#### **RESOLUTION NO. 20-**

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FORT LAUDERDALE, FLORIDA, DECLARING THE INTENT TO IMPOSE A STORMWATER MANAGEMENT ASSESSMENT IN THE CITY OF FORT LAUDERDALE: PROVIDING A LEGAL DESCRIPTION OF THE PROPERTY SUBJECT TO THE SPECIAL ASSESSMENT: DESCRIBING THE METHOD OF APPORTIONING THE ASSESSED COST. THE COMPUTATION OF THE ASSESSMENT FOR EACH PARCEL. THE MANNER IN WHICH THE SPECIAL ASSESSMENT SHALL BE MADE, WHEN THE ASSESSMENTS ARE TO BE PAID, AND WHAT IF ANY PART SHALL BE APPORTIONED TO BE PAID **FROM GENERAL** IMPROVEMENT FUND OF THE CITY OF FORT LAUDERDALE. FLORIDA; DIRECTING THE PREPARATION OF ASSESSMENT ROLL; AUTHORIZING A PUBLIC HEARING AND DIRECTING THE PROVISION OF NOTICE THEREOF: AND PROVIDING AN EFFECTIVE DATE.

WHEREAS, on June 16, 2020, the City Commission of the City of Fort Lauderdale, Florida ("City Commission") adopted Ordinance No. C-20-18 authorizing the City Commission to impose a stormwater management program assessment to fund all or any portion of the planning, construction, operation, maintenance, and administration of a public stormwater management system upon benefited parcels at a rate of assessment based on the special benefit accruing to such parcel from the provision of a stormwater management program; and

WHEREAS, pursuant to Ordinance No. C-20-18 the imposition of stormwater management program assessments requires certain processes such as notice and the preparation of the Assessment Roll; and

WHEREAS, the City of Fort Lauderdale is required to adopt an Initial Assessment Resolution describing the property to be located within the proposed Stormwater Management System Benefit Area; (B) describing the Stormwater Management Program proposed for funding from proceeds of the Assessments; (C) estimating the Stormwater Management Program Cost; (D) describing with particularity the proposed method of apportioning the Stormwater Management Program cost among the parcels of property located within the proposed Assessment Area, such that the owner of any parcel of property can objectively determine the number of Assessment Units and the amount of the Assessment; (E) describing the provisions, if

any, for acceleration and prepayment of the Assessment; (F) describing the provisions, if any, for reallocating the Assessment upon future subdivision or other changes in condition that affects the method of apportioning the Capital Cost or Project Cost; and (G) including specific legislative findings that recognize the fairness provided by the apportionment methodology by Ordinance No. C-20-18, as amended, for the imposition of the Stormwater Management Program Assessments; and

WHEREAS, the City Commission of the City of Fort Lauderdale, Florida, deems it to be in the best interest of the citizens and residents of the City of Fort Lauderdale to adopt this Initial Assessment;

BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF FORT LAUDERDALE, FLORIDA:

## ARTICLE I AUTHORITY, DEFINITIONS AND GENERAL FINDINGS

<u>SECTION 1.01</u>. AUTHORITY. This Resolution is adopted pursuant to the provisions of Ordinance No. C-20-18 codifying Article IV, Chapter 28 of the City of Fort Lauderdale Code of Ordinances entitled "Stormwater Management Program" (hereinafter referred to as "Ordinance"), Sections 166.021 and 166.041, Florida Statutes, and other applicable provisions of law.

SECTION 1.02. PURPOSE AND DEFINITIONS. This Resolution constitutes the Initial Assessment Resolution as defined in the Ordinance. All capitalized words and terms not otherwise defined herein shall have the meanings set forth in the Ordinance. Unless the context indicates otherwise, words imparting the singular number include the plural number, and vice versa; the terms "hereof," "hereby," "herein," "hereto," "hereunder" and similar terms refer to this Resolution; and the term "hereafter" means after, and the term "heretofore" means before, the effective date of this Resolution. Words of any gender include the correlative words of the other gender, unless the sense indicates otherwise. As used in this Resolution, the following terms shall have the following meanings, unless the context hereof otherwise requires:

"Annual Administration and Collection Cost Amount" means the amount computed for each Fiscal Year pursuant to Section 2.04(A)(2) hereof.

"Annual Assessed Costs" means the amount computed for each Fiscal Year pursuant to Section 2.04(A) hereof.

"Annual Debt Service Amount" means the amount computed for each Fiscal Year pursuant to Section 2.04(A)(1) hereof.

"Annual Statutory Discount Amount" means the amount computed for each Fiscal Year pursuant to Section 2.04(A)(3) hereof.

"Assessed Property" means those Tax Parcels within the Stormwater Management System Benefit Assessment Area.

"Assessment" shall have the meaning set forth in the Ordinance.

"Assessment Area" shall have the meaning set forth in the Ordinance.

"Assessment Roll" shall have the meaning set forth in the Ordinance.

"Billing Unit" shall mean Equivalent Benefit Unit.

"Capital Cost" means all or any portion of the expenses that are properly attributable to Stormwater Management Program Assessments under generally accepted accounting principles; and including reimbursement to the City for any funds advanced for Capital Cost and interest on any interfund or intrafund loan for such purposes.

"Category I" means any lot or parcel developed exclusively for residential purposes limited to, single-family homes, manufactured homes, multifamily, apartment buildings and condominiums designed to accommodate three (3) or fewer dwelling units.

"Category II" means any developed lot or parcel not in Category I or Category III, as defined herein.

"Category III" means property which is undeveloped or not significantly altered from its natural state by the addition of improvements such as buildings, structures, impervious surfaces, changes of grade, or landscaping, including but not limited to, vacant property, parks, airports, golf courses and well fields. For purposes of this article, a property shall be considered developed upon issuance of a certificate of occupancy, or upon completion of construction or final inspection if no such certificate is issued.

"City" means the City of Fort Lauderdale, Florida.

"City Commission" means the City Commission of the City of Fort Lauderdale, Florida.

"City Clerk" means the official custodian of all City records and papers of an official character, or such person's designee.

"City Manager" means the City's Manager of the City of Fort Lauderdale, Florida, or such person's designee.

"Cost Apportionment" means the apportionment of the Stormwater Management Annual Assessed Costs among all Property Use Categories according to the Demand Percentages established pursuant to the apportionment methodology described in Section 2.04(B) of this Declaration Resolution.

"DOR Code" means a Department of Revenue property use code established in Rule 12D-8.008, Florida Administrative Code, assigned by the Property Appraiser to Tax Parcels within the City.

"Dwelling Unit" means (1) a Building, or a portion thereof, available to be used for residential purposes, consisting of one or more rooms arranged, designed, used, or intended to be used as living quarters for one family only, or (2) the use of land in which lots or spaces are offered for rent or lease for the placement of mobile homes, travel trailers, or the like for residential purposes.

"Equivalent Benefit Units" means a weighted measure of benefit to a tax parcel from the Stormwater Management Program.

"Fiscal Year" means the period commencing on October 1 of each year and continuing through the next succeeding September 30, or such other period as may be prescribed by law as the fiscal year for the City.

"Initial Assessment Resolution" means the resolution described in Section 25-129.5 of the Ordinance, which shall be the initial resolution for the identification of the total stormwater management services assessed cost for which an assessment is to be made, the imposition of an assessment and the date set for a public hearing to consider a final assessment resolution.

"Ordinance" means Ordinance No. C-20-18 Stormwater Management Ordinance.

"Parcel Apportionment" means the further apportionment of the Annual Assessed Costs allocated to each EBU by the Cost Apportionment among the Tax Parcels under the methodology established in Section 2.04(C) of this Declaration Resolution.

RESOLUTION NO. 20-

"Property Appraiser" means the Broward County Property Appraiser.

"Property Use Categories" mean, collectively, Residential Property and all categories of Non-Residential Property.

"Tax Collector" means the Broward County Department of Finance and Administrative Services as described in Section 3.06 of the Broward County Charter.

"Tax Parcel" means a parcel of property located within the City to which the Property Appraiser has assigned a distinct ad valorem property tax identification number.

"Tax Roll" means the real property ad valorem tax assessment roll (and any records maintained in connection therewith) maintained by the Property Appraiser for the purpose of the levy and collection of ad valorem taxes as of the October 1 preceding the calculation of the Stormwater Management Assessments hereunder.

"Uniform Assessment Collection Act" means Sections 197.3632 and 197.3635, Florida Statutes, or any successor statutes authorizing the collection of non-ad valorem assessments on the same bill as ad valorem taxes, and any applicable regulations promulgated thereunder.

# SECTION 1.03. GENERAL FINDINGS. It is hereby ascertained:

- (A) Pursuant to Article VIII, Section 2(b) of the Florida Constitution, and Sections 166.041, Florida Statutes, the City Commission has all powers of local self-government to perform municipal functions and to render municipal services except when prohibited by law; and such power may be exercised by the enactment of legislation in the form of City ordinances.
- (B) The City Commission may exercise any governmental, corporate, or proprietary power for a municipal purpose except when expressly prohibited by law, and the City Commission may legislate on any subject matter on which the Legislature may act, except those subjects described in (a), (b), (c), and (d) of Section 166.021(3), Florida Statutes. The subject matter of paragraphs (a), (b), (c), and (d) of Section 166.021(3), Florida Statutes, is not relevant to imposition of assessments related to Transportation Improvements within the City.
- (C) The City Commission adopted the Ordinance, the purpose of which is to: (1) create and establish a stormwater management program, which will be the operational means of implementing and carrying out the functional requirements of the stormwater management

system,; (2) provide procedures and standards for the imposition of stormwater management program assessment pursuant to F.S. Section 403.0893 and under the general home rule powers of a municipality to impose special assessments; (3) authorize a procedure for the funding of the stormwater management program providing special benefits to property within the city; and (4) legislatively determine the special benefit provided to assessed property from the provision of the provision of the stormwater management program.

- (D) The stormwater management program assessments to be imposed using the procedures provided in the Ordinance shall constitute non-ad valorem assessments within the meaning and intent of the Uniform Assessment Collection Act.
- (E) The stormwater management program assessments to be imposed using the procedures provided in the Ordinance are imposed by the City Commission, not the Broward County Board of County Commissioners, Property Appraiser or Tax Collector. The duties of the property appraiser and tax collector under the provisions of this Section 28-211 of the Ordinance and the Uniform Assessment Collection Act are ministerial.
- (F) Each parcel of Assessed Property located within the City benefit from the City's stormwater management program and collectively constitute a Stormwater Management System Benefit Area under the Ordinance and the Stormwater Management System Benefit Area, as described in Section 2.01 hereof.
- (G)The benefits outlined in Section 28-192 of the Ordinance can be organized into two general categories of benefits as follows:
  - (1) Improved management water quantity
    - a. flood management; and
    - b. collect, transport, and convey stormwater into receiving bodies efficiently
  - (2) Improved management of water quality
    - a. reduce the pollutant loading; and
    - b. treatment
- (H) Based upon the foregoing, all property located within the Stormwater Management System Area will derive a special benefit from the Stormwater Management Program. Accordingly, the City Commission hereby finds it reasonable to apportion the Stormwater Management Program Cost among all tax parcels within the Stormwater Management System Benefit Area as set forth in Section 2.04(B).

### ARTICLE II ASSESSMENT

<u>SECTION 2.01.</u> DESCRIPTION OF STORMWATER MANAGEMENT SYSTEM BENEFIT AREA. The Stormwater Management System Benefit Area shall include all tax parcels within the City.

SECTION 2.02. IMPOSITION OF STORMWATER MANAGEMENT PROGRAM ASSESSMENTS. Stormwater Management Program Assessments shall be imposed against all Tax Parcels within the City. Stormwater Management Program Assessments shall be computed in the manner set forth in this Resolution. The Annual Assessed Cost to be assessed and apportioned among benefitted tax parcels pursuant to the cost apportionment and the parcel apportionment for Fiscal Year commencing October 1, 2020, is the amount determined in the Assessment Cost Allocation, attached hereto as Appendix A. When imposed, the Stormwater Management Program Assessments for each Fiscal Year shall constitute a lien upon such Tax Parcels pursuant to the Ordinance and shall be collected on the ad valorem tax bill in the manner authorized by the Uniform Assessment Collection Act.

SECTION 2.03. COMPUTATION OF STORMWATER MANAGEMENT PROGRAM ASSESSMENTS. For each Fiscal Year in which Obligations remain outstanding, on or before the July 1 preceding each Fiscal Year and based upon the Tax Rolls as of October 1 preceding each Fiscal Year, Stormwater Management Program Assessments shall be computed in the following manner:

- (A) ANNUAL ASSESSED COSTS. The "Annual Assessed Costs" shall be computed for each Fiscal Year as the sum of (1) the Operational Revenue Amount, (2) Annual Statutory Discount Amount, (3) Tax Collector Fee, and (4) Non-Collection Contingency.
  - (1) The "Operational Revenue Requirement" shall be computed for each Fiscal Year as the amount of money that the City needs to cover expected operating and capital costs of the Stormwater Management Program.
  - (2) The "Annual Statutory Discount Amount" shall be computed for each Fiscal Year as the amount allowed by law as the maximum discount for early payment of ad valorem taxes and non-ad valorem assessments plus one percent, currently estimated to equal three percent (3%) of the sum of Operational Revenue Requirement.

(3) The "Tax Collector Fee" shall be standard tax collector fee of 2% of the operational revenue requirement.

- (4) The "Non-Collection Contingency" shall be 1% of the operational revenue requirement
- (B) ANNUAL ASSESSED COSTS APPORTIONMENT METHODOLOGY.
  - (1) The Annual Assessed Costs shall be apportioned each Fiscal Year to specially benefitted Tax Parcels based upon the net effective impervious area and trip generation attributable to each Tax Parcel in the manner hereinafter described and adapted from City of Fort Lauderdale, Florida FY2021 Stormwater Fee Study Final Report prepared by Stantec, dated May 25, 2020 ("Fee Study") also described in Appendix B attached hereto.
  - (2) It is fair and reasonable to determine the degree of benefit between affected tax parcels through two primary categories of benefit -- 1) improved management of stormwater quantity, and 2) improved management of stormwater quality, -- as these categories reflect the overall proportional special benefits that properties will receive from the stormwater management program.
  - (3) It is fair and reasonable to split the Annual Assessed Cost of the Stormwater Management Program among the two special benefit components based upon two primary service functions in proportion to the percentage of the stormwater management program budget allocated to each, stormwater quantity (concerned with flood management and ensuring that the stormwater system can collect, transport, and deposit stormwater into receiving bodies efficiently) approximately 80% of the budget and stormwater quality (reduce the pollutant loading of the waters transported through its systems to local water bodies ) approximately 20% of the budget.
  - (4) Net effective impervious area is a measurement of the quantity of stormwater generation of a tax parcel. Net effective impervious area of property served by the Stormwater Management Program is determined by applying an intensity of development factor to the aggregate gross area of parcels by Department of Revenue (DOR) land use in the city. The net effective impervious area is distributed among three customer classifications based on the relative effective impervious area associated with each DOR land use type specifically assigned to one of three customer classifications. The three customer classifications are Category I, Category II, and Category III. Eighty percent of the Annual Assessed Cost will be distributed among the three customer classifications and shall be known as the Quantity Cost.

(5) Trip generation rates is a measurement of the use the City roadway and therefore the significant and meaningful stormwater activities that the City engages in on the public roadway network to maintain a free and passable roadway network and reflects the proportional special benefit of each Taxable Parcel from a stormwater management program that maintains and prevents impairment by precipitation driven stormwater events or ocean/tidal forces as well as performs water quality activities in or adjacent to roadway acknowledging that more benefit is derived from tax parcels that generate more trip. Twenty percent of the Annual Assessed Cost will be distributed among tax parcels using trip generation rates and shall be known as the Quantity Cost.

- (C) PARCEL APPORTIONMENT METHODOLOGY. The Cost Apportionment for the Annual Assessed Costs for each customer classification and the trip shall be apportioned each Fiscal Year among the Tax Parcels within the Stormwater Management Program Benefit Area as follows:
  - (1) The Stormwater Management Program Assessment for each Tax Parcel classified as Category I shall be apportioned by determined the proportional share of the special benefit received for improved management of stormwater quantity and quality to each dwelling unit.
  - (2) The Stormwater Management Program Assessment for each Tax Parcel classified as Category II and Category III shall be apportioned by determined the proportional share of the special benefit received for improved management of stormwater quantity by the gross acreage of the parcel expressed in square feet. Water Quality cost shall be apportioned by determined the proportional share of the special benefit received for improved management of stormwater quality by the trip generation of the parcel.
  - (3) The Stormwater Management Program Assessment for each Tax Parcel shall be apportioned by determined the proportional share of the special benefit received for improved management of stormwater quality to each parcel based on the number of trips generated by the DOR land use assigned to the parcel.

<u>SECTION 2.04.</u> APPLICATION OF ASSESSMENT PROCEEDS. Proceeds from the Stormwater Management Program Assessments received during each Fiscal Year shall be applied by the City for payment of the administration and collection costs, payment of any Transaction Costs not funded from proceeds of the Obligations or Refunding Obligations, payment of interest due on the Obligations or Refunding Obligations, and payment of principal

due on the Obligations or Refunding Obligations. Any remaining proceeds will then be used for prepayment of the Obligations or Refunding Obligations or for payment of other amounts coming due in subsequent years.

# ARTICLE III GENERAL PROVISIONS

<u>SECTION 3.01</u>. METHOD OF COLLECTION. The Stormwater Management Program Assessments shall be collected pursuant to the Uniform Assessment Collection Act, and pursuant to Section 28-211 of the Ordinance. No prepayment or acceleration of Assessment will be allowed due to the recalculation of the Annual Assessment based upon new development or redevelopment.

<u>SECTION 3.02.</u> SEVERABILITY If any clause, section or provision of this Resolution shall be declared unconstitutional or invalid for any reason or cause, the remaining portion of said Resolution shall be in full force and effect and shall be valid as if such invalid portion thereof had not been incorporated herein.

# ARTICLE IV NOTICE AND PUBLIC HEARING

<u>SECTION 4.01.</u> ASSESSMENT ROLL. The City Manager is hereby directed to prepare, or cause to be prepared, an Initial Assessment Roll for the Fiscal Year commencing October 1, 2020 in the manner provided in the Ordinance. The Assessment Roll shall include all Tax Parcels within the Stormwater Management Program Benefit Area. The City Manager shall apportion the estimated Project Cost to be recovered through Stormwater Management Program Assessment in the manner set forth in Final Assessment Resolution.

A copy of this Initial Assessment Resolution, documentation related to the estimated amount of the Project Cost to be recovered through the imposition of Stormwater Management Program Assessments, and the Initial Assessment Roll shall be maintained on file in the office of the City Clerk and open to public inspection. The foregoing shall not be construed to require that the Initial Assessment Roll be in printed form if the amount of the Stormwater Management Program Assessment for each parcel of property can be determined by the use of a computer terminal available to the public.

It is hereby ascertained, determined, and declared that the method of determining the Stormwater Management Special Assessment as set forth in this Initial Assessment Resolution is a fair and

reasonable method of apportioning the among parcels of Assessed Property located within the Assessment Area.

# SECTION 4.02. AUTHORIZATION OF PUBLIC HEARING

There is hereby established a public hearing to be held at 5:01 p.m. on September 14, 2020, in the Commission Chambers of City Hall, 100 North Andrews Avenue, Fort Lauderdale, Florida. 33301, at which time the City Commission will receive and consider any comments on the Stormwater Management Special Assessment from the public and affected property owners and to consider (A) creation of the Special Assessment Area, (B) imposition of the Assessments, and (C) collection of the Assessments pursuant to the Uniform Assessment Collection Act.

SECTION 4.03. NOTICE BY PUBLICATION. The City Manager shall publish a notice of the public hearing in the manner and time provided in Sections 25-129.10 of the Ordinance. The notice shall be published no later than August 25, 2020, in substantially the form attached hereto as Appendix C.

SECTION 4.04. NOTICE BY MAIL: The City Manager shall also direct the provision of notice by first class mail to the owner of each parcel of Assessed Property, as required by Section 25-129.11 of the Ordinance. Such notices shall be mailed no later than August 25, 2020.

SECTION 4.05. EFFECTIVE DATE. This Declaration Resolution shall take effect upon the final adoption.

ADOPTED this da	ay of July, 2020.
	Mayor
ATTEST:	DEAN J. TRANTALIS
,	
City Clerk JEFFREY A. MODARELLI	

# APPENDIX A

# ASSESSMENT COST ALLOCATION

Category	Estimated	EBU Type	# of EBUs	Estimated
	Project	or Billing		Assessment
	Costs	Unit		
	Allocation**			
	per EBU			
Category I	\$218.71	Dwelling	44,070	\$9,638,549
		Unit		
Category II	\$2,273.01	Acres	6,311	\$14,344,966
Category III	\$567.00	Acres	1,957	\$1,109,619
Trips	\$4.19	Trips	1,497,735	\$6,275,509

## APPENDIX B

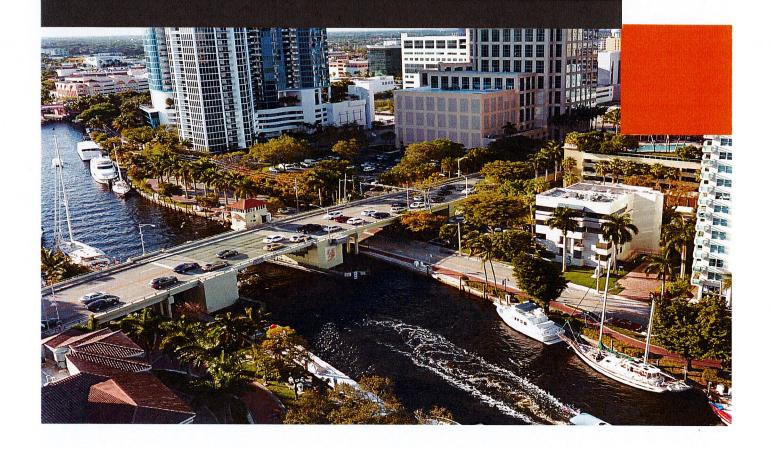
# CITY OF FORT LAUDERDALE, FLORIDA FISCAL YEAR 2020 STORMWATER FEE STUDY – FINAL REPORT BY STANTEC



# **City of Fort Lauderdale, Florida**

FY 2021 Stormwater Fee Study – Final Report

May 25, 2020





May 25, 2020

Mr. Chris Lagerbloom City Manager City of Fort Lauderdale 100 N Andrews Ave Fort Lauderdale, FL 33301

Re: FY 2021 Stormwater Fee Study – Final Report

Dear Mr. Lagerbloom,

Stantec Consulting is pleased to present this Final Report of the FY 2021 Stormwater Fee Study (Study) that we performed for the City of Fort Lauderdale, Florida (City). We appreciate the fine assistance provided by you and all of the members of the City Staff who participated in the Study.

We appreciate the opportunity to be of service to the City and look forward to the possibility of doing so again in the near future.

Sincerely,

Kyle Stevens Managing Consultant (904) 610-2910 Kyle.Stevens@stantec.com

Stantec 777 S. Harbour Island Blvd., Suite 600 Tampa, Florida 33602

Enclosure

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# 1. INTRODUCTION

Stantec Consulting Services Inc. (Stantec) has conducted a Stormwater Fee Study (Study) for the Stormwater Utility (Utility) of the City of Fort Lauderdale (City). This report presents the approach, methodology, source data, and assumptions, as well as the findings and recommendations of the Study.

