by the Board.

Bond: Bonds are used as long-term debt instruments to pay for capital improvements. A bond is a written promise to pay a specified sum of money (principal) at a specified future date (maturity date), as well as periodic interest paid at a specified percentage of the principal (interest rate).

Bond Rating: The credit-worthiness of the River Authority's debt as evaluated by independent agencies.

Budget (Operating): A financial and operating plan approved by the Board to authorize levels of taxing, user charges and spending. The plan consists of an estimate of proposed expenditures or expenses for a fiscal year and an estimate of proposed revenues for the same period needed to provide River Authority services. The term is also used to identify the officially approved expenditure levels under which the River Authority and its departments operate.

Budget Calendar: The schedule of key target dates which the River Authority follows in the preparation and adoption of the budget.

Budget Document: An instrument or document presented by the River Authority's General Manager to the Board to describe the level of taxing, user charges, spending and the level of services to be provided during a certain fiscal year to the citizens of the district. The document is a comprehensive financial program.

Budget Letter: It is a communication from the River Authority's General Manager to the Board and the citizens of the district regarding recommendations relating to those issues that they believe will affect the community. It is the general discussion of the proposed budget presented in writing as a part of the budget document.

Budgeted Revenue: The amount of projected revenue to be collected during the budget fiscal year.

Capital Assets (Fixed Assets): Assets of significant value (\$5,000 or greater individually) which have a useful life of more than one year.

Capital Expenditures: The expenditure group used to fund capital purchases such as furniture, computers, vehicles and heavy equipment where the individual item costs more than \$5,000. Purchases made from the capital expenditures group become fixed assets of the River Authority.

Capital Improvement Program - CIP: A multi-year plan for capital project expenditures which sets forth each proposed capital project, identifies the expected cost for each project and the amount to be expended on the improvement.

Capital Improvements Project Activity: A Capital Improvements Project Activity is one of the following groups of actions usually undertaken in a capital improvements project: planning, design and engineering; right-of-way acquisition; construction; and the purchase of equipment.

Carry Forward Balance: The difference of revenues and expenditures within the same fund transferred to fund balance from one fiscal year to the next.

Cash Management: The management of cash necessary to fund government services while investing available cash to earn interest revenue. Cash management refers to the activities of forecasting the inflows and the outflows of cash, mobilizing cash to improve its availability for investment, establishing and maintaining banking relationships, and investing funds to achieve the highest interest and return available for temporary cash balances.

Commodities: Items of expenditure which, after use, are consumed or show a material change in their physical condition. Commodities are generally of limited value and are characterized by rapid consumption (i.e.: office supplies, motor fuel, etc.).

Contingencies: The expenditure group that includes all funding such as undesignated funds and monies set aside for salary increases.

Contingency: A budgetary reserve set aside for emergencies or unforeseen expenditures.

Contractual Services: Items of expenditure from services the River Authority receives from an outside company through a contractual agreement.

Current Taxes: Property taxes that are levied and due within one year.

Debris: The remains of something broken down or destroyed that is in the river and/or its tributaries that needs to be removed.

Debt Service: The obligation to pay the principal and interest of all bonds and other debt instruments according to a pre-determined payment schedule.

Delinquent Taxes: Taxes which are unpaid after the due date, in which a penalty is assessed for non-payment.

Department: A major administrative division of the River Authority that indicates overall management responsibility for the operation of a group of related functions.

Depreciation: Expiration in the service life of capital assets attributable to wear and tear, deterioration, physical elements, inadequacy, or obsolescence. Depreciation is also the portion of the cost of a capital asset which is charged as an expense during a particular accounting period. Depreciation is applied to assets in enterprise funds and internal service funds.

Encumbrances: Obligations in the form of purchase orders, contracts, or other commitments which are reserved in specified appropriations. Encumbrances cease to exist when an invoice is paid or when an actual liability is established.

Enterprise Fund: A fund used to account for operations that are financed and operated in a manner similar to private business enterprises where the intent of the governing body is to recover the cost of providing goods or services through fees. Rate schedules for these services are established so that revenues are adequate to meet all necessary expenses including debt service for capital costs.

Estimate: The estimated actual expenditures and revenues for the fiscal year prior to the end of the budget fiscal year. Used to determine the Carry Forward Balance.