#### 1.1 BACKGROUND

The City of Fort Lauderdale established a Stormwater Utility in 1992 to provide for the collection, storage, treatment, and conveyance of stormwater within the City limits. The Public Works Department's Stormwater Operations Section of the City is responsible for maintaining and improving the City's stormwater system infrastructure, which consists of 183.5 miles of stormwater pipe, 1,151 manholes, 1,038 outfalls, 6 drainage wells, and 8,848 catch basins. The stormwater system is a critical piece of infrastructure that serves to protect property and the City's transportation network from flooding, while reducing the impacts of urban runoff on the natural environment. The City has established an enterprise fund for the Utility to account for the financial transactions relating to the management of the stormwater in the City.

While the City evaluates the level of its stormwater user fees annually as part of its budget process, this comprehensive Study goes beyond the normal annual review to include a ten-year revenue sufficiency analysis, full cost of service allocation, fee structure analysis, billing method review, and fee benchmarking.

The Utility is funded though user fees paid by active utility accounts in the City limits. For most properties receiving monthly municipal utility bills for services such as water, sewer, and garbage, the stormwater utility fee is included on the monthly utility bill. For properties that do not receive monthly municipal utility bills for other services, the stormwater utility fee is often sent to the property owner as determined from the property appraiser tax rolls on an annual basis.

This Study originally commenced in 2016 and this report represents the accumulation of effort and analysis that has occurred over the five-year period resulting in the recommendations contained herein. In addition, the results outlined in this report have been shared with the City Commission, Infrastructure Task Force, Budget Advisory Board, and Council of Civic Associations. The Infrastructure Task Force, Budget Advisory Board, and Council of Civic Associations have all voted in favor of the recommendations developed during the Study that are reflected in this report. The City Commission has provided guidance to proceed with implementation activities for the recommendation herein and is expected to formally consider the recommendation for approval and adoption within the year.

#### 1.2 SCOPE OF SERVICES

The purpose of this Study was to develop a sustainable financial plan and modernize the fee structure for the Utility to satisfy the projected cost of providing the desired level of service, ensure an equitable allocation of system costs to different parcel types, and utilize the most appropriate billing method to collect user fees from parcels in the City's service area. As such, the scope of services for the Study to accomplish these objectives are as follows:

**Financial Sustainability Analysis** – Develop a ten-year financial plan for the Utility to ensure that stormwater fees will provide sufficient revenues to cover all operations, maintenance, debt service, and capital costs, while maintaining sufficient levels of reserve funds throughout the projection period.

**Stormwater Fee Structure Design** – Review the options for structuring stormwater fees and develop specific fees by customer class that advance the inherent equity of the City's stormwater fees, enhance transparency, and increase administrative efficiency. Develop a master account file to summarize the stormwater fee for each parcel to be billed.

**Stormwater Collection Method** – Review and determine the appropriate billing method for the City's stormwater fee (i.e. continuing to bill on the monthly water and sewer utility bill or converting to collecting the stormwater fee as a non-ad valorem assessment on the property tax bill).

# 2. FINANCIAL SUSTAINABILITY ANALYSIS

#### 2.1 DESCRIPTION

This section presents the development of annual system revenue requirements and the corresponding plan of annual revenue adjustments for the Utility as identified during the Financial Sustainability Analysis (FSA). The following sub-sections of the report present a description of the source data, assumptions, and resulting multi-year financial plan, while Appendix A includes detailed supporting schedules for the financial management plan identified herein for the Utility.

During the FSA, Stantec reviewed several alternative multi-year financial management plans and corresponding stormwater annual revenue adjustment plans through interactive work sessions with City staff. During these work sessions, Stantec examined the impact of various inputs and assumptions upon key financial indicators summarizing the results of the forecasting model under assumed conditions. In this way, local information and management input was incorporated as Stantec developed the recommended financial management plan for the Utility. The result is a financial plan that considers the City's current and best assumptions and data to satisfy the Utility's revenue requirements over a multi-year period while meeting key financial performance objectives and minimizing fee adjustments to the extent possible.

In order to initialize the FSA, Stantec obtained the City's historical and budgeted financial information regarding the Utility's operation, as well as information pertaining to working capital balances and future cost requirements. Stantec worked with the City to incorporate the Utility's multi-year capital improvement program (CIP) into the analysis, including projects identified in the City's 2009 Stormwater Master Plan. Stantec discussed with City staff other assumptions and policies that would affect the performance of the Utility, such as planned developments, capital funding sources, debt coverage ratios, reserve fund levels, earnings on invested funds, escalation rates for operating costs, and other factors.

This information was entered into Stantec's Financial Analysis and Management System (FAMS) interactive modeling system. FAMS produced a ten-year projection of the sufficiency of the revenue provided by stormwater fees to meet current and projected financial requirements. Based upon these projections, Stantec then determined both the level of revenue and revenue adjustments necessary in each year of the projection period to satisfy the Utility's annual financial requirements.

FAMS utilizes all projected available funds in each year of the projection period (after payment of operations and maintenance expenses, and debt service) to pay for capital projects. The model incorporates the rules of cash application as defined and applied by City staff, and it produces a detailed summary of the funding sources to be used for each project in the CIP. To the extent that current revenues and unrestricted reserves are not adequate to fund all capital projects in any year of the projection period, the model identifies a borrowing requirement to fund those projects or portions thereof that are determined to be eligible for borrowing. In this way, the FAMS model is used to develop a borrowing program that includes the required borrowing amount by year and the resultant debt service requirements for each year in the projection period.

#### 2.2 SOURCE DATA

The following sections describe the various source data and assumptions used to determine the Utility's revenue requirements during the course of the Study.

#### 2.2.1 Beginning Fund Balance

City staff provided audited Fiscal Year (FY) 2018 financial information used to establish the beginning FY 2019 balances for the revenue (operating fund) of the Utility. The detailed balances (as of September 30, 2018) that serve as the FY 2019 beginning fund balances are presented on Schedule 2 of Appendix A.

#### 2.2.2 Revenues

The revenue projections utilized in the Study reflect an evaluation of multiple years of historical results, FY 2018 audited actual results, the FY 2019 Amended Budget, and the FY 2020 Adopted Budget. Budgeted revenues for the Utility consist of stormwater user fee revenues, other operating revenues from miscellaneous service charges, and interest income. FY 2019 projected stormwater user fee revenues are based upon the City's current fee structure, the projected number of billing units for residential properties, non-residential properties, and the assumed number of acres of undisturbed properties. Revenue projections for the remainder of the forecast represent FY 2019 projected revenues adjusted for assumed property development and annual fee increases. Interest earnings in FY 2019 and FY 2020 were set equal to the budgeted numbers provided by City staff, whereas future forecasted interest earnings were calculated annually based upon projected average fund balances and assumed annual interest earnings rates. A summary of projected cash inflows is presented on Schedule 3 of Appendix A.

#### 2.2.3 Operating Expenditures

The Utility's operating expenditures include all personnel service costs, operation and maintenance (O&M) expenses, calculated debt service requirements, and minor capital outlay requirements. All revenue requirements in FY 2019 and FY 2020 reflect the FY 2019 amended budget and FY 2020 adopted budget, respectively. All operating expenses and inter-fund transfers were projected each year thereafter based upon the FY 2020 adopted budget, assumed future cost escalation factors, and information staff provided relative to future minor capital outlays. It is important to note that in each year of the forecast, with the exception of FY 2020 budget year, spending execution rates of 95% were assumed for all fixed operating expenses, while execution rates of 100% were assumed in all years for all personal service costs and budgeted/projected minor capital outlays. In addition to the budgeted expenses, allowances were made for anticipated expenses such as master plan capital, O&M, and ongoing asset management expenses. Projected operating expenditures and cash outflows (excluding the cash funding of capital) are presented on Schedule 4 of Appendix A.

#### 2.2.4 Community Investment Plan

A 10-year community investment plan (CIP) was developed during this Study through interactive work sessions with staff and primarily based on the current adopted CIP for the Utility. The CIP identified in the Study is presented in project level detail for the two main categories of projects: ongoing renewal and reinvestment projects and large generational investments. The first category of projects is related to the normal ongoing renewal and reinvestment in the system which is paid out of annual cash flow. FY 2019 capital expenditures for these projects were based on encumbered project balances for FY 2019. The proposed CIP was utilized for FY 2020 – FY 2024. From FY 2025 – FY 2029, a 5-year moving average was used to estimate the Utility's unspecified ongoing capital requirements.

The second category of capital projects is larger generational investments that were identified in the City's 2009 Stormwater Master Plan and are to be funded primarily through the issuance of municipal revenue bonds. Revenue bonds are appropriate for these types of capital investments as they are long-lived assets that are expected to provide intergenerational benefits to customers. The locations of these projects, designated as Phase Two stormwater improvement projects, are included in the detailed list below and are expected to be funded in FY 2020 and FY 2021 in the amount of \$200M in total. In addition to Phase Two, an additional \$200M of master plan project funding has been identified for FY 2026.

- Edgewood
- River Oak
- Dorsey Riverbend
- Durrs Area
- Progresso
- Victoria Park
- Southeast Isles

More information related to the debt-funding of capital projects is discussed in Sections 2.3.5 of this report. A detailed list of the specific projects and costs by year is included on Schedule 6 of Appendix A.

#### 2.3 ASSUMPTIONS

#### 2.3.1 Cost Escalation

Annual cost escalation factors for the various types of operating expenses were developed based upon discussions with staff, a review of historical trends, and Stantec's industry experience. These factors are applied in each year of the projection period beginning in FY 2021. The specific escalation factors assumed for the various categories of expenses can be found on Schedule 5 of Appendix A.

#### 2.3.2 Interest Earnings

The Study reflects assumed interest earning rates on invested funds of 1.75% in FY 2021 and 2.00% in FY 2022 and each year thereafter. Projected interest earnings are included on Schedule 3 of Appendix A.

#### 2.3.3 Customer Growth

Customer growth projections were developed in consultation with staff based upon historical trends and future expectations. Customer growth in FY 2021 through FY 2029 was projected assuming an average increase of 189 units annually in the residential category, an average increase of 9 units annually in the commercial category, and an average decrease of 19 units annually in the unimproved land category. Schedule 1 of Appendix A presents detailed annual stormwater system customer growth rates.

#### 2.3.4 Minimum Reserve Policy

Reserves are funds set aside for a specific cash flow requirement, financial need, project, task, or unforeseen system requirements. These balances are maintained in order to meet short-term cash flow requirements and minimize the risk associated with meeting the financial obligations and continued operational and capital needs under adverse conditions. The level of reserves maintained is an important component and consideration in developing a multi-year financial management plan.

Many utilities, rating agencies, and the investment community place a significant emphasis on having sufficient reserves available for potentially adverse economic conditions. The rationale related to the maintenance of adequate reserves is twofold. First, it helps to ensure that adequate funds will be available to meet financial obligations during unusual periods (i.e. when revenues are unusually low and/or expenditures are unusually high). Second, it provides funds that can be used for emergency repairs or replacements to the system that can occur as a result of natural disasters or unanticipated system failures.

The financial management plan presented in this report assumes that the City will maintain a minimum revenue fund balance or unrestricted cash reserve balance equal to 1.5 months of annual O&M expenses for the Utility in FY 2019. However, in an effort to build stronger reserve levels consistent with those of other utilities in the industry, and to present compelling fiscal strength to secure favorable credit ratings when borrowing money, it is recommended that the minimum reserve policy for the Utility be raised to 3.0 months of annual O&M expenses by FY 2021. Consequently, the financial management plan presented herein assumes that the City will maintain a minimum reserve of 3.0 months in FY 2021 and each year thereafter.

## 2.3.5 Future Borrowing & Capital Funding

As the 10-year CIP for the Utility was developed, sources of funding for individual projects were identified. Approximately \$443 million in capital funding was determined to be provided through revenue bonds, with the remainder of projects designated to be paid out of annual revenue and available fund balances. The projects identified for revenue bond funding are Phase Two components of the City's 2009 Stormwater Master Plan (Master Plan).

Given the immediacy of the need associated with the Phase Two Master Plan capital projects, the City has elected to utilize an interim source of financing for approximately \$70M of the identified \$200M in projects. In doing so, construction can commence on an accelerated timeline and the benefits of the improvements can be realized sooner. Long-term permanent financing for the Phase One projects will take the form of a municipal revenue bond with a targeted issuance date of early FY 2021 for the full amount of \$200M.

The new long-term debt required during the projection period is assumed to be issued for a 30-year term, with a 2.00% cost of issuance, and annual cost of borrowing equal to 4.00% in all years of the projection period. The debt is assumed to be paid in the form of level annual debt service consisting of interest and principal. Additionally, any new debt issuance has been assumed to require a debt service reserve equal to one year's worth of debt service. It is important to note that the Utility has not previously financed capital projects. Thus, the City's actual future financing and funding decisions will reflect then-current market conditions, rating agency guidance, and broader City-wide financing objectives. The projections used in this Study reflect reasonable expectations of overall conditions and are appropriate for planning purposes.

A complete schedule of assumed CIP funding can be found on Schedule 9 of Appendix A and projected future senior lien borrowing can be found on Schedule 11 of Appendix A.

#### 2.3.6 Debt Service Coverage

The Utility currently has no outstanding debt as of FY 2019; however, a minimum senior-lien debt service coverage ratio of 1.25 (with a target of 1.50), was utilized in the Study for projected future debt issuances. The debt service coverage ratio signifies that net income must be at least 1.25 times annual debt service.

The ratio of net income to annual debt service requirement (referred to as a debt service coverage ratio hereafter) described above was developed through discussions with City staff and the City's financial advisor and represents the minimum requirement of bondholders. As a policy decision, utilities frequently opt to measure revenue sufficiency and set fees based upon a higher debt service coverage ratio in order to ensure compliance with rate covenants in the event that future projections of revenue and expenses do not occur as predicted (due to unanticipated capital requirements or substantial operating cost increases, natural disasters, etc.). The financial management plan presented herein results in projected total debt service coverage greater than or equal to 1.50 in each year of the forecast.

## 2.4 RESULTS

Based upon the source data and assumptions presented herein, it is anticipated that the Utility will require revenue adjustments throughout the projection period in order to provide sufficient revenues to fund the ongoing operation and maintenance costs, capital improvement projects, renewal & replacement costs, new debt service, and the reserve requirements of the Utility.

Most notably the Utility is expected to see a large increase in expenditures in FY 2021, due to the issuance of a revenue bond to fund the Phase Two Master Plan projects. As such, the plan of revenue adjustments has been sized to reflect the annual repayment of principal and interest as well as coverage on the debt.

The recommended financial management plan and corresponding plan of rate adjustments is based upon the source data and assumptions as described in this report. Appendix A includes several detailed schedules presenting key aspects of the ten-year financial management plan, while the required rate revenue adjustment plan for the immediate five-year planning period is presented in Table 2-1:

Table 2.1 Stormwater Revenue Adjustment Plan

Fiscal Year	FY 2020 <sup>1</sup>	FY 2021 <sup>2</sup>	FY 2022	FY 2023	FY 2024	
Effective Date	10/1/2019	10/1/2020	10/1/2021	10/1/2022	10/1/2023	
Annual Adjustment	16.67%	54.00%	3.00%	3.00%	3.00%	

It is important to note that the projections of future conditions underlying this analysis are not intended to be predictions. Applicable to many utility systems, there are multiple factors beyond the City's control, such as i) severe weather, ii) regulatory changes, iii) national, regional, and local economic conditions, iv) the rate of growth in developed properties, v) operating and capital cost inflation, and vi) changes in the timing and composition of the Utility's CIP, that may have material impacts on the future financial condition of the Utility. Furthermore, the projections in this Study rely upon data and guidance provided by the City during the development of the Study, and while the information utilized in this Study is believed to be reliable, detailed independent reviews or auditing of the data were not conducted.

As a result, there will usually be differences between forecasted and actual results because events and circumstances frequently do not occur as expected, and those differences may be material. While Stantec has no responsibility to update this report for events and circumstances occurring after the date of this report, future management actions should be based upon and adjusted to reflect future results as they occur. These comments are provided to emphasize the importance of active management informed by the actual future results of Utility operations by the City. While the planning effort supported by this Study will serve to guide and inform the City in balancing future revenue and spending decisions, it is only through observation of future results, and the update of this analysis, that the City will be able to determine the actions required to ensure its financial and operational objectives are met over time.

Appendix A includes detailed schedules presenting all components of the financial management plan developed for the Utility.

<sup>&</sup>lt;sup>1</sup> Reflects adopted increase for FY 2020, percentage equals a \$2 change in residential rate

<sup>&</sup>lt;sup>2</sup> FY 2021 amount will be recovered through the new fee structure presented in Section 3 of this report.

# 3. STORMWATER FEE DESIGN

#### 3.1 CURRENT STORMWATER BILLING BASIS

The use of a stormwater system in a highly urbanized area, such as the City of Fort Lauderdale, is both ubiquitous and not directly measurable. In contrast, within the City's water utility, a water meter provides a highly precise basis for determining a customer's usage of the water system. Within a stormwater utility, no such meter or exact measurement of usage currently exists, thus communities rely on bases that serve as a proxy for parcel benefit related to the provision of stormwater services. The collection of dedicated stormwater revenues from property owners is accomplished through the use of different billing bases in communities all over the country. The billing basis is essentially the methodology used to measure the stormwater benefit each parcel receives and is intended to fairly apportion the stormwater utility's revenue requirement among benefitting parcels. The process of choosing a stormwater billing basis methodology is driven by several key factors, including primarily the availability of data in the community and level of complexity. For example, while it would require limited information to bill each parcel owner in the City the same flat fee, this approach would certainly not recognize the different stormwater contribution potential from parcels and benefit conferred to the diverse set of parcels in the City's service area. There are a number of different approaches that have been utilized around the country to address stormwater cost apportionment; a list of the most common billing bases is included in Figure 3.1.

Figure 3.1 Common Stormwater Billing Basis



The City currently charges stormwater to parcels within the City using two of the of the most common billing bases described above: gross area and dwelling units. In addition to these directly measured units, the City's current stormwater fees were originally developed using a method known as net effective impervious area (NEIA). This method applies an intensity of development factor to the aggregate gross area of parcels by Department of Revenue (DOR) land use in the community to determine the net effective impervious area being served. The result is then used to distribute costs to three customer classifications based on the relative effective impervious area of each class. The City's three customer classifications are as follows:

Category I means any lot or parcel developed exclusively for residential purposes limited to, single-family homes, manufactured homes, multifamily, apartment buildings, and condominiums designed to accommodate three (3) or fewer dwelling units. For billing coding purposes, Category I parcels are referred to as STMS.

**Category II** means any developed lot or parcel not in Category I or Category III, as defined herein. For billing coding purposes, Category II parcels are referred to as STMC.

Category III means property which is undeveloped or not significantly altered from its natural state by the addition of improvements such as buildings, structures, impervious surfaces, changes of grade, or landscaping. This includes properties such as vacant parcels, parks, airports, golf courses and well fields. For purposes of this article, a property shall be considered developed upon issuance of a certificate of occupancy, or upon completion of construction or final inspection if no such certificate is issued. For billing coding purposes, Category III parcels are referred to as STMU.

The conversion of natural land to developed land with the addition of impervious area results in increased stormwater runoff. Most communities with stormwater utilities use impervious area, or some variation of impervious area, as the basis for the stormwater fees. Impervious area impedes the natural infiltration of stormwater into the ground and results in higher stormwater runoff during precipitation events that must be managed by the City's stormwater system.

Numerous engineering and hydrologic studies have demonstrated that impervious area is the single most important factor contributing to the quantity and quality of stormwater runoff from a property. As a result, impervious area has been demonstrated to be a highly defensible, widely used, and easily understood component of stormwater rates across the country.

The City's current stormwater fee is based on a calculation of effective impervious area on a parcel considering impervious as well as pervious area. This Study reviewed the various industry standard bases for recovery of stormwater costs and provides a recommended methodology that best fits the functions within the Utility as well the needs of the community by increasing transparency, administrative efficiency, and property owner understanding.

#### 3.2 RECOMMENDED STORMWATER BILLING BASIS

In developing a recommended billing basis for any community, one of the primary goals is to connect the community's stormwater service delivery model to the billing basis in order to create a strong nexus between the parcels being charged a fee for services and the stormwater benefits conveyed.

Based on detailed discussions with City staff, the City has a unique stormwater service delivery model strongly influenced by the City's underlying physical environment, mainly its coastal proximity and low ground elevation in relation to sea level. Normally when discussing stormwater services, it is assumed that

the source of the stormwater being managed is precipitation, but in the City of Fort Lauderdale, the ocean waters also play a prominent role. In fact, the City's stormwater system is often inundated by the presence of King Tides, which involve the highest tides of the year that backflow into the stormwater system though outfalls. These events result in the stormwater system being compromised when impacted by King Tides as the hydrologic capacity of the system is diminished. In the most extreme cases, the ocean water can infiltrate the stormwater system and spill onto the roadway surface, resulting in an impairment to the use of the road and consequently ingress or egress to property, even on sunny days.

In addition, most developed parcels in the City have been constructed above the crown of the road by a significant margin, mainly driven by building codes. This means that in most cases, when developed parcels generate stormwater during precipitation events, the stormwater is discharged into the roadway network to be collected and managed.

The confluence of both ocean/tidal and property-based stormwater contributions in the City's roadway network makes this component of the stormwater system critically important to the City's stormwater management. This is evidenced by the City's stormwater capital investments and operational activities, which contain a significant concentration in managing stormwater on the roadway network and keeping ocean/tidal forces at bay, in an effort to maintain passable roads.

The uniqueness of the City's stormwater system provides a significant opportunity from a fee making perspective to ensure there is a rational alignment between the parcels benefiting from stormwater services in the City and the stormwater fee that those parcels pay. The identification of the roadway network as a key component of the stormwater system where parcel-based stormwater contributions, ocean tidal forces, and the City's stormwater management activities converge, makes a compelling case that any modifications to the City's current stormwater fee structure should take this relationship into account.

Based on Stantec's project team's experience, trip generation rates were identified as a potential billing basis that would create a strong nexus between the benefit received by parcels and the fee levied against parcels in the City. Trip generation rates are studied and published by the Institute of Transportation Engineers (ITE) and provide detailed estimates of roadway usage by current Department of Revenue (DOR) land use types. Leveraged in fee setting, these estimates provide an ability to define the relative benefit of free and passable roads by DOR land use type, and by extension, the benefit of the City's stormwater services that work to limit the impairment of the City's roadways from stormwater and tidal forces. The following figure provides an example of the trip generation rates of 3 diverse DOR land uses commonly found within the City's service area.

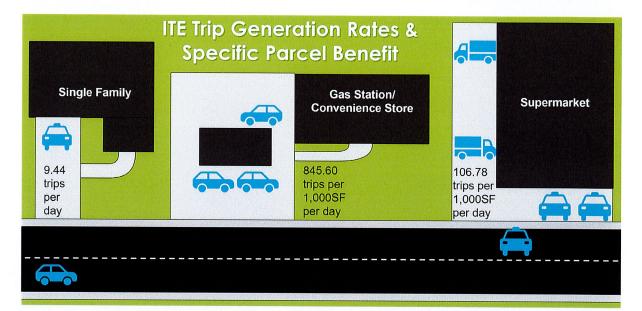


Figure 3.2 Trip Generation Rate Example

Figure 3.2 illuminates several themes in how diverse parcel land uses benefit from free and passable roads within the City. As shown in the comparison, it is often the case that commercial parcels more intensely generate trips due to the economic activity that takes place on the parcel, leading to greater realized benefit of clear and passable roads than a parcel of similar size that happens to be a single-family home. Additionally, trip generation rates are measured in one of two units; the building square footage or the number of trip demand units (e.g. dwelling units).

These measurements consider the entirety of a parcel's development, including vertical extent, which stands in significant contrast to traditional measures of potential stormwater benefit measurements such as impervious area. For example, the impervious area of two parcels can be identical as measured overhead, but one parcel may contain a one-story building with 15 residential dwelling units while the second parcel was developed in a more vertical fashion and may contain 300 residential dwelling units. Traditional measurements of stormwater would conclude that these two parcels benefit the same from stormwater services based on their measured impervious area. Considering the significant and meaningful stormwater activities that the City engages in on the public roadway network to maintain a free and passable roadway network, it is evident that these two parcels benefit differently. The example parcel with more dwelling units generates more trips and derives more benefit in total than the parcel with a lower use of the roadway network. Trip generation rates, by virtue of their application, take into account the entirety of a parcel's activity, including this vertical benefit component.

Based on the key observations uncovered in the course of the study relating to the City's provision of stormwater services stemming from runoff on developed parcels and the City's efforts in combating the impairment of the system from ocean/tidal forces, there are unique benefits to stormwater service in the City of Fort Lauderdale. Given these dynamics it would be reasonable that the stormwater fee basis be structured in such a way as to ensure that the cost of providing service in the community is directed to

parcels in proportion to their benefit of the system. As such, Stantec recommends that the City consider the following bifurcated fee basis for use in assessing stormwater fees:

- 1. Net Effective Impervious Area (Current Fee Basis)
  - a. Rationale: The City's current fee basis is effective in proportioning cost to parcels based on their development characteristics and the benefit received by addressing the quantity of stormwater runoff generated by properties in the City.

#### 2. Trip Generations Rates

a. Rationale: Given the City's significant stormwater activities aimed at maintaining and preventing impairment by precipitation driven stormwater events or ocean/tidal forces as well as performing water quality activities in or adjacent to roadways, trip generation rates provide a clear and defensible mechanism by which the City can assess stormwater fees in proportion to the benefit received by use of the roadway network.

The recommended approach of using two billing bases recognizes the primary benefits that stormwater services provide in the community to developed parcels. Although the incorporation of two billing bases is more complex, the approach arguably makes significant advances in providing an equitable and reasonable allocation of stormwater costs to benefitting parcels within the City.

#### 3.3 MEASUREMENT OF BILLING BASIS

In order to successfully implement a stormwater billing basis, the appropriate attributes of each parcel that will be assessed must be measured accurately. This section of the report details the efforts undertaken to create an up-to-date billing database, that allows for the determination of each parcel's billing units and the total billing units of the Utility.

#### Current Stormwater Billing Data

The City currently bills stormwater fees on a monthly basis by utilizing the existing billing infrastructure that supports the City's water and wastewater services. Each utility billing account is assigned a stormwater customer class designation and includes a billing unit representative of the gross sq. ft. of the parcel(s) being billed under the account. An initial analysis of the current billing data indicated that the billing units would benefit from an update with the most recent Broward County Property Appraiser (PA) data to ensure that the gross sq. ft. being billed for each parcel is accurate. In addition, the City's service area is highly urbanized and has considerably complex water infrastructure (e.g. in many cases one water meter is serving multiple parcels). This presents a challenge from a stormwater billing perspective, as multiple parcels must be aggregated to one utility account in order to be billed correctly. In many cities this represents an ongoing challenge that requires significant dedicated resources and effort in order to ensure that connections are maintained and updated in alignment with the underlying property data. It is unclear as to the last time the City systematically validated all the parcels to account linkages. Furthermore, it should be expected that the underlying parcel data also changes frequently as development, redevelopment, parcel splits, and parcel reconfigurations take place.

Based on the initial analysis, which indicated that gains in accuracy could be made by updating the billing data, it was decided that as part of this Study the existing billing units would be updated using the most current and available PA data as of August, 2019. The PA data was utilized as the main data source for the analysis conducted herein, which likely will result in different measured units for certain parcels within the City as compared to the current billing data.

#### **Billing Roll Creation**

Stantec's project team developed an updated parcel database to calculate the recommended stormwater fee structure based on net effective impervious area and trip generation rates. The database was constructed using a geographical informational software environment (GIS) and the most up-to-date PA data. The City consists of over 82,000 parcels, including condo or cooperative parcels that are stacked upon each other in towers/stacks that were considered as part of the analysis. Table 3.1 includes a summation of the property roll by DOR land use type that was relied on to determine the net effective impervious area and trip generation. The updated parcel data reveals that the City is diverse from a land use perspective, notably with over 35,000 single-family homes and 27,000 condos.

**Table 3.1 Updated Parcel Database Summary** 

DORUSEDETAILS	Count	Building Area (sq.ft.)	Parcel Area (sq.ft.)
00 - Residential - Vacant Residential	1,605	=	14,534,821
01 - Residential - Single Family	35,658	71,134,102	294,027,433
02 - Residential - Mobile Homes	15	12,370	48,552
03 - Residential - Multi-family-10 units or more	372	18,727,579	17,935,622
04 - Residential - Condominium	27,584	35,811,008	60,219
05 - Residential - Cooperatives	3,988	3,665,011	-
07 - Residential - Miscellaneous residential (migra	12	4,988	216,473
08 - Residential - Multi-family - less than 10 units	4,700	11,356,146	36,705,445
09 - Residential - Undefined – reserved for use by	134	285,774	
10 - Commercial - Vacant Commercial 11 - Commercial - Stores, 1-story	380	5,710,518	6,702,386 15,443,367
12 - Commercial - Stores, 1-story  12 - Commercial - Mixed use – store and office or	683 507	2,283,552	3,040,163
13 - Commercial - Department Stores	8	1,301,654	1,454,302
14 - Commercial - Supermarkets	9	348,439	852,129
15 - Commercial - Regional Shopping Centers	2	2,079,191	1,647,091
16 - Commercial - Community Shopping Centers	29	1,266,547	4,602,011
17 - Commercial - Office buildings, non-profession	432	2,467,432	8,923,850
18 - Commercial - Office buildings, non-profession	464	18,650,210	17,006,762
19 - Commercial - Professional services building	357	2,365,865	2,932,451
20 - Commercial - Airports (private or commercia	196	1,094,756	28,903,675
21 - Commercial - Restaurants, cafeteria	122	575,524	2,128,504
22 - Commercial - Drive-in restaurants	64	179,884	1,765,805
23 - Commercial - Financial institutions (banks, sa	39	170,774	1,360,267
26 - Commercial - Service Stations	59	193,075	1,667,626
27 - Commercial - Auto sales, repair and storage,	182	2,356,396	6,775,045
28 - Commercial - Parking lots (commercial or par	802	3,567,976	18,706,235
29 - Commercial - Wholesale outlets, produce ho	1	45,000	88,602
32 - Commercial - Enclosed theatres, enclosed au	4	114,852	203,265
33 - Commercial - Nightclubs, cocktail lounges, ba	44	287,812	1,117,636
35 - Commercial - Tourist attractions, permanent	1	8,635	103,882
38 - Commercial - Golf courses, driving ranges 39 - Commercial - Hotels, motels	1 265	47,286	8,191,652
40 - Industrial - Vacant Industrial	1,265 79	11,139,429	10,353,047 1,587,978
41 - Industrial - Light manufacturing, small equipn	77	1,950,783	8,786,409
44 - Industrial - Packing plants, fruit & vegetable p	1	28,629	50,827
48 - Industrial - Warehousing, distribution termina	1,362	18,462,614	43,342,753
49 - Industrial - Open storage, new & used bldg su	84	31,369	1,638,757
52 - Agricultural - Cropland soil capability Class II	3	· -	32,250
67 - Agricultural - Poultry, bees, tropical fish, rabb	2	-	651,407
69 - Agricultural - Ornamentals, miscellaneous agi	9	7,398	104,349
70 - Institutional - Vacant Institutional	60	-	1,013,462
71 - Institutional - Churches	199	3,187,924	15,104,925
72 - Institutional - Private Schools and Colleges	63	2,418,147	6,374,659
73 - Institutional - Privately owned hospitals	17	3,138,252	3,090,132
74 - Institutional - Homes for the aged	27	600,755	1,230,453
75 - Institutional - Orphanages, other non profit o	3	50,549	95,898
76 - Institutional - Mortuaries, cemeteries, crema	13	40,019	4,262,763
77 - Institutional - Clubs, lodges, union halls	29	214,764	881,583
78 - Institutional - Sanitariums, convalescent and	20	329,298	561,123
79 - Institutional - Cultural organizations, facilities	2	77,233	59,788
80 - Government - Undefined-Reserved for future	235	246 675	7,313,297
82 - Government - Forest, parks recreational area 83 - Government - Public county schools – include	91	246,675	25,292,773
85 - Government - Hospitals	1	46,531	138,082
86 - Government - Counties (other than public sch	3	437,565	499,555
87 - Government - State other than military, fores	4	240,273	1,961,431
88 - Government - Federal other than military, for	1	8,419	185,657
89 - Government - Municipal other than parks, re	48	1,027,866	7,772,531
91 - Miscellaneous - Utility, gas & electricity, telep	34	403,133	2,576,323
94 - Miscellaneous - Right-of-way, streets, roads,	-	•	,,
95 - Miscellaneous - Rivers and lakes, submerged	-	-	-
96 - Miscellaneous - Sewage disposal, solid waste,	2	-	1,936,205
98 - Centrally Assessed - Centrally assessed	3	44,909	510,807
Total	82,196	230,244,890	644,554,493

#### Measurement of Net Effective Impervious Area Billing Basis

The billing roll presented in the proceeding section was built upon to include net impervious area multipliers. The multipliers, specific to each DOR land use type, allows for the gross area of diverse DOR land uses to be aggregated and the amount of effective impervious area to be estimated. The multipliers were sourced from the City's 2009 Stormwater Master Plan. In addition, parcels have been grouped according to the City's current customer classifications including Category I (STMS), Category II (STMC) and Category III (STMU). The following table presents the net effective impervious area calculated by customer category.

**Table 3.2 Updated Net Effective Impervious Area** 

100   101   102   102   103	1,025,098
1	1,025,098
1.1   1.1   1.2	
0.3 Residential - Multi-family-10 units or more         0.62         2.9         112,0006         0.62         0.89         112,0006         0.62         0.89         112,0006         0.89         0.89         0.89         0.89         0.80	-
0-4   Residential - Condominum   0-62   19	-
65 - Residential - Cooperatives         0.62         S. 349         11         211,639         -         3,01,491         12,126         3,01,491         12,126         8. Residential - Musik-amily - less than 10 units         0.62         7,377         24,130,042         1,405         12,258,304         -         14,960,626         7,801,485         6,869           10 - Commercial - Wacant Commercial         0.02         0.28         -         134         20,9531         -         0.28         3,869         1         3,669         1         3,669         1         1,669         1         1,669         1         1,669         1         1,669         1         1,669         1         1,669         1         1,11,140	-
07. Residential - Muscalianeous residential (migra)         062         5.349         1.10         211,639         -         -         1,316         731,218           08. Residential - Musli-family - legiste than 10 units         0.28         -         1,436         20,9631         -         -         1,496,666         7,81,418           09. Residential - Undefined - reserved for use by         0.8         -         -         117         2,219,818         263         3,483,204         -         12,1918           11. Commercial - Stores, Lstory         0.75         -         -         507         3245,275         -         -         0.18,111,110           12. Commercial - Origentent Stores         0.75         -         -         0.9         82,125         -         -         0.00,775           13. Commercial - Origentent Stores         0.75         -         -         -         464,001         -         -         -         0.00,078           14. Commercial - Origential Supering Centers         0.75         -         -         422         4,641,618         -         -         -         639,096           15. Commercial - Origential Supering Centers         0.75         -         -         422         9,001,178         -         -	
09 - Residential - Undefined - reserved for use by   0.28   1.34   20.96.31	
10   Commercial - Vacant Commercial   Vacant Commercial   Vacant Commercial   Stores, 1-story   0.75   683   15,811,520   5   5   5   5   5   5   5   5   5	
1.   Commercial - Mixed user - store and office or   0.75   507   3.245.275	
12. Commercial - Mixed use – store and office or   0.75   0.75   8   1,454,302	348,320
13   Commercial - Department Stores   0.75   9   852,129   -   -   -   -   -   -   -   -   -	
14 - Commercial - Supermarkets   0.75   9   85.2,129   .   .   .   .   .   .   .   .   .	
15   Commercial - Regional Shopping Centers   0.75   2   1,647,091   .   .   .   .   .   .   .   .   .	
1-1-   Commercial - Community Shopping Centers   0.75	•
17 - Commercial - Office buildings, non-professior 0.75	•
13   Commercial - Office buildings, non-profession   0.75	•
19   Commercial - Professional services building   0.75	•
20 - Commercial - Airports (private or commercial 0.10	-
21 - Commercial - Restaurants, cafeteria	2 222 246
22 - Commercial - Drive-in restaurants 0.75 - 64 1,765,805 - 1,262,720 - 1,020,200 - 1,224,354 - 1,224,355 - 1,224,355 - 1,224,354 - 1,224,354 - 1,224,355 - 1,224,355 - 1,224,354 - 1,224,355 - 1,224,355 - 1,224,354 - 1,224,355 - 1,224	2,232,215
23 - Commercial - Financial institutions (banks, sa 0.75	•
26 - Commercial - Service Stations 0.75	-
27 - Commercial - Auto sales, repair and storage, 27 - Commercial - Parking lots (commercial or pai 20,5	
28 - Commercial - Parking lots (commercial or pair 29	•
29 - Commercial - Wholesale outlets, produce ho	
32 - Commercial - Enclosed theatres, enclosed au 0.75	
33 - Commercial - Nghtclubs, cocktail lounges, ba   36 - Commercial - Tourist attractions, permanent   37 - Commercial - Tourist attractions, permanent   38 - Commercial - Golf courses, driving ranges   39 - Commercial - Holes, motels   30 - Co	
35 - Commercial - Tourist attractions, permanent   0.75	
38 - Commercial - Golf courses, driving ranges         0.10         -         -         -         -         6         8,191,652         -         -         8,232,387           39 - Commercial - Hotels, motels         0.75         -         1,665         10,976,516         -         -         1,832,347         29         1,153,405         43,457           41 - Industrial - Vacant Industrial - Warehousing, distribution and Longo industrial - Warehousing, distribut	
40 - Industrial - Vacant Industrial 4 - Action Industrial 4 - Action Industrial - Vacant Industrial - Vaca	819,165
40 - Industrial - Vacant I	
44 - Industrial - Packing plants, fruit & vegetable p 4 . 10	115,341
48 - Industrial - Warehousing, distribution termini 49 - Industrial - Warehousing, distribution termini 49 - Industrial - Open storage, new & used bldg su 0.10 - 84 1,538,757 - 18,387,757	
49 - Industrial - Open storage, new & used bidg su 52 - Agricultural - Crophand soil capability Class II	-
52 - Agricultural - Cropland soil capability Class II         0.10         2         13,500         1         18,750         1,35	
67 - Agricultural - Poultry, bees, tropical fish, rabb	-
69 - Agricultural - Ornamentals, miscellaneous agi 0.10 4 56,844 - 4 47,506 5,684 - 32,728 - 47,506 - 5,684 - 32,728 - 47,506 - 5,684 - 32,728 - 5,006	1,875
70 - Institutional - Vacant Institutional 0.10 9 327,277 51 686,186 32,728 71 - Institutional - Churches 0.75 199 15,104,925 - 11,328,693 12 - 14,780,994 73 - Institutional - Private Schools and Colleges 0.75 63 6,374,659 - 4,780,994 73 - Institutional - Privately owned hospitals 0.75 17 3,090,132 - 2,317,599 74 - Institutional - Privately owned hospitals 0.75 27 1,230,453 - 3,230,453 -	65,141
71 - Institutional - Churches     0.75     199     15,104,925     11,328.693       72 - Institutional - Private Schools and Colleges     0.75     63     6,374,659     4,780,994       73 - Institutional - Privately owned hospitals     0.75     17     3,090,132     2,317,599       74 - Institutional - Homes for the aged     0.75     27     1,230,453     922,840       75 - Institutional - Orphanages, other non profit     0.75     3     95,898     71,923	4,751
72 - Institutional - Private Schools and Colleges     0.75     63     6,374,659     4,780,994       73 - Institutional - Privately owned hospitals     0.75     17     3,090,132     2,317,599       74 - Institutional - Homes for the aged     0.75     27     1,230,453     922,840       75 - Institutional - Orphanages, other non profit     0.75     3     95,898     71,923	68,619
73 - Institutional - Privately owned hospitals       0.75       17       3,090,132       2       2,317,599         74 - Institutional - Homes for the aged       0.75       27       1,230,453       2       922,840         75 - Institutional - Orphanages, other non profit o       0.75       3       95,898       2       71,923	
74 - Institutional - Homes for the aged         0.75         -         27         1,230,453         -         922,840           75 - Institutional - Orphanages, other non profit         0.75         -         3         95,898         -         -         71,923	-
75 - Institutional - Orphanages, other non profit o 0.75 - 3 95,898	
	-
76 - Institutional - Mortvaries, cremeteries, crema 0.75 4 80,631 9 4,182,132 60,473 77 - Institutional - Clubs, lodges, union halls 0.75 29 881,583 661,188	3,136,599
	-
78 - Institutional - Sanitariums, convalescent and 0.75 - 20 561,123 - 420,842 - 79 - Institutional - Cultural organizations, facilities 0.75 - 2 59,788 - 44,841	-
73 - 13 - 13 - 13 - 13 - 13 - 13 - 13 -	703,166
82 - Government - Forest, parks recreational area 0.10 91 25,952 26,153	2,529,277
83 - Government - Public county schools - include 0.75	2,323,211
85 - Government - Hospitals 0.75 · 1 138,082 ·	
86 - Government - Counties (other than public set 0.10 - 3 499,555 - 49,956	
87 - Government - State other than military, fore: 0.10 4 1,961,431 196,143	
88 - Government - Federal other than military, for 0.10 · · · 1 185,657 · · · 18,566	
89 - Government - Municipal other than parks, re 0.10 - 46 7,859,198 2 1,541 785,920	154
91 - Miscellaneous - Utility, gas & electricity, telep. 0.10 34 2,576,323 257,632	
94 - Miscellaneous - Right-of-way, streets, roads, 0.10	
95 · Miscellaneous - Rivers and lakes, submerged 0.10 · · · · · · · · · · · · · · · · · · ·	
96 - Miscellaneous - Sewage disposal, solid waste, 0.10 · · · · 2 1,936,205 · · ·	193,621
98 - Centrally Assessed - Centrally assessed 0.75 - 3 510,807 - 383,105	-
Total 44.070 321,046,949 41,048 274,921,145 1,826 85,249,556 97,661,879 145,355,544	11,243,342

Once the net effective impervious area calculation was completed, all parcels were summarized in terms of the customer class billing designations (STMS, STMC, and STMU). STMS parcels are currently billed

based on dwelling units on each parcel, while STMC and STMU parcels are billed on the amount of gross area of the parcel. The following figures show the updated billing units based on the parcel analysis presented herein against the City's current billed units (2018). It should be noted that differences between the current billed units and updated figures are to be expected, as a significant amount of time has elapsed since the last full parcel by parcel update of the stormwater billing units.

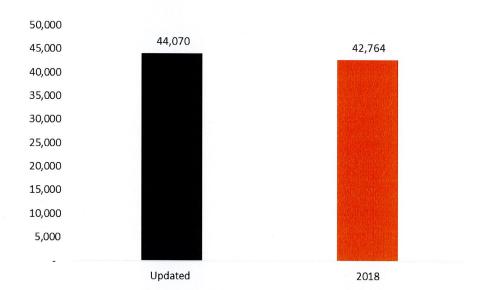


Figure 3.2 Single-Family (STMS) Dwelling Units Comparison

In updating the single-family customer classification, it was revealed that there were 3.1% or 1,306 more dwelling units recorded in the Property Appraisers database than were being billed as of FY 2018.

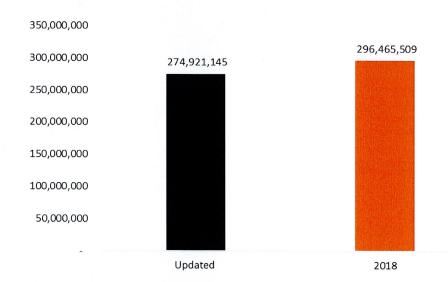


Figure 3.3 Developed Parcels (STMC) Sq. Ft. of Gross Area Comparison

In updating the STMC customer class, the billable sq. ft. was shown to decrease from 2018 billing levels. This is in large part a result of parcels being placed into customer classes based on the strict definition outlined in the City's current stormwater ordinance as part of this analysis. The updated classifications resulted in several large parcels that are currently being billed as STMC being included in the undeveloped STMU categorization. In total, the customer class's billing units contracted by 7.3% or 21.5 million sq. ft.

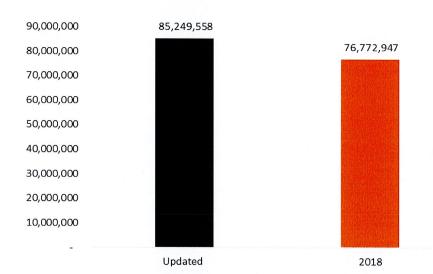


Figure 3.4 Undeveloped Parcels (STMU) Sq. Ft. of Gross Area Comparison

With regards to the undeveloped classification of parcels (STMU), the updated database shows that billing units have increased over the 2018 billing data. This was largely driven by the recategorization of multiple parcels from the STMC category to the STMU category for billing purposes, leading to an overall 11% or 8.5 million increase in billable STMU sq. ft.

#### Measurement of Trip Generation Billing Basis

In addition to the use of net effective impervious area, it has also been recommended that the City, as part of a bifurcated stormwater fee, utilize trip generation rates. Trip generation rates will allow the City to determine the benefit a parcel receives from clear and passable roads, a key benefit of effective stormwater services in the community. No existing measurement of trip generation rates exist for the City. As such, Stantec worked to create a database that contained every parcel in the City and then calculated the parcel's trip generation rates based on the detailed information contained in the Trip Generation Manual 10<sup>th</sup> Edition from the Institute of Transportation Engineers (ITE). The manual is widely considered the industry standard in estimating trip generation rates for specific parcels and is based on a wealth of observation data collected on individual parcels over a number of years.

For each DOR land use category or code, a trip generation rate was assigned based on the ITE trip manual, and a trip generation driver was determined (most commonly it is the sq. ft. of the building on the parcel or

the number of dwelling units on the parcel). Multiplying the trip generation rate by the trip generation driver yields the estimated number of trips generated for a parcel.

In addition to the core trip generation calculation applicable to all parcels, reasonable adjustments were made in certain cases and are outlined in Table 3.3. These adjustments were made to calibrate the trip generation data to the community-specific parcel data.