Expenditure Group: A grouping of like expenditures used to exercise budgetary control. For example, the Personnel Expenditures group includes salaries, social security and Medicare, retirement, group health insurance, group life insurance and workers compensation. A department can over run an individual line item as long as the expenditure group remains within budget.

Expenditures: The cost of goods and services rendered.

Fiscal Year: The time period designated by the River Authority signifying the beginning and ending periods for recording financial transactions. The River Authority has designated July 1 to June 30 as its fiscal year.

Flow Meter: A device used to measure the flow rate or quantity of a gas or liquid moving through a pipe. The San Antonio River Authority uses flow meters to measure wastewater flow.

Fund: An independent fiscal and accounting entity with a self-balancing set of accounts, identifiable revenue sources and expenditures. Funds are segregated for the purpose of completing specific activities or attaining certain objectives.

Fund Balance: The excess of an entity's revenues over expenditures and encumbrances since the inception of the fund. This number should equal the difference between the revenues and the expenditures reported in a governmental fund. This fund balance is available for emergencies or unforeseen expenditures when appropriated by the Board.

Geographic Information Systems (GIS): Used to visualize, question, analyze, and interpret data to understand relationships, patterns, and trends. Includes data collection, geospatial tool development and spatial analysis to support decision making and complex problem solving.

Governmental Accounting Standards Board – GASB: The current source of generally accepted accounting principles used by state and local governments as well as the River Authority in the United States. GASB is a private, non-governmental organization.

General Fund: The largest fund within the River Authority, the General Fund accounts for most of the financial resources of the government which may be used for any lawful purpose. General

Fund revenues include property taxes, charges for services, support fees and other types of revenue. The General Fund usually includes most of the basic operating services.

Governmental Fund: Funds used to account for all or most of the River Authority's general activities and services.

Inflow and Infiltration (I&I): Water entering sanitary sewers from inappropriate connections is *inflow*. Typical sources include sump pumps, roof drains, cellar drains, and yard drains where urban features prevent surface runoff, and storm drains are not conveniently accessible or identifiable.

Groundwater entering sanitary sewers through defective pipe joints and broken pipes is *infiltration*. Pipes may leak because of careless installation; they may also be damaged after installation by differential ground movement, heavy vehicle traffic on roadways above the sewer, careless construction practices in nearby trenches, or degradation of the sewer pipe materials. In general, volume of leakage will increase over time. Damaged and broken sewer cleanouts are a major cause of infiltration. Infiltration will occur where local groundwater elevation is higher than the sewer pipe.

Intergovernmental Revenue: Revenue received from another government for a specified purpose.

Internal Service Fund: Funds utilized to account for the financing of goods or services provided by one department or office to other departments or offices within a government. The Insurance Fund is the River Authority's only internal service fund.

Investment: Securities and real estate purchased and held for the production of income in the form of interest, dividends, rentals, or base payments received.

Liability: Debt or other legal obligations arising out of transactions for goods and services received in the past which must be liquidated, renewed, or refunded at some future date. A liability does not include encumbrances.

Litter: Trash, such as paper, cans, and bottles that are left lying in an open or public place

Long-Term Debt: Debt amount with maturity of more than one year.

Low Impact Development (LID): Systems and practices that use or mimic natural processes that result in the infiltration, evapotranspiration or use of stormwater to protect water quality and associated aquatic habitat.

Maturities: The dates on which the principal or stated values of investments or debt obligations mature and may be reclaimed.

Major Fund: Any fund that the River Authority believes to be of particular importance to the users of the financial statements either because of the nature of the fund or because it meets the

“size” criteria set by GASB. The General Fund, by definition, is reported as and/or considered a major fund. If any fund meets the “size” criteria it should be designated as a major fund. It states:

- 1) Ten percent criterion: An individual fund that reports at least 10 percent of any of the following:
 - a. Total government fund assets
 - b. Total government fund liabilities
 - c. Total government fund revenues
 - d. Total government fund expenditures

- 2) Five percent criterion: An individual governmental fund reports at least 5 percent of the aggregate total for both governmental funds and enterprise funds of any one of the items for which it met the 10 percent criteria.