- Vacant land was given a trip generation rate of zero as this land use has no ongoing use of the roadway network and the ITE manual has no trip generation rate outlined for vacant land.
- Certain types of land use inclusive of mixed use, department stores and supermarkets have pass by rates applied to their trip generation rates. For example, supermarkets are often an intermediate trip destination, which ITE accounts for in its overall documentation of land uses that have a high proportion of intermediate trip stops. As such, supermarkets are only assigned 34% of the calculated trips to ensure that they are only charged for the estimated number of terminal trips to the parcel.

**Table 3.3 Calculation of Trips** 

	Billed Enits Bille		Type Trip Generation	Trip Gen (Pass By: T	nn Gen Effective Tilb	Contr	Thas SQF#	Total Trips
00 - Residential - Vacant Residential		Units	· · · · · · · · · · · · · · · · · · ·				-	
01 - Residential - Single Family	36,650	Units	9.44	100%	9.44	345,976		345,976
02 - Residential - Mobile Homes	15	Units	5.00	100%	5.00	75	-	75
03 - Residential - Multi-family-10 units or more	15,902	Units	5.44	100%	5.44	86,507		86,507
04 - Residential - Condominium	28,048	Units	4.45	100%	4.45	124,814	-	124,814
05 - Residential - Cooperatives	3,988	Units	4.45	100%	4.45	17,747		17,747
07 - Residential - Miscellaneous residential (migrant camp, boarding homes, e- 08 - Residential - Multi-family — less than 10 units								
09 - Residential - Undefined – reserved for use by department of revenue only	14,424	Units	7.32	100%	7.32	105,584	-	105,584
10 - Commercial - Vacant Commercial							-	
11 - Commercial - Stores, 1-story		5,710,518 SQFT	9.74	100%	0.74	-		
12 - Commercial - Mixed use - store and office or store and residential or residential		2,283,552 SQFT	9.74	36%	9.74 3.51		55,620	55,620
13 - Commercial - Department Stores		1,301,654 SQFT	22.88	34%	3.51 7.78		8,007 10,126	8,007
14 - Commercial - Supermarkets		348,439 SQFT	106.78	34%	36.31	-	12,650	10,126
15 - Commercial - Regional Shopping Centers		2.079.191 SOFT	37.75	100%	37.75	•	78,489	12,650 78,489
16 - Commercial - Community Shopping Centers		1,266,547 SQFT	37.75	100%	37.75	-	47,812	78,489 47,812
17 - Commercial - Office buildings, non-professional services, one story		2,467,432 SQFT	9.74	100%	9.74		24,033	24,033
18 · Commercial · Office buildings, non-professional services buildings, multi-s		18,650,210 SQFT	9.74	100%	9.74		181,653	181,653
19 - Commercial - Professional services building		2,365,865 SQFT	9.74	100%	9.74		23,044	23,044
20 - Commercial - Airports (private or commercial), bus terminals, marine terr		1,094,756 SQFT	24.30	100%	24.30		26,598	26,598
21 - Commercial - Restaurants, cafeteria		575,524 SQFT	16.97	50%	8.49		4,883	4,883
22 - Commercial - Drive-in restaurants		179,884 SQFT	470.95	100%	470.95		84,716	84,716
23 - Commercial - Financial institutions (banks, savings & loan companies, mor		170,774 SQFT	100.03	100%	100.03		17,083	17.083
26 - Commercial - Service Stations		193,075 SQFT	2.25	100%	2.25		434	434
27 - Commercial - Auto sales, repair and storage, auto-service shops, body and		2,356,396 SQFT	16.28	100%	16.28		38,362	38,362
28 - Commercial · Parking lots (commercial or patron), mobile home parks								30,302
29 - Commercial - Wholesale outlets, produce houses, manufacturing outlets		45,000 SQFT	0.55	100%	0.55		25	25
32 - Commercial - Enclosed theatres, enclosed auditoriums		114,852 SQFT	78.09	100%	78.09		8,969	8,969
33 - Commercial - Nightclubs, cocktail lounges, bars, yacht clubs, social clubs,		287,812 SQFT	78.09	100%	78.09		22,475	22,475
35 · Commercial - Tourist attractions, permanent exhibits, other entertainmer		8,635 SQFT	3.58	100%	3.58		31	31
38 - Commercial - Golf courses, driving ranges		47,286 SQFT	30.38	100%	30.38		1,437	1,437
39 · Commercial · Hotels, motels	12,525	Units	1.06	100%	1.06	13,277		13,277
40 - Industrial - Vacant Industrial								
41 - Industrial - Light manufacturing, small equipment manufacturing plants, s		1,950,783 SQFT	4.96	100%	4.96		9,676	9,676
44 - Industrial - Packing plants, fruit & vegetable packing plants, meat packing		28,629 SQFT	4.96	100%	4.96	-	142	142
48 - Industrial - Warehousing, distribution terminals, trucking terminals, van &		18,462,614 SQFT	1.74	100%	1.74	-	32,125	32,125
49 - Industrial - Open storage, new & used bldg supplies, junk yards, auto wrec		31,369 SQFT	1.74	100%	1.74	-	55	55
52 - Agricultural - Cropland soil capability Class II							*	
67 - Agricultural - Poultry, bees, tropical fish, rabbits, etc.							-	-
69 - Agricultural - Ornamentals, miscellaneous agricultural						-		
70 - Institutional - Vacant Institutional								
71 - Institutional - Churches		3,187,924 SQFT	6.95	100%	6.95		22,156	22,156
72 - Institutional - Private Schools and Colleges		2,418,147 SQFT	11.59	100%	11.59		28,026	28,026
73 - Institutional - Privately owned hospitals		3,138,252 SQFT	10.72	100%	10.72		33,642	33,642
74 Institutional - Homes for the aged		600,755 SQFT	6.64	100%	6.64	•	3,989	3,989
75 - Institutional - Orphanages, other non profit or charitable services		50,549 SQFT	6.64	100%	6.64	•	336	336
76 - Institutional - Mortuaries, cemeteries, crematoriums 77 - Institutional - Clubs, lodges, union halls		4,262,763 SQFT	0.00	100%	0.00		1	1
		214,764 SQFT	6.95	100%	6.95	-	1,493	1,493
78 - Institutional - Sanitariums, convalescent and rest homes 79 - Institutional - Cultural organizations, facilities		329,298 SQFT	6.64	100%	6.64	*	2,187	2,187
80 - Government - Undefined-Reserved for future use		77,233 SQFT	6.64	100%	6.64		513	513
82 - Government - Underined-Reserved for future use		25 202 202 5050						
83 - Government - Potest, parks recreational areas 83 - Government - Public county schools includes all property of board of pu		25,292,773 SQFT	0.00	100%	0.00		0	0
85 - Government - Public county schools – includes all property of board of bu		- SQFT	20.17	100%	20.17			
86 - Government - Hospitals 86 - Government - Counties (other than public schools, colleges, hospitals) inc		46,531 SQFT 437,565 SQFT	10.72	100%	10.72	-	499	499
87 - Government - Counties (other than public schools, colleges, nospitals) inc		437,565 SQFT 240,273 SQFT	9.74	100%	9.74		4,262	4,262
88 - Government - State other than military, forests, parks, recreational areas,			9.74	100%	9.74		2,340	2,340
89 - Government - rederal other than military, forests, parks, recreational are		8,419 SQFT	9.74	100%	9.74		82	82
91 - Miscellaneous - Utility, gas & electricity, telephone & telegraph, locally as:		1,027,866 SQFT 403.133 SQFT	9.74	100%	9.74	-	10,011	10,011
94 - Miscellaneous - Othity, gas & electricity, telephone & telegraph, locally as:		4U3,133 3UF1	13.24	100%	13.24		5,337	5,337
95 - Miscellaneous - Rivers and lakes, submerged lands							-	
96 - Miscellaneous - Rivers and lakes, submerged lands 96 - Miscellaneous - Sewage disposal, solid waste, borrow pits, drainage resen						-		
98 - Centrally Assessed - Centrally assessed		44,909 SQFT	9.74	100%	0.74	-		
			9.74	100%	9.74		437	437

After applying the trip generation rates to the trip demand factors by land use category, it was possible to calculate the estimated total number of trips contained within the City's boundaries within a day at peak trip times, which is 1,497,735 trips. Importantly, the distribution of trip generation within the City is a more meaningful metric that assists in understanding who benefits from using the roadway networks when they are clear and passable. Figure 3.4 displays the relative contribution of trips generated by the five major land use categories. Notably, residential and commercial land uses are representative of 89% of all trips and are roughly split in half in terms their respective contributions.

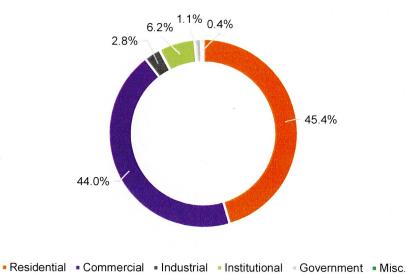


Figure 3.4 Distribution of Trips

# 3.4 COST OF SERVICE

The preceding sections of this Study detailed the derivation of billing units from both the conventional and currently used net effective impervious area basis as well as the new billing basis which uses trip generation rates. Whenever a bifurcated fee basis is used, it fundamentally requires an allocation process to occur, which defines how much revenue will be recovered from each fee basis. The most appropriate method to determine these allocations is within a detailed cost allocation analysis that carefully considers the Utility's functions and then allocates revenue requirements to the fee structure in alignment with those functions.

Stormwater services in the City are provided through two primary service functions, water quantity and water quality. The water quantity function is concerned with flood management and ensuring that the stormwater system can collect, transport, and deposit stormwater into receiving bodies efficiently. In addition to managing quantity, the Utility works to reduce the pollutant loading of the waters transported through its systems to local water bodies. Such activities are commonly referred to as quality related. From a fee making perspective, the compartmentalization of cost into these two key service delivery mechanisms provides an ideal separation that can be leveraged to develop the basis for the fee structure.

In the City's case, the current annual operational and capital costs of the Utility are not clearly separated between quantity and quality in the standard operating budget detail. As such, a cost of service analysis was used in order to provide a current snapshot of stormwater activities and assign the current budget allocations to quantity and/or quality activities.

The cost of service analysis was initiated by first choosing a test year for analysis. A test year is simply a representative fiscal year used to examine system expenditures and split costs into the quality and quantity components. Given the planned capital expenditures for the Utility in the near future, FY 2021 was chosen

as the test year for analysis. A custom financial model was then populated using the FY 2021 revenue requirements in line item detail as forecasted in the FSA. Next, an interactive work session was conducted with City staff in order to gain operational insights and further support the cost allocation decisions. Stormwater staff provided valuable insights resulting in the allocation of quality and quantity budget portions, the results of which are shown in Table 3.4.

**Table 3.4 Cost Allocation Summary** 

Description	FY 21 Test Year Cost	Quality Portion	<b>Quantity Portion</b>
Stormwater Repair	\$2,337,883	\$0	\$2,337,883
Stormwater General Expenditures	2,128,705	834,164	1,294,541
Stormwater Insurance	241,465	94,622	146,843
Stormwater Watershed Asset Mgmt.	2,129,116	1,515,036	614,080
Swale Cutback	929,196	573,445	355,751
Storm Drain Maintenance	3,587,834	1,435,133	2,152,701
Debt Service	12,789,668	712,337	12,077,331
Bond Coverage Expense <sup>3</sup>	924,390	51,485	872,905
Cash Funded Capital	4,297,025	674,334	3,622,691
Transfer to Special Obligation Bonds	226,715	88,842	137,873
Total	\$29,591,997	\$5,979,398	\$23,612,599
% Allocation	1	20.21%	79.79%

The results of the cost of service analysis, illuminate that in FY 2021, approximately 20% of expenditures were related to water quality activities, while 80% of expenditures were associated with the quantity of stormwater. These results provide a basis for cost apportionment between the stormwater billing basis, as described in the fee design section (Section 3.5) of this report.

### 3.5 STORMWATER FEE DESIGN

This section of the report examines the mechanics of creating a bifurcated stormwater fee and calculates the level of fees for FY 2021. The revenue requirement of the Utility as identified in Section 2 serves as the target level of revenue generation, while the billing units measured for the net effective impervious area and trip generation rate will serve to distribute the revenue requirement to individual parcels consistent with the cost of service analysis results presented in Section 3.4.

<sup>&</sup>lt;sup>3</sup> Bond coverage expense for FY 2021 represents the additional revenue requirement of the Utility to meet its target senior debt service coverage ratio of 1.50, per discussions with City Staff.

### Revenue Requirement

The operational revenue requirement is simply the amount of money that the Utility needs in FY 2021 to cover its expected operating and capital costs. For the purposes of calculating fees, assumptions related to additional costs of collecting the revenue requirement have been added to arrive at the total fee revenue requirement as shown in Table 3.4, assuming the City avails itself of using the non-ad valorem method of collection. Section 5 of this report details the collection methods available to the City, contrasts the benefits, and concludes by recommending the non-ad valorem method of collection. Additional cost assumptions related to collecting the total revenue requirement includes the pre-payment discount, which is assumed at 3% of the operational revenue requirement and accounts for the fact that most fee payers will pay their tax bills early, receiving a discount. Additionally, a standard tax collector fee of 2% of the operational revenue requirement was added to account for the cost of administering the fee thorough the non-ad valorem method. Finally, 1% of the operational revenue requirement has been added to account for non-payment issues that may arise. The summation of the four components of the stormwater fee revenue requirement yields a total revenue requirement of approximately \$31.4 million for FY 2021.

**Table 3.5 Fee Revenue Requirement** 

Fee Revenue Components	FY 2021 Amount
Operational Revenue Requirement	\$29,591,997
Pre-Payment Discount	887,760
Tax Collector Fee	591,840
Non-Collection Contingency	295,920
Total Fee Revenue Requirement	\$31,367,517

The next step in the analysis was to attach the stormwater billing bases to the total fee revenue requirement using the findings from the cost of service analysis performed on the Stormwater Utility for test year FY 2021. This analysis illuminated the fact that the Utility spends approximately 20% of its budget activities on stormwater quality and 80% on stormwater quantity.

Net effective impervious area is by its nature a measurement concerned with identifying the stormwater generation of a parcel. As such, it is recommended that stormwater quantity related costs be attached to the net effective impervious area portion of the stormwater fee basis. Doing so recognizes the strong relationship between the cost the Utility incurs in managing runoff from parcels generating the runoff.

The remaining 20% of the Utility's total fee revenue requirement are associated with water quality activities. Much of the City's stormwater quality impairment comes from debris accumulated in the roadways and consequently many of the City's quality activities take place adjacent to the roadway network. In addition, the Utility funds street sweeping, a critical water quality service that is performed in the roadway. As such,

it is recommended that stormwater quality related costs be attached to the trip generation portion of the stormwater fee basis. Doing so recognizes the relationship that exists between the cost the Utility incurs in managing water quality in and adjacent to roadways with the use of those roadways.

**Table 3.6 Revenue Requirement** 

Fee Revenue Components	FY 2021 Amount	Proportion					
Total Fee Revenue Requirement	\$31,367,517	100%					
Net Effective Impervious Area	25,094,014	80%					
Trip Generation	\$6,273,503	20%					

### Calculation of Net Effective Impervious Fees

With a revenue target established for the net effective impervious area portion of the stormwater fee, the annual fees for FY 2021 can be calculated to capture the correct amount of revenue based on the amount of billable net impervious area in the service area. The first step is to further allocate the revenue requirement between the stormwater fee customer classifications. The customer classes include single-family homes with 3 dwelling units or less (STMS), all other developed parcels (STMC), and undeveloped parcels (STMU). The measurement of net effective impervious area for each customer class is used to proportionately distribute the net effective imperious area component of the revenue requirement. This process is shown in Table 3.7. Upon distributing this portion of the revenue requirement to each customer class, fees are then calculated using defined billing units for each class. Single-family (STMS) homes are billed by dwelling units, whereas developed and undeveloped land are billed per acre of gross parcel area.

Table 3.7 FY 2021 Net Effective Impervious Area Revenue Distribution

Customer Class	NEI (Acres)	Proportion⁴	Revenue Requiremer					
Single-Family (STMS)	2,242	38.4%	\$9,638,642					
Developed Parcels (STMC)	3,337	57.2%	14,345,721					
Undeveloped Parcels	258	4.4%	1,109,651					
Total	5,837	100%	\$25,094,014					

<sup>&</sup>lt;sup>4</sup> Rounded, actual calculations use exact sq. ft. and proportions.

Table 3.8 FY 2021 Net Effective Impervious Area Fee Calculation

Customer Class	Revenue Requirement	Billing Unit (Gross Acres)	Billing Unit (Dwelling Unit)	FY 2021 Annual Fee <sup>5</sup>
Single-Family (STMS)	\$9,638,642		44,070	\$218.71/Dwelling Unit
Developed Parcels (STMC)	\$14,345,721	6,311	:	\$2,273.01/Per Acre
Undeveloped Parcels (STMS)	\$1,109,651	1,957		\$567.00/Per Acre

# Calculation of Trip Generation Fees

For the second component of the bifurcated fee structure, a similar process to the net effective impervious area fee calculation is required. The identified portion of the revenue requirement of approximately \$6.3 million for trip generation-based rates is divided by the total number of trips in the service area to determine the annual fee per trip that would be applied to the number of calculated trips for each parcel.

Table 3.9 FY 2021 Trip Generation Fee Calculation

	Revenue Requirement	Billing Unit (Trips)	FY 2021 Annual Fee <sup>6</sup>
Trip Generation Fee	\$6,273,503	1,497,735	\$4.19/Per Trip

### **Bifurcated Fee Structure Construction**

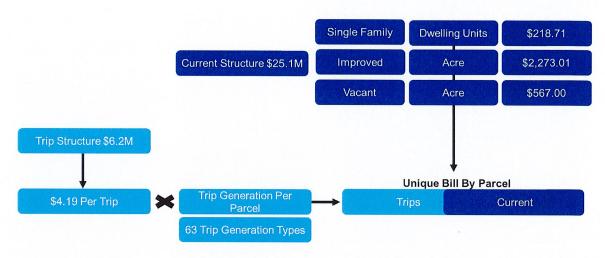
Now that both the net impervious area fee and trip generation fee have been calculated, they can be harmonized into a cohesive framework for assessing stormwater fees within the City of Fort Lauderdale. Figure 3.6 demonstrates the fee decision tree that results in a specific parcel's stormwater fee based on the parcel development characteristics and the calculated fee levels. With regards to the net effective impervious area portion of the fee, a parcel is placed into one of three customer categories, which exist currently in the City, and then charged according to the relevant billing unit and fee per billing unit. The trip generation fee is determined by calculating the trip generation potential of the parcel according to DOR land use and the magnitude of trip drivers on the parcel (sq. ft., dwelling units, etc.) multiplied by the fee

<sup>&</sup>lt;sup>5</sup> Calculation shown with rounded figures, while the fees use exact parameters.

<sup>&</sup>lt;sup>6</sup> Calculation shown with rounded figures, while the fees use exact parameters.

per trip generated. The resulting summation of the net effective impervious fee and the trip generationbased fee results in a parcel-specific annual stormwater fee.

Figure 3.6 Bifurcated Fee Structure



Special Parcel Considerations

There are parcels located within the City that require special considerations when it comes to stormwater billing. These specific categories of parcels are defined and outlined below.

- Exempt These parcels were not included in the apportionment of the stormwater revenue requirement and were not included on the assessment roll. The basis for the categories of parcels included in the exempt property class include the following:
  - Public roads and rights-of-way: These properties serve as key components of the stormwater system.
  - Certain educational establishments have been determined to have sovereign immunity with regards to stormwater fees per legal precedent.
  - Bona-fide agricultural operations: Florida statute exempts these properties from stormwater charges

The properties included in the exempt property class are customarily considered exempt from a stormwater assessment by most communities across the country for similar reasons listed above.

Excluded – Parcels with governmental ownership (these parcels were included in the allocation
of the stormwater revenue requirement but were excluded from the assessment roll as they do
not receive a tax bill). The total assessment amount for these parcels was calculated and is
presented in this study. The City should evaluate its options with regards to revenue recovery
goals for these parcels and determine a policy for this property class.

# 4. PARCEL BILL CHANGES

Understanding the customer impacts associated with the changes and modifications described herein will be critical to successful implementation. The modifications presented in the preceding sections will impact customer bills in several ways. First, the measured billing units for the net effective impervious area portion of the stormwater fee were updated to reflect the most currently available property appraiser data. For a large portion of the parcels in the City, this will result in a lower or higher number of billed units than had been applied before, as a significant amount of time had elapsed since the last full update of the billing units from the property appraiser data in the City's billing system. Secondly, the addition of the trip generation fee structure will result in the recognition of vertical development and high trip generating parcels within the City in the form of a higher fee than has previously been billed. Finally, and most consequential for the service area as a whole is the need for more revenue in FY 2021 as defined in the Financial Sustainability Analysis, indicating the need for a 54% increase in revenues as compared to FY 2020 levels.

The following explanatory bill impacts have been generated in order to provide illustrative examples of how customers will be impacted. Importantly, given the recommended change from the current utility billing to the non-ad valorem method of collection analyzed in the next section, it is difficult to get an apples to apples comparison of bill impacts for every single parcel as would be desired due to the change in ultimate recipient of the stormwater fee and aggregation of parcels/accounts. In order to assist in understanding the full breadth of customer impacts, fee distributions have also been included for the major parcel land uses and display 99% of all stormwater fees calculated for FY 2021. These fee distributions illuminate the clustering of fees and most common fees assessed to parcels in the service area.

Figure 4.1 Single-Family Stormwater Fee Change

Single Family Home (1 Dwelling Unit)	Annual	Monthly
Current	\$168.00	\$14.00
Calculated	\$258.26	\$21.52
Change	\$90.26	\$7.52

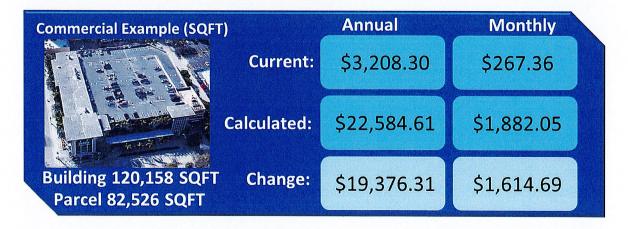
Figure 4.2 Condo Stormwater Fee Change

Condo Example (Dwelling	g Unit)	Annual	Monthly
	Current:	\$42.55	\$3.55
	Calculated:	\$75.76	\$6.31
110 Units	Change:	\$33.21	\$2.77

Figure 4.3 Institutional Stormwater Fee Change

Church Example (SQFT)	Annual	Monthly
Current:	\$1,428.71	\$119.06
Calculated:	\$2,526.32	\$210.53
Building 20,901 SQFT Change: Parcel 36,750 SQFT	\$1,097.61	\$91.47

Figure 4.4 Commercial Stormwater Fee Change

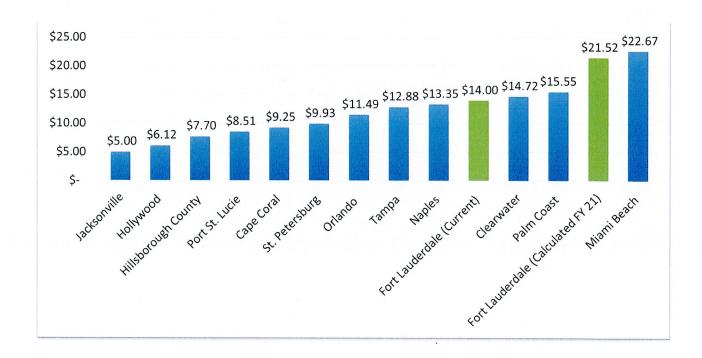


# 4.1 MUNICIPAL STORMWATER FEE COMPARISON

There are currently approximately 180 communities in Florida with stormwater utilities. To provide insight into how stormwater assessment/utility fees from comparable and local communities align with the fees calculated in this study, a local benchmarking comparison was developed. Figure 4.5 presents a comparison of the annual stormwater assessments/fees for local utilities as of November 2019.

Observationally, coastal municipalities that have similar challenges as the City of Fort Lauderdale tend to have higher fees and cluster to the right side of the survey. From an industry perspective, Stantec has noted a significant amount of upward pressure on stormwater fees that will likely result in the continued upward movements of other peer communities over time, much like what the City is experiencing now.

Figure 4.5 Monthly Single-Family Stormwater Fee Benchmarking Comparison



# 5. STORMWATER COLLECTION

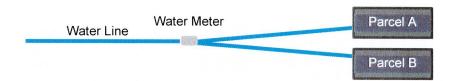
### 5.1 STORMWATER COLLECTION METHODOLOGY EVALUATION

Stormwater revenues are collected from the customers and ultimate beneficiaries of a stormwater system through two standard methods: monthly utility bills or annual non-ad valorem property assessments. The City currently uses the utility billing method and has expressed concerns with regards to managing the required database needed to administer this method. Stantec reviewed the two methods and has the developed the following findings and recommendations.

### Utility Billing Method

This form of billing primarily relies on the existing utility billing infrastructure for water and sewer service in order to bill for stormwater service. For rural and/or communities with a simple flat fee for stormwater, this method can be appropriate and easy to administer with the level of the fee adjusted by the City in a relatively short timeframe. However, the City of Fort Lauderdale is a dense urban service area, which makes utility billing method less than optimal for the collection of stormwater fee revenue for numerous reasons. Utilizing the utility billing method requires that utility billing accounts are mapped to the underlying parcels being served by account. While simple in the case of one utility account to one parcel, there are often cases in which one utility account services multiple parcels. This dynamic is shown simplistically in Figure 5.1 below, in which one utility account and meter is serving two billable stormwater parcels. In practice, there are often very complex utility account to parcel relationships that can change over time. Without a significant amount of administrative resources, the accuracy of the relationship between utility accounts and parcels is often hard to maintain. As parcels are developed or existing parcels are split, the connection between utility accounts and parcels is altered and must be updated to maintain an accurate database. For these reasons, we recommend that the City no longer use the utility account as a means for billing and collecting stormwater fees.

Figure 5.1 Utility Billing Account to Parcel Example



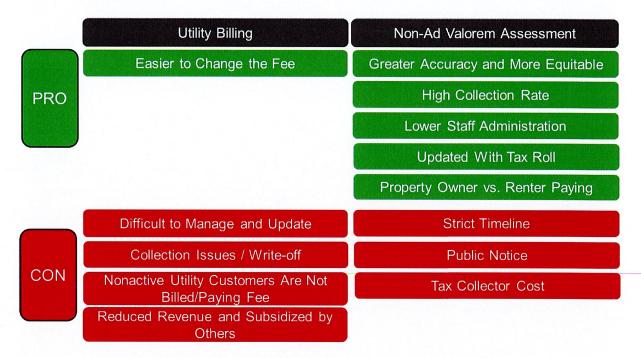
# Non-Ad Valorem Assessment Method

Alternatively, the stormwater revenue requirements can be assessed to property owners directly through a non-ad valorem assessment (FS 197.3632) on the annual property tax bill. In doing so, this method eliminates the need to create utility billing account matches and additionally results in high revenue remittance rates, solving the primary deficiencies that arise in the City of Fort Lauderdale when using the utility billing method. For these reasons, it is recommended that the City switch billing methods to the non-

ad valorem process. While this approach is recommended, there are a few issues that should be recognized. The primary drawbacks to this method arise in the form of strict timelines for the submission of the assessment roll to the tax collector and the cost incurred in collection fees from the tax collector.

The full list of the pros and cons for the two methods considered in the Study are shown in Figure 5.2.

Figure 5.2 Billing Collection Method Comparison



Based upon interaction with the City's Commission, the City has accepted the recommendation to implement a non-ad valorem stormwater assessment and has directed that this Study develop such an assessment program for implementation in FY 2021. As such, the development of stormwater assessment fees and the final assessment roll reflect this assumption. The assessment roll should be updated each year with the most current parcel listing for the service area.

# 5.2 STORMWATER COLLECTION PEER COMPARISON

As part of the analysis, a local benchmarking comparison was developed to compare the stormwater revenue collection methodology employed by other local communities. Table 5.1 provides a summary comparison between local communities that utilize a non-ad valorem assessment collection methodology and those that charge a fee for stormwater services on the utility bill. Through Stantec's state and national experience, a movement from changing the collection method from the utility bill to an annual assessment has been observed and is expected to continue as communities realize the benefits of an annual assessment.

**Utility Bill** Utility Assessment Fort Lauderdale X X Tampa St. Petersburg X Miami Beach X Palm Coast X City of Jacksonville X Hollywood X Cape Coral X X Hillsborough County Port St. Lucie X Orlando X Clearwater X Naples

Table 5.1 Stormwater Revenue Collection Methodology Comparison

### 5.3 FINDING OF BENEFIT

Per Florida Statute 170.201 Non-ad valorem assessments in the State of Florida must meet a two-pronged test. The first prong of the test is that the service being assessed must provide a special benefit to the properties being assessed. The second prong of the test is that the assessments must be fairly and reasonably apportioned to the parcels being assessed and the benefits to the parcels must equal to or exceed the assessment.

# 5.3.1 Special Benefit – The First Requirement

Stormwater management efforts are fundamentally concerned with the systematic management of stormwater runoff in the community, which are primarily driven through the quantity and quality of stormwater delivered to the municipal system. Properties within the City receive a special benefit from the stormwater services provided through annual operation, maintenance, and repairs of the Utility.

The City of Fort Lauderdale's stormwater system serves the property base of the community by receiving runoff from developed parcels and the roadway network during storm events, performing water quality activities, and conveying the stormwater to receiving bodies. This critical function provides for the protection of property during adverse storm events that can cause flooding and maintains clear and passable roads so that parcels are both accessible and usable. All of this results in enhanced property and rental value, marketability, and integrity of the property.

Therefore, the first requirement is met because each property burdened by the assessment will receive a special benefit from the stormwater service provided by the City that exceeds the cost of the assessment.

# 5.3.2 Fair and Reasonable Apportionment – The Second Requirement

In considering the assessment methodology, the second requirement is that the costs must be fairly and reasonably apportioned among the properties that receive the special benefit so that no property is paying more than the benefit received. The stormwater assessment for a property is based on the estimated stormwater generated on the parcel though the net impervious area basis and benefit of clear and passable roads as result of the specific characteristics of the property (i.e. impervious surface and DOR land use), and therefore, the second requirement is met because the assessment is fairly and reasonably apportioned through a detailed methodology to parcels receiving benefit from the stormwater system. Section 3 of this report summarizes the apportionment methodology used to create the assessment and describes the billing basis of the assessment program.

# 6. STUDY RECOMMENDATIONS

Stantec has completed detailed analyses for the City of Fort Lauderdale regarding revenue sufficiency, cost of service, stormwater fee structure modifications, and fee collection method. The preceding sections provide the details of the analysis that was performed for each component of this study. Based upon the analysis presented herein, Stantec offers the following recommendations:

### FINANCIAL SUSTAINABILITY ANALYSIS

• The City should consider adjustments to the level of stormwater fee revenues in the future such that fees can sufficiently provide for the long-term sustainability of the Utility. Based on the needs of the Utility as identified herein, an adjustment of 54% on the stormwater user fee revenues commencing in FY 2021 and 3% annual increases continuing thereafter will provide the needed revenues levels to support the Utility for the next 5 years.

### STORMWATER FEE MODIFICATIONS

- The City should consider the use of a bifurcated stormwater fee that would charge parcels
  based on their net effective impervious area and trip generation potential, the combination
  of which will assign the annual cost of stormwater services based on the benefits received,
  namely the protection of property from flooding and clear & passable roads allowing ingress
  and egress to property.
- Based on a detailed cost allocation of stormwater expenses, the City should consider recovering 80% of the annual revenue requirements of the Utility on net impervious area basis and the remaining 20% on the trip generation basis. Doing so aligns the allocations of cost consistent with the functions of the Utility and benefit derived by properties therefrom.

# STORMWATER FEE COLLECTION METHODOLOGY

The City currently bills stormwater fees on a monthly utility bill with water and sewer services.
 After a careful review of the City's current practices, Stantec has recommended that the City utilize the non-ad valorem special assessment method to collect stormwater fees. Doing so will allow the City to recognize significant benefits, including removing the administrative complexity of matching parcels and utility accounts, greater transparency and higher collection rates.

# IMPLEMENTATION CONSIDERATIONS

• This report provides the framework and methodology for adjusting the City's stormwater user fees to provide for the continued sustainability of stormwater operations. The recommendations herein are expected to be considered by the City's Commission and upon approval would go into effect in November of 2020. The fee calculations provided herein will apply (if approved) to the property appraisals for the FY 2021 certified roll. This may result in slightly more or less revenue than anticipated as the property base characteristics can change from one year to the next, although changes are expected to be minor in comparison to the entire property base.

### Disclaimer

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In preparing this report, Stantec utilized information and data obtained from the City or public and/or industry sources. Stantec has relied on the information and data without independent verification, except only to the extent such verification is expressly described in this document. Any projections of future conditions presented in the document are not intended as predictions, as there may be differences between forecasted and actual results, and those differences may be material.

Additionally, the purpose of this document is to summarize Stantec's analysis and findings related to this project, and it is not intended to address all aspects that may surround the subject area. Therefore, this document may have limitations, assumptions, or reliances on data that are not readily apparent on the face of it. Moreover, the reader should understand that Stantec was called on to provide judgments on a variety of critical factors which are incapable of precise measurement. As such, the use of this document and its findings by the City should only occur after consultation with Stantec, and any use of this document and findings by any other person is done so entirely at their own risk.

# APPENDIX A: FINANCIAL SUSTAINABILITY ANALYSIS SUPPORTING SCHEDULES

- Schedule 1 Assumptions
- Schedule 2 Beginning Balances
- Schedule 3 Cash In
- Schedule 4 Cash Out
- Schedule 5 Cost Escalation Factors
- Schedule 6 Capital Improvement Program
- Schedule 7 FAMS Control Panel
- Schedule 8 Forecast of Net Revenues and Debt Service Coverage
- Schedule 9 Capital Projects Funding Summary
- Schedule 10 Detailed Funding
- Schedule 11 Senior Lien Borrowing Projection

Appendix A: Financial Sustainability Analysis Supporting Schedules

Assumptions	***************************************	M18633MAC4::409000MacAndec504.00	***************************************	***************************************	***	**************************************	M775444.13000793775000074444444			Sc	hedule '
	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Rate Increase Adoption Date	10/1/2018	10/1/2019	10/1/2020	10/1/2021	10/1/2022	10/1/2023	10/1/2024	10/1/2025	10/1/2026	10/1/2027	10/1/202
Annual Growth (1)											
Residential Lots/Parcels											
Ending # of ERCs	42,769	40,687	40,876	41,065	41,254	41,443	41,632	41.821	42,010	42.199	42.389
ERC Growth	N/A	(2,082)	189	189	189	189	189	189	189	189	190
% Change in ERCs	N/A	-4.87%	0.46%	0.46%	0.46%	0.46%	0.46%	0.45%	0.45%	0.45%	0.45%
Commercial Lots/Parcels											
Ending # of ERCs	7,081	6,736	6,745	6,754	6,763	6,772	6,781	6,790	6,799	6.808	6.818
ERC Growth	N/A	(345)	9	9	9	9	9	9	9	9	10
% Change in ERCs	N/A	-4.87%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.15%
Unimproved Land											
Ending # of ERCs	1,737	1,652	1,633	1,614	1,595	1,576	1.557	1,538	1,519	1,500	1,481
ERC Growth	N/A	(85)	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(19)	(19
% Change in ERCs	N/A	-4.87%	-1.18%	-1.16%	-1.18%	-1.19%	-1.21%	-1.22%	-1.24%	-1.25%	-1.27%
Capital Spending											
Annual Capital Budget (Future Year Dollars)	\$ 3.927.221	72,516,311	\$ 137,906,597	\$ 4,292,810 S	4,132,584 \$	4,529,329	4,233,378	\$ 243,170,839	\$ 4,491,191 S	4,625,927 \$	4.764.704
Annual Percent Executed	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Average Annual Interest Earnings Rate											
On Fund Balances	1.93%	1.30%	1.75%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
Operating Budget Reserve											
Target (Number of Months of Reserve)	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Operating Budget Execution Percentage											
Personal Services	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Operations and Maintenance	95%	100%	95%	95%	95%	95%	95%	95%	95%	95%	95%
Capital Outlay	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
(1) Change in ERC in FY 2020 are reflective a	f a baselining to budg	net									

# FY 2019 Beginning Balances as of 10/1/2018

	Re	evenue Fund
Current Unrestricted Assets		
Cash and Cash Equivalents	\$	12,054,927
Receivables:	1 1 × × ×	2,031,427
Due from Other Governments		36,109
Total Assets	\$	14,122,463
Current Liabilities		
Accounts and Contracts Payable	\$	(296,163)
Unearned Revenues		(569,604)
Other Accrued Liabilities		(32,853)
CALCULATED FUND BALANCE (ASSETS - LIABILITIES)	\$	13,223,843
Plus/(Less): Unencumbered Balances on Projects		(5,184,018)
Plus/(Less): Encumbered Balances on Projects		(1,420,607)
Plus/(Less): Operating Encumberances		(1,444,432)
NET UNRESTRICTED FUND BALANCE	\$	5,174,786
Available Fund Balance	\$	5,174,786

Relevenue Growth Assumptions   Part		jection of Cash Inflows	#3034030E04040	MATERIA MATERI	******	0033744444444444	CARRELL	***********	000000	******************	904430			***************************************	*****	************	1000000	******		*************	vzate	***************************************	20	chedule
Second   Compace   Compa				FY 2019		FY 2020 <sup>1</sup>		FY 2021		FY 2022		FY 2023		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029
Second   S	1																							
Commercial Lots/Parcels   Commercial Lots/Parcels   Commercial Lots/Parcels   Commercial Lots/Parcels   Rate Increase   N/A	2																							
Mary	3	% Change in Revenue		N/A		-4.87%		0.46%		0.46%		0.46%		0.46%		0.46%		0.45%		0.45%		0.45%		0.45%
	4	Commercial Lots/Parcels																						
Schange in Revenue   N/A   4.87%   -1.18%   -1.18%   -1.18%   -1.19%   -1.21%   -1.22%   -1	5	% Change in Revenue		N/A		-4.87%		0.13%		0.13%		0.13%		0.13%		0.13%		0.13%		0.13%		0.13%		0.15%
8 Assumed Rate Revenue Increases 9 Assumed Rate Increase 1 NA 16.67% 54.00% 3.00% 3.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 3.00% 3.00% 65.00% 50.0	6	Unimproved Land																						
Sammed Residential Loss/Parcels Rate Increase	7	% Change in Revenue		N/A		-4.87%		-1.18%		-1.16%		-1.18%		-1.19%		-1.21%		-1.22%		-1.24%		-1.25%		-1.27%
Assumed Commercial Lots/Parcels Rate Increase	8	Assumed Rate Revenue Increases																						
Mathematical Commercial Lots/Parcels Rate Increase   N/A   16.67%   54.00%   3.00%	9	Assumed Residential Lots/Parcels Rate Increase		N/A		16.67%		54.00%		3.00%		3.00%		3.00%		3.00%		65.00%		3.00%		3.00%		3.00%
Name	0	Assumed Commercial Lots/Parcels Rate Increase		N/A		16.67%		54.00%		3.00%		3.00%		3.00%										3.00%
Residential Lots/Parcels Revenue	1	Assumed Unimproved Land Rate Increase		N/A		16.67%		54.00%		3.00%		3.00%		3.00%										3.00%
4 Commercial Lots/Parcels Revenue 10,304,399 11,436,765 17,636,150 18,189,472 18,760,122 19,346,640 19,955,585 32,970,417 34,046,542 32,071,041 18,189,772 18,180,180 18,189,472 18,180,180 18,189,472 18,180,180 18,189,472 18,180,180 18,180,472 18,180,472	2	Stormwater Rate Revenue																						
4 Commercial Lots/Parcels Revenue 10,304,399 11,346,765 17,636,150 18,189,472 18,760,122 19,348,640 19,955,885 32,970,417 34,004,542 35,071,041 19,000 19,00	3	Residential Lots/Parcels Revenue	\$	6,174,208	S	6,852,701	\$	10,602,181	S	10,970,739	S	11,351,868	S	11.745.992	S	12.153.546	S	20.144.389	S	20 842 489	S	21 564 346	9	22.311.2
Summarie Revenue   Summarie Rate Rate Rate Rate Rate Rate Rate Rat	4	Commercial Lots/Parcels Revenue		10,304,399		11,436,765		17,636,150		18, 189, 472		18,760,122									•		•	36,176,2
6 Tolas Stormwater Rate Revenue \$ 17,280,000 \$ 19,178,924 \$ 29,591,997 \$ 30,538,265 \$ 31,514,676 \$ 32,522,188 \$ 33,561,787 \$ 55,482,439 \$ 57,255,567 \$ 59,085,149 \$ 7 Other Operating Revenue WITTE OF RECOVERIES \$ 9,000 \$ 9,	5			801,392		889,459		1,353,666		1,378,053		1,402,686		1,427,556		1,452,656								2,491,29
8 WRIE OFF RECOVERIES \$ 9,00 \$	6	Total Stormwater Rate Revenue	\$	17,280,000	\$	19,178,924	\$	29,591,997	S	30,538,265	\$	31,514,676	\$	32,522,188	\$	33,561,787	\$	55,482,439	\$	57,255,567	\$		\$	60,978,8
9 PW/OTHER-INTERFUND SVC CHG 30,000 5 5	7																							
Description   Part	8		\$	9,000	\$	9,000	\$	9,000	\$	9,000	S	9,000	S	9,000	S	9,000	S	9,000	\$	9,000	S	9.000	S	9.0
PAWOTHER-INTERFUND SVC CHG   20,000   51,000								× :										-						
2 OTHER INCOME (PENALTY CHARGES) 51,000 51,000 200,000																								
Rodineering Name   State   S	1			20,000		-																		
Total Other Operating Revenue	2			51,000		51,000		51,000		51,000		51,000		51,000		51,000		51,000		51,000		51.000		51.0
Interest Income										200,000		200,000		200,000		200,000		200,000		200,000		200,000		200,0
Unrestricted   S   142,648   S   130,913   S   237,870   S   353,368   S   385,492   S   407,311   S   434,949   S   576,490   S   788,693   S   972,711   S   788,6616	4	Total Other Operating Revenue	\$	360,000	\$	260,000	\$	260,000	\$	260,000	\$	260,000	\$	260,000	\$	260,000	\$	260,000	\$	260,000	\$	260,000	\$	260,0
Restricted - 27,853 149,469 255,793 255,793 255,793 255,793 405,554 555,314 555,314 555,314 555,314 510,100,100,100,100,100,100,100,100,100,	5	Interest Income																						
7 Restricted - 27.853 149,469 255,793 255,793 255,793 405,554 555,314 555,314  8 Total Interest Income \$ 142,648 \$ 158,766 \$ 387,340 \$ 609,161 \$ 641,285 \$ 663,104 \$ 690,742 \$ 982,044 \$ 1,344,006 \$ 1,528,024 \$			\$	142,648	\$		\$	237,870	\$	353,368	\$	385,492	\$	407,311	S	434,949	\$	576,490	\$	788,693	S	972,711	S	1,173,8
8 Total Interest Income \$ 142,648 \$ 158,766 \$ 387,340 \$ 609,161 \$ 641,285 \$ 663,104 \$ 690,742 \$ 982,044 \$ 1,344,006 \$ 1,528,024 \$										255,793		255,793		255,793		255,793		405,554						555,3
7.10.116	8	Total Interest Income	\$	142,648	\$	158,766	\$	387,340	\$	609,161	\$	641,285	\$	663,104	\$	690,742	\$	982,044	\$	1,344,006	\$		\$	1,729,1
29 Total Cash Inflows \$ 17,782,648 \$ 19,597,690 \$ 30,239,337 \$ 31,407,426 \$ 32,415,962 \$ 33,445,292 \$ 34,512,529 \$ 56,724,482 \$ 58,859,573 \$ 60,873,173 \$	29	Total Cash Inflows	S	17,782,648	s	19,597,690	s	30,239,337	S	31,407,426	s	32,415,962		22 445 222	_	34,512,529	_	56.724.482	_		_			62.967.9

Negative growth in FY 2020 of -4.87% represents a calibration of calculated revenues to the City's budgeted revenues. The assumed rate increase of 16.67% represents the City's proposed adjustment to rates for FY 2020 (\$12.00 to \$14.00 a month per single family residential.