New Resources: Requests submitted by departments during the budget preparation process to change the level of service or method of operation. Generally, these requests are for additional resources including personnel, but may take the form of program reductions or elimination.

OPEB: Other Post-Employment Benefits which are accounting and financial reporting provisions requiring government employers (under GASB) to measure and report the liabilities associated with other (than pension) post-employment benefits. A major category of OPEB is retiree medical insurance benefits.

Operating Expenditures: The expenditure group that includes all payments for services. Examples of expenses included in this group are: postage, utilities, professional services, supplies, parts, and vehicle repair and maintenance.

Operating Funds: Resources derived from recurring revenue sources used to finance ongoing operating expenditures.

Operating Reserve: The Operating Reserve is available, if necessary: to cover unexpected expenditures and/or revenue shortfalls; to react to unforeseen and/or extraordinary occurrences (for example a flood); to provide sufficient cash flow for operations, to protect the River Authority’s strong financial position, to weather economic downturns, or for other appropriate needs as determined by the Board of Directors.

The River Authority’s General Fund and all utility system(s) operating funds will set a target to maintain a minimum of 25 percent (three months) of the annual budgeted operating expenses as an operating reserve. Operating expenses to be included in the determination of the appropriate level of the reserve include personnel and operating supplies and contracts. Expenses not included in the reserve calculation are project related expenditures and transfers to other funds. The Operating Reserve will have as a target maintaining a reserve at 25 percent of the annual budgeted operating expenses as defined here and will be fully funded before any other fund balance reserves are increased. However, commitments to repay other fund balance reserves will be met regardless of the current balance in the Operating Reserve.

Performance Measures: Specific quantitative measures of work performed within an activity or program. Types of performance indicators include workload, efficiency (output), effectiveness (outcome) and productivity indicators.

Personnel Expenditures: The expenditure group that includes all personnel related costs such as salaries, social security and Medicare, retirement, group health insurance, group life insurance and workers compensation premiums.

Reconciliation: A detailed summary of increases and decreases in departmental expenditures from one budget year to another.

Reserve: An account used to indicate that part of a fund's assets are legally reserved for a specific purpose.

Resources: Total dollars available for appropriations including estimated revenues, fund transfers, and beginning fund balances.

Retail Wastewater System: Wastewater collection and treatment services provided to the ultimate consumer for compensation.

Revenue: The funds collected by a government.

Revenue Bonds: Government-issued bonds which do not pledge the full faith and credit of the jurisdiction, and must therefore rely on operating revenues other than property taxes to repay the bonded indebtedness. These bonds are used by the River Authority's wastewater utility.

Revenue Estimate: A formal estimate of how much revenue will be earned from a specific revenue source for the upcoming budget period.

Risk Management: An organized attempt to protect a government's assets against accidental loss.

Shortfall: The excess of expenditures over revenues during a single accounting period.

Storm Water: Storm water is water that originates during precipitation events and snow/ice melt. Storm water can soak into the soil (infiltrate), be held on the surface and evaporate, or run off and end up in nearby streams, rivers, or other water bodies (surface water).

Tax Levy (Property): The total amount to be raised by general property taxes for operating purposes.

Tax Rate (Property): The amount of tax levied for each \$100 of assessed valuation.

Tax Rate Limit: The maximum legal property tax rate at which the River Authority may levy a tax. For the River Authority, this is statutorily set at 2 cents per \$100 of assessed valuation.

Tax Increment Reinvestment Zone – TIRZ: Economic development tool used to foster development. Developer pays for and constructs public infrastructure and is then reimbursed for the expenditure once the commercial activity within the designated zone generates sufficient revenue to support repayment either through current revenues or debt issuances.

Transfers: The expenditure group used to account for transfers between funds.

Trash: Discarded matter; refuse.

Unrestricted Reserve: The River Authority maintains reserve funds that can be used for purposes that assist the River Authority’s mission. This may include funding projects and asset acquisition. These funds’ use includes but is not limited to: completing capital projects, funding studies, purchasing assets, and executing loans to move projects forward sooner as well as other activities approved by the River Authority Board of Directors. These funds should be used to support the River Authority’s strategic plan goals and objectives. Use of these funds is at the discretion of the River Authority Board of Directors. This reserve is accounted for in a fund separate from the General Fund.