	Index	6bbis	Former Man Ham		FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
	index	Subobject	Expense Line Item Stormwater Fund (470)												
2			Personal Services												
3	PBS660505	1504	OVERTIME 1X PAY	s	2,184	\$ 2,293	\$ 2,419	\$ 2,552	\$ 2,693	\$ 2,841	\$ 2,997	\$ 3,162	\$ 3,336	\$ 3.519	
	PBS660502	1501	OVERTIME 1.5X PAY		22,932	24,079	25.403	26,801	28.275	29.830	31,470	33,201	35.027	36,954	\$ 3,713
	PBS660505	1501	OVERTIME 1.5X PAY		91,728	96,314	101,611	107,200	113,096	119,316	125,879	132,802	140,106	147,812	155,94
	PBS660511	1501	OVERTIME 1.5X PAY		60,060	63,063	66,531	70,191	74,051	78,124	82.421	86,954	91,736	96,782	102,10
	PBS660502	1201	LONGEVITY PAY		5,516	3,866	4.079	4.303	4,540	4,789	5,053	5,331	5,624	5.933	6,25
	PBS660505	1201	LONGEVITY PAY		4,400	4,400	4,642	4,897	5,167	5,451	5,751	6.067	6,401	6.753	7,12
	PBS660511	1201	LONGEVITY PAY		10,606	12,283	12,959	13,671	14,423	15,216	16,053	16.936	17,868	18,851	19,88
	PBS660502	1313	STANDBY PAY		9,000	9,424	9,942	10,489	11,066	11,675	12,317	12,994	13,709	14,463	15.25
	PBS660505	1313	STANDBY PAY		9,000	5,890	6,214	6,556	6,916	7.297	7.698	8.121	8,568	9,039	9,53
	PBS660511	1313	STANDBY PAY		15,000	17,670	18,642	19,667	20,749	21,890	23,094	24,364	25,704	27,118	28,60
	PBS660502	1304	ASSIGNMENT PAY		914								-	21,110	20,00
	PBS660511	1310	SHIFT DIFFERENTIAL		392	390	411	434	458	483	510	538	567	599	63
	PBS660502	1101	PERMANENT SALARIES		544,530	572,860	604,367	637,608	672,676	709,673	748,705	789,884	833.328	879,161	927.51
	PBS660505	1101	PERMANENT SALARIES		224,931	269,555	284,381	300,021	316,523	333,931	352,298	371,674	392,116	413,682	436,43
	PBS660511	1101	PERMANENT SALARIES		828,859	931,479	982,710	1,036,759	1,093,781	1,153,939	1,217,406	1,284,363	1,355,003	1,429,528	1,508,15
	PBS660511	1401	CAR ALLOWANCES		3,000	7,080	7,080	7,080	7,080	7,080	7,080	7,080	7,080	7,080	7,08
	PBS660502	1407	EXPENSE ALLOWANCES		960					-			-		
	PBS660511	1407	EXPENSE ALLOWANCES		1,920	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1.44
	PBS660502	1413	CELLPHONE ALLOWANCE		1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,440	1,44
	PBS660511	1413	CELLPHONE ALLOWANCE		4,080	3,120	3,120	3,120	3,120	3,120	3,120	3,120	3,120	3,120	3,12
	PBS690603	1201	LONGEVITY PAY		1,724	1,724	1,819	1,919	2,024	2,136	2,253	2,377	2,508	2,646	2,7
	PBS690603	1101	PERMANENT SALARIES		391,582	430,441	454,115	479,092	505,442	533,241	562,569	593,510	626,154	660,592	696,9
	PBS690603	1407	EXPENSE ALLOWANCES		5,760			10							-
	PBS690603	1413	CELLPHONE ALLOWANCE		1,920	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,40
	PBS660502	2301	SOC SEC/MEDICARE		42,522	44,121	46,548	49,108	51,809	54,658	57,664	60,836	64,182	67,712	71,4
	PBS660505	2301	SOC SEC/MEDICARE		18, 103	20,959	22,112	23,328	24,611	25,965	27,393	28,899	30,489	32,165	33,93
	PBS660511	2301	SOC SEC/MEDICARE		65,596	72,227	76,199	80,390	84,812	89,477	94,398	99,590	105,067	110,846	116,9
	PBS660511	2119	WELLNESS INCENTIVES			3,500	3,693	3,896	4,110	4,336	4,574	4,826	5,091	5,371	5,6
	PBS660502	2404	HEALTH INSURANCE		113,037	121,841	128,542	135,612	143,071	150,940	159,241	168,000	177,240	186,988	197,2
	PBS660505 PBS660511	2404 2404	HEALTH INSURANCE		50,835	54,840	57,856	61,038	64,395	67,937	71,674	75,616	79,775	84,162	88,7
			HEALTH INSURANCE		155,267	167,261	176,460	186,166	196,405	207,207	218,603	230,627	243,311	256,693	270,8
	PBS660502 PBS660505	2299 2299	PENSION - DEF CONT		20,709	26,374	27,825	29,355	30,969	32,673	34,470	36,366	38,366	40,476	42,7
	PBS660511	2299	PENSION - DEF CONT		10,887	14,006	14,776	15,589	16,446	17,351	18,305	19,312	20,374	21,495	22,6
	PBS660502	2299	PENSION - DEF CONT		31,075	26,912	28,392	29,954	31,601	33,339	35,173	37,107	39,148	41,301	43,5
	PBS660505	2204	PENSION - GENERAL EMP		53,403	50,322	53,090	56,010	59,090	62,340	65,769	69,386	73,202	77,228	81,47
	PBS660511	2204	PENSION - GENERAL EMP		29,973	20,992	22,147	23,365	24,650	26,005	27,436	28,945	30,537	32,216	33,9
	PBS690603	2301	PENSION - GENERAL EMP SOC SEC/MEDICARE		91,017 30,675	135,768 33.060	143,235	151,113	159,424	168,193	177,443	187,203	197,499	208,361	219,8
	PBS690603	2119	WELLNESS INCENTIVES		30,675	1,000	34,878 1,055	36,797	38,820	40,956	43,208	45,585	48,092	50,737	53,52
	PBS690603	2404	HEALTH INSURANCE		55.610	59,784		1,113	1,174	1,239	1,307	1,379	1,455	1,535	1,6
	PBS690603	2299	PENSION - DEF CONT		26,472	29,591	63,072 31,219	66,541 32,936	70,201	74,062	78,135	82,433	86,967	91,750	96,79
	PBS700402	2410	WORKERS' COMP		87,449	55,664	57.056	58,482	34,747	36,658	38,674	40,801	43,045	45,413	47,9
	PBS660502	2119	WELLNESS INCENTIVES		07,449	500	505	58,482	59,944	61,443	62,979	64,553	66,167	67,821	69,5
	PBS690603	2204	PENSION - GENERAL EMP		18,723	18,337	18.520	18.706	515 18,893	520 19.082	526	531	536	541	5-
	PBS660502	1199	OTHER REG SALARIES		1.369	10,337	16,520	18,706	18,893	19,082	19,272	19,465	19,660	19,856	20,05
	PBS660505	1199	OTHER REG SALARIES		2,847					-	-				
	PBS660511	1199	OTHER REG SALARIES		7,172						-	-	-		-
	PBS660502	1401	CAR ALLOWANCES		7,172	3,000	3,000	3,000	3,000	3.000	3.000	3,000	3.000		-
	PBS690603	1401	CAR ALLOWANCES			15,000	15,000	15.000	15,000	15,000				3,000	3,0
	PBS700402	1801	CORE ADJUSTMENTS		27,500	10,000	13,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,0
	PBS660502	1801	CORE ADJUSTMENTS		27,000	(10,207)	(10,768)	(11,361)	(11,985)	(12,645)				(45,005)	
	PBS660505	1801	CORE ADJUSTMENTS			86.998	91,783	96,831	102,157	107.775	(13,340) 113,703	(14,074)	(14,848)		(16,5
	PBS660511	1801	CORE ADJUSTMENTS			209,816	221,356	233,530	246,375	259.925	274,221	119,957 289,303	126,554 305,215	133,515	140,8
	PBS660502	2402	LIFE INSURANCE			369	378	233,330	397	259,925	417	289,303 428	305,215 439	322,002	339,7
	PBS660505	2402	LIFE INSURANCE			174	178	183	187	192	197	428 202	207	450	4
	PBS660511	2402	LIFE INSURANCE			600	615	630	646	662	679	202 696		212	2
	PBS690603	2402	LIFE INSURANCE		0.00	277	284	291	298	306	313	321	713 329	731 337	7.

				FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
	Index	Subobject	Expense Line Item			202 .		11 2025	112024	1 1 2025	FT 2020	F1 2027	FT 2028	FT 2029
60			Operations & Maintenance											
61	PBS660502	3949	UNIFORMS		\$ 4,500	\$ 4,545	\$ 4,590	\$ 4,636	\$ 4,683	\$ 4,730	\$ 4,777	\$ 4.825	\$ 4,873	\$ 4.9
62		3949	UNIFORMS	1,550	2,500	2,525	2,550	2,576	2,602	2,628	2,654	2,680	2,707	2,7
63		3949	UNIFORMS	2,400	8,000	8,080	8,161	8,242	8,325	8,408	8,492	8,577	8,663	8.7
64	PBS660502	3940	SAFETY SHOES	2,250	2,250	2,273	2,295	2,318	2,341	2,365	2,388	2,412	2,436	2,4
35	PBS660505	3940	SAFETY SHOES	2,000	1,250	1,263	1,275	1,288	1,301	1,314	1,327	1,340	1,354	1,3
6	PBS660511	3940	SAFETY SHOES	4,000	4,250	4,293	4,335	4,379	4,423	4,467	4,511	4,557	4,602	4,6
7	PBS660502	3999	OTHER SUPPLIES	11,500	7,500	7,575	7,651	7,727	7,805	7,883	7,961	8.041	8,121	8,3
8	PBS660505	3999	OTHER SUPPLIES	1,000	5,000	5,050	5,101	5,152	5,203	5,255	5,308	5,361	5,414	5,4
9	PBS660511	3999	OTHER SUPPLIES	1,000	1,000	1,010	1,020	1,030	1,041	1,051	1,062	1,072	1,083	1,
0		3928	OFFICE SUPPLIES	500									-	
1	PBS660505	3928	OFFICE SUPPLIES	1,500	1,500	1,515	1,530	1,545	1,561	1,577	1,592	1,608	1,624	1
2		3928	OFFICE SUPPLIES	500	1,000	1,010	1,020	1,030	1,041	1,051	1,062	1,072	1,083	1
3		3913	HORTICULTURAL SUP	6,000	6,000	6,060	6,121	6,182	6,244	6,306	6,369	6,433	6,497	6
4		3913	HORTICULTURAL SUP	60,000	49,000	49,490	49,985	50,485	50,990	51,499	52,014	52,535	53,060	53.
5	PBS660502	3946	TOOLS/EQUIP < \$5000	8,000	10,000	10,100	10,201	10,303	10,406	10,510	10,615	10,721	10,829	10
5	PBS660511	3946	TOOLS/EQUIP < \$5000	2,000		-	-			-				
7	PBS660502	3925	OFFICE EQUIP < \$5000	2,000	2,000	2,020	2,040	2,061	2,081	2,102	2,123	2,144	2,166	2
8	PBS660505	3925	OFFICE EQUIP < \$5000	600	600	606	612	618	624	631	637	643	650	
•	PBS660511	3925	OFFICE EQUIP < \$5000	2,000	1,000	1,010	1,020	1,030	1,041	1,051	1,062	1,072	1,083	1
	PBS660502	3299	OTHER SERVICES		5,000	5,050	5,101	5,152	5,203	5,255	5,308	5,361	5.414	5
	PBS660505	3299	OTHER SERVICES		50,125	50,626	51,133	51,644	52,160	52,682	53,209	53,741	54,278	54
	PBS660511	3299	OTHER SERVICES		120,000	121,200	122,412	123,636	124,872	126,121	127,382	128,656	129,943	131
	PBS660511	3216	COSTS/FEES/PERMITS	2,100	3,025	3,055	3,086	3,117	3,148	3,179	3.211	3.243	3.276	
:	PBS660502	3228	DISPOSAL (TIP) FEES	32,500	32,500	32,825	33, 153	33,485	33,820	34,158	34,499	34,844	35.193	35
	PBS660505	3228	DISPOSAL (TIP) FEES	32,500	32,500	32,825	33,153	33,485	33,820	34,158	34,499	34,844	35,193	35
	PBS660511	3228	DISPOSAL (TIP) FEES	71,000	65,000	65,650	66,307	66,970	67,639	68,316	68,999	69.689	70,386	7
	PBS660502	3255	SOLID WASTE COLLECTIONS	5,000			-					-	70,000	
	PBS660511	3255	SOLID WASTE COLLECTIONS	15,940	15,000	15, 150	15,302	15,455	15,609	15,765	15,923	16,082	16,243	16
١	PBS660502	3437	IMP REP & MAINT	1,100,000	1,200,000	1,212,000	1,224,120	1,236,361	1.248.725	1,261,212	1,273,824	1,286,562	1,299,428	1,312
	PBS660502	3404	COMPONENTS/PARTS	75,000	50,000	50,500	51,005	51,515	52.030	52,551	53,076	53,607	54,143	54
	PBS660505	3404	COMPONENTS/PARTS	5,000	5,000	5,050	5,101	5,152	5,203	5,255	5,308	5,361	5,414	
	PBS660511	3404	COMPONENTS/PARTS	150,000	458,200	462,782	467,410	472,084	476,805	481,573	486,389	491,252	496,165	501
	PBS660502	3407	EQUIP REP & MAINT	1,000	1,000	1.010	1,020	1,030	1,041	1,051	1,062	1,072	1,083	301
	PBS660511	3407	EQUIP REP & MAINT	6,000	6,000	6.060	6,121	6,182	6,244	6,306	6.369	6,433	6.497	6
	PBS660502	3434	IMP REP MATERIALS	50,000	25,000	25,250	25,503	25,758	26,015	26,275	26,538	26,803	27.071	2
	PBS660505	3434	IMP REP MATERIALS	6,000	6,000	6.060	6,121	6,182	6,244	6,306	6,369	6,433	6,497	-
	PBS660505	3301	HEAVY EQUIP RENT	4,000	4,000	4,040	4,080	4,121	4,162	4,204	4.246	4,289	4,331	
	PBS660502	3310	OTHER EQUIP RENT	37,000	27,000	27,270	27,543	27.818	28,096	28.377	28.661	28.948	29,237	29
	PBS660505	3310	OTHER EQUIP RENT	3,000	3,000	3,030	3,060	3,091	3,122	3,153	3,185	3,216	3,249	25
	PBS660502	3801	GASOLINE	2,626	25	26	27	27	28	29	3,163	3,210	3,249	,
	PBS660505	3801	GASOLINE	7,156	4,138	4,266	4,399	4.535	4,675	4,820	4,970	5,124		
	PBS660511	3801	GASOLINE	10,993	2,304	2,375	2,449	2.525	2,603	2,684	2,767	2.853	5,283 2,941	
		3804	DIESEL FUEL	13,671	11,575	11,934	12,304	12.685	13,078	13.484				
		3804	DIESEL FUEL	19,522	17.040	17.568	18,113	18,674	19,253	19,850	13,902 20,465	14,333 21,100	14,777	15
		3804	DIESEL FUEL	29,537	27,563	28,417	29,298	30,207	31,143	32,108	33,104	21,100 34,130	21,754 35,188	2:
		3199	OTHER PROF SERV	171,000	2.,000	20,417	20,230	50,207	31,143	32,108	33,104	34,130	35,188	36
	PBS660505	3199	OTHER PROF SERV	50.125							-			
		3199	OTHER PROF SERV	120,000									-	
		3198	BACKFLOW PROGRAM	145	145	146	148	149	151	152	154	155		
	PBS660511	3198	BACKFLOW PROGRAM	145	145	146	148	149	151	152	154 154		157	
	PBS660511	3601	ELECTRICITY	43,700	52,669	53,722	54,797	55,893	57,011	58.151		155	157	
		3634	WATER/SEW/STORM	89	95	96	97	98	99		59,314	60,500	61,710	62
		3634	WATER/SEW/STORM	876	417	421	425	430	434	100	101	102	103	
	PBS660511	3634	WATER/SEW/STORM	1,934	2,032	2.052	2.073	2.094		438	443	447	452	
	PBS660502	3628	TELEPHONE/CABLE TV	4,700	4.300	4.343			2,115	2,136	2,157	2,179	2,200	
		3628	TELEPHONE/CABLE TV	4,700	4,300 3.900		4,386	4,430	4,475	4,519	4,565	4,610	4,656	
	PBS660505 PBS660511	3628	TELEPHONE/CABLE TV	4,300 6,700		3,939	3,978	4,018	4,058	4,099	4,140	4,181	4,223	
		3999	OTHER SUPPLIES		6,700	6,767	6,835	6,903	6,972	7,042	7,112	7,183	7,255	
				3,400	4,000	4,040	4,080	4,121	4,162	4,204	4,246	4,289	4,331	
	PBS690603	3928	OFFICE SUPPLIES	200	2,000	2,020	2,040	2,061	2,081	2,102	2,123	2,144	2,166	
	PBS690603	3201	AD/MARKETING	2,500	2,500	2,525	2,550	2,576	2,602	2,628	2,654	2,680	2,707	
	PBS690603	3299	OTHER SERVICES	5,000	152,000	153,520	155,055	156,606	158,172	159,754	161,351	162,965	164,594	166
		3216	COSTS/FEES/PERMITS	37,334	24,000	24,240	24,482	24,727	24,974	25,224	25,476	25,731	25,989	2
		3801	GASOLINE	1,867	1,294	1,334	1,375	1,418	1,462	1,507	1,554	1,602	1,652	1
	PBS690603	3807	OIL & LUBRICANTS		100	103	106	110	113	116	120	124	128	
	PBS690603	3199	OTHER PROF SERV	77,940	77,940	78,719	79,507	80,302	81,105	81,916	82,735	83,562	84.398	8

	Index PBS700402 PBS700102 PBS860502 PBS860501 PBS860505 PBS860505 PBS860505 PBS860501 PBS860501 PBS860501 PBS860501 PBS860505 PBS860505 PBS860505 PBS860505 PBS860505 PBS860505 PBS860505 PBS860505 PBS860505	3319 3101 4116 4116 4104 4104 4104 4113 4101 4101 4101 4308 4308 4308 4361 4373	Expense Line Item OFFICE SPACE RENT ACCT & AUDITING SCHOOLS SCHOOLS CONFERENCES CONFERENCES CONFERENCES CONFERENCES CONFERENCES CERTIFICATION TRAIN CERTIFICATION TRAIN CURNEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	100,000 2,436 24,350 3,000 2,500 5,000 1,380 1,300 5,000 1,500 5,000	102,000	103,020 3,032 - - - - -	104,050 3,062 - - - - -	105,091 3,093 - -	106,142 3,124 -	107,203 3,155 -	108,275 3,187	109,358 3,219 -	FY 2028 110,451 3,251	FY 2029 111,55 3,28
	PBS700102 PBS660502 PBS660501 PBS660505 PBS660505 PBS660501 PBS660501 PBS660502 PBS660502 PBS660501 PBS660501 PBS660501 PBS660505 PBS660505 PBS660505 PBS660505 PBS660505 PBS660505 PBS660505 PBS660505 PBS660505	3101 4116 4116 4104 4104 4101 4101 4101 4	ACCT & AUDITING SCHOOLS SCHOOLS SCHOOLS CONFERENCES CONFERENCES CONFERENCES MEMBERSHIP'SIDUES CERTIFICATION TRAIN CERTIFICATION TRAIN CURNEDAD-TEET OVERHEAD-TEET OVERHEAD-TEET OVERHEAD-TEET	2,436 24,350 3,000 2,500 2,500 1,380 1,300 1,500 5,000										
6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 6 7 7	PBS660502 PBS660501 PBS660502 PBS660505 PBS660505 PBS660501 PBS660502 PBS660505 PBS660505 PBS660505 PBS660501 PBS660501 PBS660505 PBS660505 PBS660505 PBS660505	4116 4116 4104 4104 4104 4113 4101 4101 4308 4308 4308 4361 4373	SCHOOLS SCHOOLS CONFERENCES CONFERENCES CONFERENCES MEMBERSHIPS/DUES CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	24,350 3,000 2,500 2,500 5,000 1,380 1,300 1,500 5,000	3,002	3,032	3,062	3,093	3,124	3,155	3,187	3,219	3,251	3,28
6 6 6 6 6 6 6 6 6 6 6 6 6 7 7	PBS660511 PBS660502 PBS660505 PBS660511 PBS660501 PBS660505	4116 4104 4104 4104 4104 4101 4101 4101	SCHOOLS CONFERENCES CONFERENCES CONFERENCES MEMBERSHIPS/IDLES CERTIFICATION TRAIN CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-REET OVERHEAD-REET OVERHEAD-REET	3,000 2,500 2,500 5,000 1,380 1,300 1,500 5,000				:						
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7	PBS660502 PBS660505 PBS660511 PBS660511 PBS660505 PBS660505 PBS660505 PBS660502 PBS6605011 PBS6605011 PBS660505 PBS660505 PBS660505 PBS660505	4104 4104 4104 4113 4101 4101 4308 4308 4308 4361 4373	CONFERENCES CONFERENCES CONFERENCES MEMBERSHIPSIQUES CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	2,500 2,500 5,000 1,380 1,300 1,500 5,000										
F F F F F F F F F F F F F F F F F F F	PBS660505 PBS660511 PBS660501 PBS660502 PBS660505 PBS660502 PBS660502 PBS660505 PBS660511 PBS660505 PBS660505 PBS660505 PBS660505 PBS660505	4104 4104 4113 4101 4101 4101 4308 4308 4361 4373	CONFERENCES CONFERENCES MEMBERSHIPS/DUES CERTIFICATION TRAIN CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	2,500 5,000 1,380 1,300 1,500 5,000 13,427										
F F F F F F F F F F F F F F F F F F F	PBS660511 PBS660501 PBS660505 PBS660505 PBS660505 PBS660501 PBS660505 PBS660501 PBS660501 PBS660501 PBS660501 PBS660505 PBS660505 PBS660511	4104 4113 4101 4101 4101 4308 4308 4308 4361 4373	CONFERENCES MEMBERSHIPSIDUES CERTIFICATION TRAIN CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	5,000 1,380 1,300 1,500 5,000 13,427				-						
6 6 6 6 6 6 6 6 6 6 6	PBS660511 PBS660502 PBS660505 PBS660501 PBS660502 PBS660505 PBS660511 PBS660511 PBS660502 PBS660505 PBS660511	4113 4101 4101 4101 4308 4308 4308 4361 4373	MEMBERSHIPSIDUES CERTIFICATION TRAIN CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	1,380 1,300 1,500 5,000 13,427					-					
F F F F F F F F F F F F F F F F F F F	PBS660502 PBS660505 PBS6605011 PBS660502 PBS660505 PBS660511 PBS660502 PBS660505 PBS660505	4101 4101 4101 4308 4308 4308 4361 4373	CERTIFICATION TRAIN CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	1,300 1,500 5,000 13,427				-	-					
F F F F F F F F F F F F F F F F F F F	PBS660505 PBS660511 PBS660502 PBS660505 PBS660511 PBS660511 PBS660502 PBS660505 PBS660511	4101 4101 4308 4308 4308 4361 4373	CERTIFICATION TRAIN CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	1,500 5,000 13,427										
F F F	PBS660511 PBS660502 PBS660505 PBS660511 PBS660511 PBS660502 PBS660505 PBS660511	4101 4308 4308 4308 4361 4373	CERTIFICATION TRAIN OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	5,000 13,427		-								
F F F	PBS660502 PBS660505 PBS660511 PBS660511 PBS660502 PBS660505 PBS660511	4308 4308 4308 4361 4373	OVERHEAD-FLEET OVERHEAD-FLEET OVERHEAD-FLEET	13,427					12 11			-		
F F	PBS660505 PBS660511 PBS660511 PBS660502 PBS660505 PBS660511	4308 4308 4361 4373	OVERHEAD-FLEET OVERHEAD-FLEET											
F	PBS660511 PBS660511 PBS660502 PBS660505 PBS660511	4308 4361 4373	OVERHEAD-FLEET		25,936	26, 195	26,457	26,722	26,989	27,259	27,532	27,807	28.085	28.
E E	PBS660511 PBS660502 PBS660505 PBS660511	4361 4373		40,011	32,576	32,902	33,231	33,563	33,899	34,238	34,580	34,926	35,275	35.
F	PBS660502 PBS660505 PBS660511	4373		23,807	17,982	18, 162	18,343	18,527	18,712	18,899	19,088	19,279	19,472	19,
F	PBS660505 PBS660511		SERVCHG-PUB WORKS	144,000	-		-						10,412	13,
F	PBS660511		SERVCHG-FLEET O&M	37,156	76,895	79,584	86,618	93.739	101,012	108,405	115,926	123,582	131,379	139,
F	PBS660511	4373	SERVCHG-FLEET O&M	119,623	100,059	103,559	112,711	121,978	131,441	141,061	150.848	160,810	170.956	181,
		4373	SERVCHG-FLEET O&M	73,208	50,521	52,288	56,909	61,588	66,366	71,224	76.165	81,195	86,318	91,
		4213	RETIREE HEALTH BENE	11,200	7,200	7,272	7,345	7,418	7,492	7,567	7,643	7,719	7,797	
F	PBS660505	4213	RETIREE HEALTH BENE	2,400	2,400	2,424	2,448	2.473	2,497	2,522	2,548			7,
	PBS660511	4213	RETIREE HEALTH BENE	2,400	2,400	2,424	2,448	2,473	2,497	2,522	2,548	2,573	2,599	2,
	PBS690603	4104	CONFERENCES	7.950	2,400	2,424	2,440	2,413	2,497	2,322	2,548	2,573	2,599	2,
	PBS690603	4113	MEMBERSHIPS/DUES	6,000							-			
	PBS690603	4101											-	
		4308	CERTIFICATION TRAIN	12,680		1	1.0							
	PBS690603		OVERHEAD-FLEET	878	709	716	723	730	738	745	753	760	768	
	PBS690603	4373	SERVCHG-FLEET O&M	1,990	1,279	1,324	1,441	1,559	1,680	1,803	1,928	2,056	2,185	2,
	PBS690603	4355	SERVCHG-PRINT SHOP	1,000	1,000	1,035	1,126	1,219	1,314	1,410	1,508	1,607	1,709	1
	PBS700102	4343	SERVCHG-INFO SYS	110,803	123,280	127,592	138,868	150,285	161,944	173,798	185,856	198,130	210,630	223
	PBS700102	4370	SERVCHG-TREASURY	343,270	399,030	412,986	449,484	486,440	524,178	562,546	601,575	641,302	681,763	722
	PBS700102	4361	SERVCHG-PUB WORKS	391,776	1,026,264	1,062,158	1,156,026	1,251,074	1,348,133	1,446,810	1,547,190	1,649,363	1,753,425	1,859
F	PBS700102	4304	INDIRECT ADMIN SERV	560,556	623,988	634,974	644,431	651,629	663,253	675.108	687.198	699,527	712,104	724
	PBS700402	4401	AUTO LIABILITY	44,066	55,587	56,143	56,704	57,271	57,844	58,422	59,007	59,597	60,193	60,
F	PBS700402	4407	EMP PROCEEDINGS	5,965	7,738	7,815	7,894	7,972	8.052	8,133	8,214	8,296	8,379	8.
F	PBS700402	4410	GENERAL LIABILITY	17,563	23,916	24, 155	24,397	24,641	24,887	25,136	25,387	25,641	25,898	26,
F	PBS700402	4416	OTHER INS CHARGES	30.531							20,00	20,011	20,030	20,
F	PBS700402	4431	PUB OFFICIALS LIAB	370	1,559	1,575	1,590	1,606	1,622	1,639	1,655	1,671	1,688	
	PBS660505	4116	SCHOOLS	1,750	1,000	1,010	1,050	1,000	1,022	1,000	1,000	1,071	1,000	1,
	PBS660511	3428	BLDG REP & MAINT	5,000	5,000	5,050	5,101	5,152	5.203	5,255	5,308		2 100	
	PBS700402	4404	FIDELITY BONDS	5,000	295	298	301	304				5,361	5,414	5,
	PBS700402	4428	PROP/FIRE INSURANCE		1,098	1,109			307	310	313	316	319	
	PBS660502	3201	AD/MARKETING	1,000			1,120	1,131	1,143	1,154	1,166	1,177	1,189	1
	PBS660502	3299			1,000	1,010	1,020	1,030	1,041	1,051	1,062	1,072	1,083	1
			OTHER SERVICES	800,000	750,000	757,500	765,075	772,726	780,453	788,258	796,140	804,102	812,143	820
	PBS660511	3319	OFFICE SPACE RENT	7,300		•						-		
	PBS660512	3199	OTHER PROF SERV	605,000	530,000	535,300	540,653	546,060	551,520	557,035	562,606	568,232	573,914	579
	PBS690603	3319	OFFICE SPACE RENT	5,300						-	-			
	PBS660502	4119	TRAINING & TRAVEL		2,400	2,424	2,448	2,473	2,497	2,522	2,548	2,573	2,599	2
	PBS660511	4119	TRAINING & TRAVEL		7,200	7,272	7,345	7,418	7,492	7,567	7,643	7,719	7,797	7
F	PBS690603	4119	TRAINING & TRAVEL		12,000	12,120	12,241	12,364	12,487	12,612	12,738	12,866	12,994	13
			New O&M from Capital Investments and WOMP				551,626	1,103,253	1,654,879	2,206,506	2,758,132	3,309,758	3,861,385	4,413
			Operating Enhancement			400,000	404,000	408,040	412,120	416,242	420,404	424,608	428,854	433,
	DDDCCCCCC	2442	Capital Outlay											
	PBS660502	6416		\$ 129,430		S -	s -		S -					\$
	PBS660505	6416	VEHICLES	226,610	25,654	10,276		42,226	32,919	21,355	21,355	21,355	21,355	21
	PBS660511	6416	VEHICLES	•	640,648	256,612		1,054,506	822,086	533,301	533,301	533,301	533,301	533
	PBS660511	6499	OTHER EQUIPMENT	65,302	380,000	383,800	387,638	391,514	395,430	399,384	403,378	407,411	411,486	415
F	PBS690603	6416	VEHICLES	-	27,417	10,982		45,128	35,182	22,823	22,823	22,823	22,823	22
			Total Stormwater Fund (470)	\$ 9,504,367	\$ 11,404,912	\$ 11,710,398	\$ 12,419,921	\$ 14,561,113	\$ 15,329,474	16,053,308	\$ 17,107,222	\$ 18,179,422	\$ 19,270,878	\$ 20,382
			Total Expenses by Category											
					\$ 3,724,297	\$ 3,924,732		\$ 4,359,121				\$ 5,380,045	\$ 5,671,161	\$ 5,978
			Operations & Maintenance	5,900,346	6,606,896	7,123,997	7,896,144	8,668,616	9,449,544	10,234,057	11,022,316	11,814,487	12,610,752	13,411
			Capital Outlay	421,342	1,073,719	661,670	387,638	1,533,375	1,285,617	976,863	980,857	984,891	988,965	993
			Total Expenses	\$ 9,504,367	\$ 11,404,912	\$ 11,710,398	\$ 12,419,921	\$ 14,561,113	\$ 15,329,474	16,053,308	\$ 17,107,222	\$ 18,179,422	\$ 19,270,878	\$ 20.3

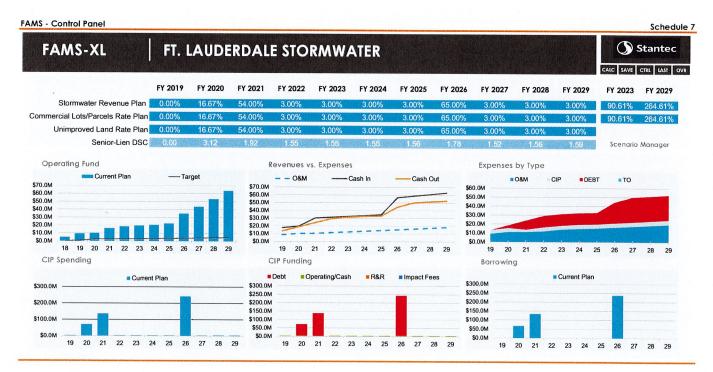
ojecti	on of Ca	h Outflows	************	***************************************	*****		*****	***************************************			******	New 2011/2017	нското				*****	*****************	100300	*****************			Sc	chedule
	Index	Subobject Expense Line Item		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024		FY 2025		FY 2026		FY 2027		FY 2028		FY 2029
188		Expense Execution Factors																						
189		Personal Services		100%		100%		100%		100%		100%		100%		100%		100%		100%		100%	6	100
190		Operations & Maintenance		95%		100%		95%		95%		95%		95%		95%		95%		95%		95%		95
191		Capital Outlay		100%		100%		100%		100%		100%		100%		100%		100%		100%		100%		100
192		Total Expenses at Execution																						
193		Personal Services	S	3,182,679	S	3,724,297	\$	3,924,732	S	4,136,139	S	4,359,121	S	4,594,314	S	4,842,388	S	5.104.049	s	5.380.045	S	5,671,161	S	5,978,22
194		Operations & Maintenance		5,605,329		6,606,896		6.767.797		7,501,337		8,235,185		8,977,067		9,722,354		10,471,200		11,223,763		11,980,214		12,740,70
195		Capital Outlay		421,342		1,073,719		661,670		387.638		1,533,375		1,285,617		976,863		980,857		984,891		988,965		993.080
196		Total Expenses at Execution	\$	9,209,350	\$	11,404,912		11,354,199	\$	12,025,114	\$	14,127,682	\$	14,856,997	\$	15,541,605	\$	16,556,107	\$	17,588,698	\$	18,640,341		19,712,01
197		Transfers Out																						
198		TR TO SPECIAL OBLIGATION BONDS	S	198,176	\$	226,715	S	226,715	S	226,715	S	226,715	S	226,715	S	226,715	\$	226,715	s	226,715	s	226,715	S	226,71
199		Total Transfers Out	\$	198,176	\$	226,715	\$	226,715	\$	226,715	\$	226,715	\$	226,715	\$	226,715	\$	226,715	\$	226,715	\$	226,715		
200		Debt Service																						
201		New Debt Service	S		S	2,969,084	\$	10,169,851	\$	12,789,667	S	12.789.667	s	12.789.667	s	12,789,667	s	23,148,299	S	27,765,685	s	27.765 685	s	27,765,685
202		Total Debt Service	\$		\$	2,969,084	\$	10,169,851	\$	12,789,667	\$	12,789,667	\$	12,789,667		12,789,667		23,148,299	\$	27,765,685		27,765,685	_	27,765,68
203		Total Cash Outflows1	s	9.407.526	s	14.600.711	s	21,750,764	s	25.041.497	s	27,144,065	•	27,873,380	•	20 557 000		20 024 424	s	45,581,098	s	40 000 744	_	47,704,41

Cost Esc	alation Factors		PROCESSOR STORY AREA SON	**************************************		***************************************				Sc	hedule 5
Subobject	Expense Line Item Description	Inflation Factor	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
1101	PERMANENT SALARIES	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
1199	OTHER REG SALARIES	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
1201	LONGEVITY PAY	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
1304	ASSIGNMENT PAY	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
1310	SHIFT DIFFERENTIAL	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
1313	STANDBY PAY	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
1401	CAR ALLOWANCES	No Escalation	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1407	EXPENSE ALLOWANCES	No Escalation	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1413	CELLPHONE ALLOWANCE	No Escalation	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
1501	OVERTIME 1.5X PAY	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
1801	CORE ADJUSTMENTS	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
2119	WELLNESS INCENTIVES	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
2119	WELLNESS INCENTIVES	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2204	PENSION - GENERAL EMP	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
2204	PENSION - GENERAL EMP	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
2299	PENSION - DEF CONT	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
2301	SOC SEC/MEDICARE	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
2402	LIFE INSURANCE	2.5%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
2404	HEALTH INSURANCE	Salaries - General	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%	5.50%
2410	WORKERS' COMP	2.5%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
3101	ACCT & AUDITING	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3198	BACKFLOW PROGRAM	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3199	OTHER PROF SERV	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3201	AD/MARKETING	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3228	DISPOSAL (TIP) FEES	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3255	SOLID WASTE COLLECTIONS	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3299	OTHER SERVICES	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3301	HEAVY EQUIP RENT	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3310	OTHER EQUIP RENT	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3319	OFFICE SPACE RENT	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3404	COMPONENTS/PARTS	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3407	EQUIP REP & MAINT	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3428	BLDG REP & MAINT	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3434	IMP REP MATERIALS	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3437	IMP REP & MAINT	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3601	ELECTRICITY	2.0%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%	2.00%
3628	TELEPHONE/CABLE TV	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3634	WATER/SEW/STORM	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3801	GASOLINE	EIA Fuels	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%
3804	DIESEL FUEL	EIA Fuels	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%
3807	OIL & LUBRICANTS	EIA Fuels	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%	3.10%
3913	HORTICULTURAL SUP	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3925	OFFICE EQUIP < \$5000	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3928	OFFICE SUPPLIES	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%		
3940	SAFETY SHOES	Default Operating  Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3946	TOOLS/EQUIP < \$5000	Default Operating  Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3949	UNIFORMS	Default Operating  Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
3999	OTHER SUPPLIES	Default Operating  Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%			1.00%	1.00%
4101	CERTIFICATION TRAIN	Default Operating  Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00% 1.00%	1.00%	1.00%	1.00%
4104	CONFERENCES	Default Operating  Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%		1.00%	1.00%	1.00%
4113	MEMBERSHIPS/DUES	Default Operating  Default Operating	1.00%	1.00%				1.00%	1.00%	1.00%	1.00%
					1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4116	SCHOOLS	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00

Cost Esc	calation Factors									Sc	hedule 5
4119	TRAINING & TRAVEL	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4213	RETIREE HEALTH BENE	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4304	INDIRECT ADMIN SERV	Admin Services	1.76%	1.49%	1.12%	1.78%	1.79%	1.79%	1.79%	1.80%	1.80%
4308	OVERHEAD-FLEET	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4343	SERVCHG-INFO SYS	Composite O&M	3.50%	8.84%	8.22%	7.76%	7.32%	6.94%	6.60%	6.31%	6.05%
4370	SERVCHG-TREASURY	Composite O&M	3.50%	8.84%	8.22%	7.76%	7.32%	6.94%	6.60%	6.31%	6.05%
4373	SERVCHG-FLEET O&M	Composite O&M	3.50%	8.84%	8.22%	7.76%	7.32%	6.94%	6.60%	6.31%	6.05%
4401	AUTO LIABILITY	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4404	FIDELITY BONDS	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4407	EMP PROCEEDINGS	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4410	GENERAL LIABILITY	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4416	OTHER INS CHARGES	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4428	PROP/FIRE INSURANCE	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
4431	PUB OFFICIALS LIAB	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
6416	VEHICLES	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
	Capital Project O&M	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
	Operating Enhancement	Default Operating	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
	Weighted Average Increase in O&M Expenses	ş1	3.50%	8.84%	8.22%	7.76%	7.32%	6.94%	6.60%	6.31%	6.05%

<sup>&</sup>lt;sup>1</sup> The Weighted Average Increase in O&M Expenses is reflective of the cost escalation factors presented on this schedule and the cost execution factors on Schedule 1.

ital Improvement Program	******************************		************************		***********	*****	**********	*************	***********	************	Sche
	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
tormwater Fund (470)											
1416 SE 11 COURT STORMWATER IMPROVEMENTS	\$ 656,035	\$ - 5	- \$	- \$	- \$	- \$	- S	- 5	- 5	- S	
UTILITIES ASSET MANAGEMENT SYSTEM	579,431	40,000	40,000	40,000	203,400	40,000					
DRAINAGE CANAL DREDGING	569,014		712,935	-		-					
HECTOR PARK STORMWATER IMPROVEMENTS	843,474									-	
800-850 SW 21 TERR STORMWATER IMPROVMENT		383,398									
CITYWIDE STORMWATER ANALYSIS		50,000	50,000	50,000	50,000						
DRAINAGE CANAL SURVEYING AND ASSESSMENT	14,016	14,016									
STORMSTATION 1 FIXED EMERG GENERATORS		395,250									
STORMSTATION 2 FIXED EMERG GENERATORS		297,500								1.5	
BAYVIEW DR. FROM SUNRISE BLVD. TO OAKLAND PARK BLV		191,510	692,020	233,771							
1716 SE 7TH STREET STORMWATER IMPROVEMENTS		1,100,000		200,			-				
1544 ARGYLE DRIVE STORMWATER IMPROVEMENTS		.,,	125,424	255,969							
32-101 S. GORDON ROAD STORMWATER IMPROVEMENTS		382,653	120,724	200,503							
3032 NE 20 COURT STORMWATER IMPROVEMENTS		302,033	470 000								
1801 NE 45TH STREET STORMWATER IMPROVEMENTS			178,639								
PLANT A STORMWATER TREATMENT FACILITY UPGRADES		1 211 001	52,206	107,818				-		-	
DOWNTOWN TIDAL VALVES - #11-19		1,211,984		242,992			-				
DOWNTOWN TIDAL VALVES - #17-19				397,934			-			21	
DOWNTOWN TIDAL VALVES - #1-10				385,225	10.00	-					
			379,000				11 11 *	1.			
DOWNTOWN TIDAL VALVES - #30-42				358,362	(20)					2	
DOWNTOWN TIDAL VALVES - #20-29	81.0		-	325,466	(*)				1-1	2.1	
DOWNTOWN RIVERWALK DISTRIC TIDAL VALVES - HIMMARSHEE STREET				198,848							
NE 16TH STREET STORMWATER IMPROVEMENTS	1.0		109,676		100						
MELROSE MANORS NEIGHBORHOOD IMPROVEMENTS	100				1,380,000						
SAILBOAT BEND STORMWATER IMPROVEMENTS	1.00	2	-		236,250	750,750					
RIVERLAND ROAD STORMWATER IMPROVEMENTS		2			210,000	693,000					
TARPON RIVER STORMWATER IMPROVEMENTS						1,200,000					
NE 7TH STREET AND NE 2ND AVE STORMWATER IMPROVEMENTS	140			350,000							
NE 11TH CT AND SEMINOLE DR STORMWTAER IMPROVEMENTS					375,000						
NW 21ST AVENUE PIPE REHABILITATION				1,100,000	5, 5,555						
NE 4TH STREET DRAINAGE IMPROVEMENTS				.,	850,000				•		
HOLLY HEIGHTS DR STORMWATER IMPROVEMENTS					157 000	300,000					
SE 1 & 2 STREETS, WEST OF US1 STORMWATER IMPROVEMENTS					147,000						
NE 32 AVENUE AND NE 30TH STREET						400,000					
CITY-WIDE CANAL DREDGING PLAN - CYCLE 1	155,557				173,250	640,500					
CITYWIDE STORMWATER MODEL			5 5 7								
800-850 SW 21ST TERRACE STORMWATER IMPROVEMENTS	50,000						-			(*)	
4848 NE 23RD AVENUE STORMWATER IMPROVEMENTS	562,317			-		-				-	
STORMSTATION 1 FIXED EMERGENCY GENERATORS	374,877										
	70,000										
STORMSTATION 2 FIXED EMERGENCY GENERATORS	52,500									1000	
posed Stormwater Revenue Bond Fund (471)											
DURRS AREA STORMWATER IMPROVEMENTS	S -		20 200 201 -		148		11 1				
SOUTHEAST ISLES TIDAL AND STRMWTR IMPR		\$ - \$		- \$	- \$	- \$	- \$	- \$	- \$	- \$	
RIVER OAK STORMWATER ANALYSIS			43,980,000		-				1 1		
		37,975,000					120				
EDGEWOOD STORMWATER IMPROVEMENTS		30,475,000				-					
PROGRESSO STORMWATER IMPROVEMENTS			26,990,000								
DORSEY RIVERBEND STORMWATER IMPROVEMENTS			20,890,000		-						
VICTORIA PARK TIDAL & STRMWTR IMPROVMENT			18,800,000			-	140				
Future Stormwater Phase 2 Bond								200,000,000			
Unspecified Future Capital	\$ .	\$ - \$	- \$	- \$	- \$	- \$	3,651,749 \$	3,651,749 \$	3,651,749 \$	3,651,749 \$	3,651,74
al CIP Budget (in current dollars)	\$ 3,927,221	\$ 72,516,311 \$	133,889,900 \$	4,046,385 \$	3,781,900 \$	4,024,250 \$	3,651,749 \$	203,651,749 \$	3,651,749 \$	3,651,749 \$	3,651,74
nulative Projected Cost Escalation <sup>1</sup>	0.0%	0.0%	3.0%	6.1%	9.3%	12.6%	15.9%	19.4%	23.0%	26.79	30.524
sulting CIP Funding Level		\$ 72,516,311 \$			4,132,584 \$	4,529,329 \$		243,170,839 \$	4,491,191 \$	26.7% 4,625,927 \$	30.5% 4,764,70
					1.02,007	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,200,010 3	2-0,170,039 3	-,431,131 3	4,020,921 \$	4,764,70
nual CIP Execution Percentage	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
al CIP Funding Level	\$ 3,927,221	\$ 72,516,311 \$	127 006 607 6	4,292,810 \$	4,132,584 \$	4,529,329 \$		243,170,839 \$	4,491,191 \$	4,625,927 \$	4,764,70