Wastewater: Water that has been used in the home, in a business, or as part of an industrial process. Wastewater can originate from a combination of domestic, industrial, commercial or agricultural activities, surface runoff or stormwater, and from sewer inflow or infiltration.

Wastewater Collection System: These systems gather the used water from homes, businesses and industries and convey it to a wastewater treatment plant. This type of system is also called a sanitary sewer system.

Wastewater Treatment Plant: A facility that provides wastewater treatment which is a process used to convert wastewater - which is water no longer needed or suitable for its most recent use - into an effluent that can be either returned to the water cycle with minimal environmental issues or reused.

Water Reuse: Reusing treated wastewater for beneficial purposes such as agricultural and landscape irrigation, industrial processes, toilet flushing, and replenishing a ground water basin (referred to as ground water recharge). Water recycling offers resource and financial savings.

Wholesale Wastewater System: Collects and treats wastewater on behalf of another public entity who is not the ultimate consumer of the services; does not provide service connections or billing to the individual end user. For the San Antonio River Authority, the wholesale customers are small municipalities.

Yield: The rate earned on an investment based on the price paid for the investment.



SAN ANTONIO

RIVER AUTHORITY

Leaders in Watershed Solutions



Abbreviations & Acronyms

AFB	–	Air Force Base
BBASC	–	Basin and Bay Stakeholder Committee
BCCIP	–	Bexar County Capital Improvement Program
BMPs	–	Best Management Practices
BRWM	–	Bexar Regional Watershed Management
BST	–	Bacterial Source Tracking
CRP	–	Clean Rivers Program
CTP	–	Cooperating Technical Partners
DFIRM	–	Digital Flood Insurance Rate Map
EAA	–	Edwards Aquifer Authority
EDYS	–	Ecosystem Dynamic Simulation
EGIS	–	Enterprise Geographical Information System
FEMA	–	Federal Emergency Management Agency
FWRS	–	Flood Warning and Response System
GIS	–	Geographic Information System
GPD	–	Gallons per Day
GWSW	–	Ground Water Surface Water
HEC	–	Hydrologic Engineering Center
IBI	–	Index of Biotic Integrity
ICM	–	Integrated Catchment Modeling
IGCR	–	Intergovernmental/Community Relations
ILA	–	Interlocal Agreement
LEED	–	Leadership in Energy and Environmental Design
LID	–	Low Impact Development
LIDAR	–	Light Detection and Ranging
LOMR	–	Letter of Map Revision
LSAR	–	Lower San Antonio River
MGD	–	Million Gallons per Day
MROC	–	Mission Reach Operations Center
NCD	–	Natural Channel Design
NPS	–	National Park Service
NRCS	–	Natural Resources Conservation Service
O&M	–	Operations and Maintenance
PCB	–	Polychlorinated biphenyls
QA/QC	–	Quality Assurance/Quality Control
RFP	–	Request for Proposal
RFQ	–	Request for Qualifications
RO	–	Reverse Osmosis
RWRDG	–	Regional Water Resource Development Group
SACIP	–	San Antonio Capital Improvement Projects
SAHA	–	San Antonio Housing Authority
SAR	–	San Antonio River
SARA	–	San Antonio River Authority (the River Authority)
SARB	–	San Antonio River Basin
SARIP	–	San Antonio River Improvements Project
SCADA	–	Supervisory Control and Data Acquisition
SCTRWPG	–	South Central Texas Regional Water Planning Group
SR	–	Stream Restoration
TBL	–	Triple Bottom Line
TCEQ	–	Texas Commission on Environmental Quality
TIF	–	Tax Increment Financing
TIRZ	–	Tax Increment Reinvestment Zone
TWDB	–	Texas Water Development Board
TxDOT	–	Texas Department of Transportation
UDC	–	Unified Development Code
USACE	–	US Army Corps of Engineers
USDA	–	US Department of Agriculture
USGS	–	US Geological Survey
WSC	–	Water Supply Corporation
WSM	–	Watershed Management
WSMP	–	Watershed Master Plan
WSO	–	Watershed Operations
WW	–	Wastewater
WWTP	–	Wastewater Treatment Plant



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