		FY	2019	F	<b>1</b> 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Operating Revenue														
Stormwater Rate Revenue		\$ 17	.280,000	\$ 17	7.280,000	\$ 19,178,924	\$ 29,591,997	\$ 30.538.265	\$ 31,514,676	\$ 32.522.188	\$ 33,561,787	\$ 55,482,439	\$ 57.255.567	\$ 59,085,149
Change in Revenue From Growth					(841,392)	36,658	56,804	58,508	60,263	62,071	63,934	105,490	108.655	117,577
Subtotal		S 17	.280,000	\$ 16	5,438,608	\$ 19,215,582		\$ 30,596,773	\$ 31,574,940	\$ 32,584,259		\$ 55,587,929		
Weighted Average Rate Increase			0.00%		16.67%	54.00%	3.00%	3.00%	3.00%	3.00%	65.00%	3.00%	3.00%	3.009
Additional Rate Revenue From Rate Increase				2	2.740,316	10,376,414	889,464	917.903	947,248	977.528	21.856.718	1,667,638	1,720,927	1,776,082
Total Rate Revenue		\$ 17	,280,000	\$ 19	9,178,924	\$ 29,591,997	\$ 30,538,265	\$ 31,514,676	\$ 32,522,188	\$ 33,561,787	\$ 55,482,439	\$ 57,255,567	\$ 59,085,149	\$ 60,978,808
Plus: Other Operating Revenue			360,000		260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000	260,000
Equals: Total Operating Revenue		\$ 17	,640,000	\$ 19	,438,924	\$ 29,851,997	\$ 30,798,265	\$ 31,774,676	\$ 32,782,188	\$ 33,821,787	\$ 55,742,439		\$ 59,345,149	
Less: Operating Expenses														
Personal Services		\$ (3	, 182, 679)	\$ (3	3,724,297)	\$ (3,924,732	\$ (4,136,139)	\$ (4,359,121)	\$ (4.594.314)	\$ (4.842.388)	\$ (5.104.049)	\$ (5.380.045)	\$ (5,671,161)	\$ (5.978.229
Operations & Maintenance Costs			,605,329)		5,606,896)	(6,767,797		(8,235,185)	(8,977,067)	(9.722.354)	(10,471,200)	(11,223,763)	(11,980,214)	(12,740,702
Equals: Net Operating Income		\$ 8	,851,992	\$ 9	,107,731	\$ 19,159,468	\$ 19,160,789	\$ 19,180,370	\$ 19,210,807	\$ 19,257,045	\$ 40,167,190		\$ 41,693,773	\$ 42,519,87
Plus: Non-Operating Income/(Expense)														
Interest Income		S	142,648	\$	158,766	\$ 387,340	\$ 609,161	\$ 641,285	S 663,104	\$ 690,742	\$ 982,044	\$ 1,344,006	\$ 1,528,024	\$ 1,729,158
Equals: Net Income		\$ 8	,994,640	\$ 9	,266,497	\$ 19,546,808	\$ 19,769,950	\$ 19,821,655	\$ 19,873,912				\$ 43,221,797	
Senior Lien Debt Service Coverage Test														
Net Income Available for Senior-Lien Debt Service		\$ 8	.994.640	\$ 9	.266,497	\$ 19,546,808	\$ 19,769,950	\$ 19,821,655	\$ 19,873,912	\$ 19.947.787	\$ 41 149 233	\$ 42 255 766	\$ 43,221,797	\$ 44 249 034
Existing Senior-Lien Debt										- 1-1-1111	,,====	- 12,200,100	V 40,221,737	U 44,245,05
Cumulative New Senior Lien Debt Service (calculated)				2	2,969,084	10,169,851	12,789,667	12,789,667	12,789,667	12,789,667	23,148,299	27.765.685	27,765,685	27.765.68
Total Annual Senior-Lien Debt Service	Req.	S	-	\$ 2	2,969,084	\$ 10,169,851	\$ 12,789,667	\$ 12,789,667	\$ 12,789,667		\$ 23,148,299	\$ 27,765,685	\$ 27,765,685	\$ 27,765,68
Calculated Senior-Lien Debt Service Coverage	1.50				3.12	1.92	1.55	1.55	1.55	1.56	1.78	1.52	1.56	1.59
Cash Flow Test														
Net Income Available For Debt Service		\$ 8	,994,640	\$ 9	,266,497	\$ 19,546,808	\$ 19,769,950	\$ 19,821,655	\$ 19,873,912	\$ 19,947,787	\$ 41,149,233	\$ 42,255,766	\$ 43,221,797	\$ 44,249,035
Less: Non-Operating Expenditures														
Net Interfund Transfers (In - Out)			(198, 176)		(226,715)	(226,715	(226,715)	(226,715)	(226,715)	(226,715)	(226,715)	(226,715)	(226,715)	(226,715
Net Debt Service Payment				(2	2,969,084)	(10,169,851	(12,789,667)	(12,789,667)	(12,789,667)	(12,789,667)	(23,148,299)	(27,765,685)	(27,765,685)	(27,765,685
Capital Outlay			(421,342)		1,073,719)	(661,670		(1,533,375)	(1,285,617)	(976,863)	(980,857)	(984,891)	(988,965)	(993,080
Net Cash Flow		\$ 8	,375,122	\$ 4	,996,979	\$ 8,488,572	\$ 6,365,930	\$ 5,271,897	\$ 5,571,913	\$ 5,954,541	\$ 16,793,362	\$ 13,278,475	\$ 14,240,432	\$ 15,263,555
Unrestricted Reserve Fund Test														
Balance At Beginning Of Fiscal Year				\$ 9	622,687	\$ 10,553,355	\$ 16,631,830	\$ 18,704,950	\$ 19,844,263	\$ 20,886,847	\$ 22,608,010	\$ 35,040,992	\$ 43,828,277	\$ 53,442,782
Cash Flow Surplus/(Deficit)			3,375,122		,996,979	8,488,572	6,365,930	5,271,897	5,571,913	5,954,541	16,793,362	13,278,475	14,240,432	15,263,555
Projects Paid With Non Specified Funds			3,927,221)	(4	,066,311)	(2,410,097		(4,132,584)	(4,529,329)	(4,233,378)	(4,360,380)	(4,491,191)	(4,625,927)	(4,764,704
Balance At End Of Fiscal Year		\$ 9	,622,687			\$ 16,631,830	\$ 18,704,950	\$ 19,844,263	\$ 20,886,847	\$ 22,608,010	\$ 35,040,992			\$ 63,941,633
Minimum Working Capital Reserve Target			,098,501		2,582,798	2,673,132	2,909,369	3,148,577	3,392,845	3,641,186	3,893,812	4,150,952	4,412,844	4,679,733
Excess/(Deficiency) Of Working Capital To Target		\$ 8	3,524,186	S 7	970.557	\$ 13,958,698	\$ 15,795,581	\$ 16 695 686	\$ 17 494 002	\$ 18 966 824	\$ 31 147 180	\$ 30 677 325	\$ 49,029,938	e so 264 000

# Appendix A: Financial Sustainability Analysis Supporting Schedules

Capital Project Funding Summary		WATER WATER WATER	W00130	***************************************	PARAMETER		e ve en	MANAGA WA MANAGA M	*****	*************************	******		*****		 					Sc	hedule 9
Final Capital Projects Funding Sources		FY 2019		FY 2020		FY 2021		FY 2022		FY 2023		FY 2024		FY 2025	FY 2026		FY 2027		FY 2028		FY 2029
Revenue Fund Senior-Lien Debt Proceeds	S	3,927,221	S	4,066,311 68,450,000	\$	2,410,097 135,496,500	\$	4,292,810	\$	4,132,584	S	4,529,329	S	4,233,378	\$ 4,360,380 238,810,459	S	4,491,191	S	4,625,927	S	4,764,704
Total Projects Paid	\$	3,927,221	\$	72,516,311	\$	137,906,597	\$	4,292,810	\$	4,132,584	\$	4,529,329	\$	4,233,378	\$ 243,170,839	\$	4,491,191	\$	4,625,927	\$	4,764,704

# Appendix A: Financial Sustainability Analysis Supporting Schedules

Funding Summary by Fund	MARCHANIC CLEANING COLORS			******	***************************************		Maria de la composition della	*****												Sch	nedule 10
		FY 2019	FY 2020		FY 2021	F	Y 2022		FY 2023		FY 2024	FY 202	5		FY 2026		FY 2027		FY 2028		FY 2029
Revenue Fund																					
Balance At Beginning Of Fiscal Year	S	5,174,786 \$	9,622,687	\$	10,553,355	\$	16,631,830	S	18,704,950	S	19,844,263 S	20,886	847	S	22.608.010	S	35.040.992	s	43,828,277	S	53.442.782
Net Cash Flow		8,375,122	4,996,979		8,488,572		6,365,930		5,271,897		5,571,913	5,954	541		16,793,362		13,278,475		14,240,432		15,263,555
Less: Cash-Funded Capital Projects													-				-				.0,200,000
Less: Payment Of Debt Service		-																			
Subtotal	S	13,549,908 \$	14,619,666	S	19,041,927	\$ 2	22,997,760	s	23,976,847	s	25,416,176 S	26,841	388	s	39.401.372	s	48.319.467	s	58,068,709	S	68.706.337
Less: Restricted Funds		(1,098,501)	(2,582,798)		(2,673,132)		(2,909,369)		(3, 148, 577)		(3,392,845)	(3,641	186)		(3,893,812)		(4, 150, 952)		(4,412,844)		(4,679,733)
Total Amount Available For Projects		12,451,407	12,036,868		16,368,795	2	20,088,391		20,828,271		22,023,331	23,200	202		35,507,559		44,168,516		53,655,865		64,026,604
Amount Paid For Projects		(3,927,221)	(4,066,311)		(2,410,097)		(4,292,810)		(4, 132, 584)		(4,529,329)	(4,233	378)		(4.360,380)		(4,491,191)		(4,625,927)		(4,764,704
Subtotal	S	8,524,186 \$	7,970,557	S	13,958,698	\$ 1	15,795,581	S	16,695,686	s	17,494,002 S	18,966	824	S	31,147,180	s	39,677,325	s	49,029,938	S	59,261,900
Add Back: Restricted Funds		1,098,501	2,582,798		2,673,132		2,909,369		3,148,577		3,392,845	3,641	186		3,893,812		4.150,952		4.412.844		4,679,733
Plus: Interest Earnings		142,648	130,913		237,870		353,368		385,492		407,311	434.	949		576,490		788,693		972,711		1,173,844
ess: Interest Allocated To Cash Flow		(142,648)	(130,913)		(237,870)		(353,368)		(385.492)		(407.311)	(434			(576,490)		(788.693)		(972,711)		(1,173,844)
Balance At End Of Fiscal Year	\$	9,622,687 \$	10,553,355	\$	16,631,830	\$ 1	18,704,950	\$	19,844,263	\$	20,886,847 \$	22,608	_	s	35,040,992	\$	43,828,277	\$	53,442,782	s	63,941,633
Restricted Reserves																					
Balance At Beginning Of Fiscal Year	s	- S		\$	4,292,561	S 1	12,789,667	S	12,789,667	S	12,789,667 \$	12,789	667	S	12.789.667	S	27.765.685	S	27.765.685	S	27,765,685
Additional Funds:					-				-							-	- 11 001000	•	27,700,000	•	27,700,000
Debt Service Reserve On New Debt		\$0	\$4,292,561		\$8,497,107		SO.		\$0		\$0		SO	9	14,976,017		\$0		\$0		S0
Other Additional Funds							-				-		-								
Subtotal	\$	- S	4,292,561	\$	12,789,667	\$ 1	12,789,667	s	12,789,667	s	12,789,667 S	12,789	667	S	27,765,685	s	27,765,685	S	27,765,685	s	27.765.685
Plus: Interest Earnings		-	27,853		149,469		255,793		255,793		255,793	255.			405,554		555,314	-	555,314	-	555,314
ess: Interest Allocated To Cash Flow		-	(27,853)		(149,469)		(255,793)		(255,793)		(255,793)	(255.			(405,554)		(555,314)		(555,314)		(555,314
Balance At End Of Fiscal Year	s	- S	4,292,561	s	12,789,667	S 1	12,789,667	s	12,789,667	s	12,789,667 S	12,789		s	27.765.685	c	27.765.685	s	27,765,685	s	27,765,685

# Appendix A: Financial Sustainability Analysis Supporting Schedules

	FY	2019	FY 2020	FY 2021	FY 2022	FY	2023	FY 2024		FY 2025	FY 2026	F	Y 2027	FY 2028		FY 2029
Term (Years)		80	30	30	30	- 3	30	30		30	30		30	30		30
nterest Rate	4.0	00%	4.00%	4.00%	4.00%	4.0	00%	4.00%		4.00%	4.00%		4.00%	4.00%		4.00%
Sources of Funds																
Par Amount	\$		\$ 74,227,103	\$ 146,932,252	\$	- S		\$	- \$		- \$258,965,793	S		\$	- S	
Jses of Funds																
Proceeds	S		\$ 68,450,000	\$ 135,496,500	\$	- S		S	- S		- \$238,810,459	S	-	S	- S	
Cost of Issuance 2.00% of Par			1,484,542	2,938,645							- 5,179,316		-			
Debt Service Reserve 1 Year(s) of Debt Service		-	4,292,561	8,497,107					-		- 14,976,017		-			
otal Uses	S	-	\$ 74,227,103	\$ 146,932,252	\$	- \$		\$	- \$		- \$258,965,793	\$		\$	- \$	
Year Interest			2,969,084	5,877,290							- 10,358,632					
Annual Debt Service	\$	-	\$ 4,292,561	\$ 8,497,107	S	- S	-	\$	- \$		- \$ 14,976,017	S		\$	- S	
otal Debt Service		-	128,776,822	254,913,201			-		-		- 449,280,524					
Cumulative New Annual Senior Lien Debt Service	s		\$ 2,969,084	\$ 10,169,851	\$ 12,789,66	57 S 12.	789.667	\$ 12,789,66	7 S	12,789,66	7 \$ 23,148,299	S :	27.765.685	\$ 27,765,6	85 5	27 765 65

# APPENDIX B: COST OF SERVICE ANALYSIS SUPPORTING SCHEDULES

- Schedule 1 Stormwater System Functional Allocation
- Schedule 2 Revenue Bond Issuance Allocation
- Schedule 3 Capital Improvement Projects Allocation

### Stormwater System Functional Allocation

														Percent Al	location	
	Evener	NAME OF TAXABLE PARTY.	COMMUN		C.I.			STATE OF STREET	THE SHARE SHOWN IN				20.:	21%	79.7	9%
	Expense Type	Index	Division	Division Description	Sub Object	Expense Description		est Year FY 2021	Allocation Basis/Factor	Quality	Quantity	Total % Allocation	Qua	ality	Quar	ntity
			DESTRUMENT.			Water Court States	2903	1 2021				Allocation	S Allo	cation	S Alloc	ation
1	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	1501	Stormwater										
2	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	1201	Overtime 1.5X Pay Longevity Pay	\$	25,403 4,079	Quantity	0.00%	100.00%	100.00%	\$		\$	25,403
3	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	1313	Standby Pay		9,942	Quantity	0.00%	100.00%	100.00%				4,079
4	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	1101	Permanent Salaries		604,367	Quantity	0.00%	100.00%	100.00%				9,942
5	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	1413	Cellphone Allowance		1,440	Quantity	0.00%	100.00%	100.00%				1,440
6	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	2301	Soc Sec/Medicare		46,548	Quantity	0.00%	100.00%	100.00%				46,548
7	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	2404	Health Insurance		128,542	Quantity	0.00%	100.00%	100.00%				128.542
8	PS	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	2299	Pension - Def Cont		27,825	Quantity	0.00%	100.00%	100.00%				27,825
9	PS OMF	PBS660502 PBS660502	PBS66 PBS66	DISTRIBUTION AND COLLECTION	2204	Pension - General Emp		53,090	Quantity	0.00%	100.00%	100.00%		100		53,090
11		PBS660502	PBS66	DISTRIBUTION AND COLLECTION DISTRIBUTION AND COLLECTION	3949 3940	Uniforms Safety Shoes		4,318 2,159	Quantity	0.00%	100.00%	100.00%				4,318
12		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3999	Other Supplies		7,196	Quantity	0.00%	100.00%	100.00%				2,159
13	OME	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3913	Horticultural Sup		5,757	Quantity	0.00%	100.00%	100.00%				7,196
14	OMF	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3946	Tools/Equip < \$5000		9,595	Quantity	0.00%	100.00%	100.00%				5,757 9,595
15	OMF	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3925	Office Equip < \$5000		1,919	Quantity	0.00%	100.00%	100.00%				1,919
16	OMF	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3299	Other Services		4,798	Quantity	0.00%	100.00%	100.00%				4,798
17		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3228	Disposal (Tip) Fees		31,184	Quantity	0.00%	100.00%	100.00%				31,184
18	OMF	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3437	Imp Rep & Maint		1,151,400	Quantity	0.00%	100.00%	100.00%			1	151,400
19		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3404	Components/Parts		47,975	Quantity	0.00%	100.00%	100.00%				47,975
20		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3407	Equip Rep & Maint		960	Quantity	0.00%	100.00%	100.00%				960
21		PBS660502 PBS660502	PBS66 PBS66	DISTRIBUTION AND COLLECTION DISTRIBUTION AND COLLECTION	3434 3310	Imp Rep Materials		23,988	Quantity	0.00%	100.00%	100.00%				23,988
23	OME	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3801	Other Equip Rent Gasoline		25,907	Quantity	0.00%	100.00%	100.00%				25,907
24	OME	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3804	Diesel Fuel		11,337	Quantity	0.00%	100.00%	100.00%				24
25	OMF	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3198	Backflow Program		139	Quantity	0.00%	100.00%	100.00%				11,337
26		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3634	Water/Sew/Storm		91	Quantity	0.00%	100.00%	100.00%				91
27	OMF	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	3628	Telephone/Cable Tv		4,126	Quantity	0.00%	100.00%	100.00%				4,126
28	OMF	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	4308	Overhead-Fleet		24,886	Quantity	0.00%	100.00%	100.00%				24,886
29		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	4373	Servchg-Fleet O&M		75,605	Quantity	0.00%	100.00%	100.00%		100		75,605
30		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	4213	Retiree Health Bene		6,908	Quantity	0.00%	100.00%	100.00%				6,908
31		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	2119	Wellness Incentives		505	Quantity	0.00%	100.00%	100.00%				505
32		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	1401	Car Allowances		3,000	Quantity	0.00%	100.00%	100.00%				3,000
33 34		PBS660502 PBS660502	PBS66 PBS66	DISTRIBUTION AND COLLECTION DISTRIBUTION AND COLLECTION	3201 1801	Ad/Marketing Core Adjustments		960 (10.768)	Quantity	0.00%	100.00%	100.00%				960
35		PBS660502	PBS66	DISTRIBUTION AND COLLECTION	2402	Life Insurance		378	Quantity	0.00%	100.00%	100.00%				(10,768)
36	OME	PBS660502	PBS66	DISTRIBUTION AND COLLECTION	4119	Training & Travel		2,303	Quantity Quantity	0.00%	100.00%	100.00%				378
								2,000	Quartity	0.00/9	100.0075	100.00%				2,303
						Stormwater General Expenditures		_								
37		PBS700102	PBS70	DEPT SUPPORT	3101	Acct & Auditing	5	2,880	Indirect Allocation	39.19%	60.81%	100.00%	\$	1,129	5	1,752
38	OMF	PBS700102	PBS70	DEPT SUPPORT	4343	Servchg-Info Sys		121,212	Indirect Allocation	39.19%	60.81%	100.00%		47,499		73,713
39 40	OMF	PBS700102 PBS700102	PBS70	DEPT SUPPORT	4370 4361	Servchg-Treasury		392,337	Indirect Allocation	39.19%	60.81%	100.00%		153,743		238,594
41		PBS700102	PBS70	DEPT SUPPORT	4304	Servchg-Pub Works Indirect Admin Serv		1,009,050 603,225	Indirect Allocation	39.19%	60.81%	100.00%		395,411		613,639
**	Own	1 03/00/02	1 03/0	DEFT SUFFORT	+30+	Indirect Admin Serv		003,225	Indirect Allocation	39.19%	60.81%	100.00%		236,383		366,843
						Stormwater Insurance										
42		PBS700402	PBS70	DEPT SUPPORT	2410	Workers' Comp	\$	57,056	Indirect Allocation	39.19%	60.81%	100.00%	\$	22,358	S	34,698
43		PBS700402	PBS70	DEPT SUPPORT	3319	Office Space Rent		97,869	Indirect Allocation	39.19%	60.81%	100.00%		38.351	-	59.518
44		PBS700402	PBS70	DEPT SUPPORT	4401	Auto Liability		53,336	Indirect Allocation	39.19%	60.81%	100.00%		20,900		32,435
45		PBS700402	PBS70	DEPT SUPPORT	4407	Emp Proceedings		7,425	Indirect Allocation	39.19%	60.81%	100.00%		2,909		4,515
46	OMF	PBS700402	PBS70	DEPT SUPPORT	4410	General Liability		22,947	Indirect Allocation	39.19%	60.81%	100.00%		8,992		13,955
48	OMF	PBS700402 PBS700402	PBS70 PBS70	DEPT SUPPORT DEPT SUPPORT	4431	Pub Officials Liab Fidelity Bonds		1,496 283	Indirect Allocation	39.19%	60.81%	100.00%		586		910
49	OMF	PBS700402	PBS70	DEPT SUPPORT	4428	Prop/Fire Insurance		1,054	Indirect Allocation Indirect Allocation	39.19% 39.19%	60.81%	100.00%		111		172
7,	Olla	1 55700402	10310	DEFT SUFFORT	4420	Propirite insulance		1,054	indirect Allocation	39.19%	60.81%	100.00%		413		641
						Stormwater Watershed Asset Manage	ement									
50	OMF	PBS660512	PBS66	DISTRIBUTION AND COLLECTION	3299	Other Services	\$	719,625	50% Split	50.00%	50.00%	100.00%	\$	359,813	5	359,813
51	OMF	PBS660512	PBS66	DISTRIBUTION AND COLLECTION	3199	Other Prof Serv		508,535	50% Split	50.00%	50.00%	100.00%		254,268		254,268
52	PS	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	1201	Longevity Pay		1,819	Quality	100.00%	0.00%	100.00%		1,819		
53	PS PS	PBS690603 PBS690603	PBS69	ENVIRONMENTAL RESOURCES	1101	Permanent Salaries		454,115	Quality	100.00%	0.00%	100.00%		454,115		
54	PS PS	PBS690603 PBS690603	PBS69	ENVIRONMENTAL RESOURCES ENVIRONMENTAL RESOURCES	1413	Cellphone Allowance		2,400	Quality	100.00%	0.00%	100.00%		2,400		
55 56	PS PS	PBS690603 PBS690603	PBS69	ENVIRONMENTAL RESOURCES ENVIRONMENTAL RESOURCES	2119	Soc Sec/Medicare Wellness Incentives		34,878 1,055	Quality	100.00%	0.00%	100.00%		34,878		
57	PS PS	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	2404	Wellness incentives Health Insurance		63,072	Quality Quality	100.00%	0.00%	100.00%		1,055		
58	PS	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	2299	Pension - Def Cont		31,219	Quality	100.00%	0.00%	100.00%		63,072		
59	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	3999	Other Supplies		3.838	Quality	100.00%	0.00%	100.00%		31,219 3,838		
60	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	3928	Office Supplies		1,919	Quality	100.00%	0.00%	100.00%		1.919		
61	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	3201	Ad/Marketing		2,399	Quality	100.00%	0.00%	100.00%		2,399		
62	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	3299	Other Services		145,844	Quality	100.00%	0.00%	100.00%		145,844		

### Stormwater System Functional Allocation

													20.2		79.795	*
	Expense Type	Index	Division	Division Description	Sub Object	Expense Description		t Year 2021	Allocation Basis/Factor	Quality	Quantity	Total % Allocation	Qua S Alloc		Quanti S Alloca	ity
63	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	3216	Costs/Fees/Permits		23,028	Quality	100.00%	0.00%	100.00%		23,028		
64	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	3801	Gasoline		1,267	Quality	100.00%	0.00%	100.00%		1,267		
65 66	OMF	PBS690603 PBS690603	PBS69 PBS69	ENVIRONMENTAL RESOURCES	3807	Oil & Lubricants		98	Quality	100.00%	0.00%	100.00%		98		
67	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES ENVIRONMENTAL RESOURCES	3199 4308	Other Prof Serv Overhead-Fleet		74,783	Quality	100.00%	0.00%	100.00%		74,783		
68	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	4373	Servchg-Fleet O&M		1,258	Quality	100.00%	0.00%	100.00%		680		
69	OME	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	4355	Servchg-Print Shop		983	Quality	100.00%	0.00%	100.00%		1,258		
70	PS	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	2204	Pension - General Emp		18,520	Quality	100.00%	0.00%	100.00%		18,520		
71	PS	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	1401	Car Allowances		15,000	Quality	100.00%	0.00%	100.00%		15,000		
72	PS	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	2402	Life Insurance		284	Quality	100.00%	0.00%	100.00%		284		
73	OMF	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	4119	Training & Travel		11,514	Quality	100.00%	0.00%	100.00%		11.514		
74	CO	PBS690603	PBS69	ENVIRONMENTAL RESOURCES	6416	Vehicles		10,982	Quality	100.00%	0.00%	100.00%		10,982		
						Swale Cutback										
75	PS	PBS660505	PRS66	DISTRIBUTION AND COLLECTION	1504	Overtime 1X Pay		2,419	Management Estimate	60.00%	40.00%			190500		
76	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	1501	Overtime 1.5X Pay	3	101,611	Management Estimate  Management Estimate	60.00%	40.00%	100.00%	\$	1,451		968
77	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	1201	Longevity Pay		4.642	Management Estimate	60.00%	40.00%	100.00%		60,967 2,785		40,645
78	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	1313	Standby Pay		6.214	Management Estimate	60.00%	40.00%	100.00%		3,728		1,857
79	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	1101	Permanent Salaries		284,381	Management Estimate	60.00%	40.00%	100.00%		170,628		13,752
80	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	2301	Soc Sec/Medicare		22,112	Management Estimate	60.00%	40.00%	100.00%		13,267		8.845
81	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	2404	Health Insurance		57,856	Management Estimate	60.00%	40.00%	100.00%		34.714		23,142
82	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	2299	Pension - Def Cont		14,776	Management Estimate	60.00%	40.00%	100.00%		8.866		5,911
83	PS	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	2204	Pension - General Emp		22,147	Management Estimate	60.00%	40.00%	100.00%		13,288		8,859
84	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3949	Uniforms		2,399	Management Estimate	60.00%	40.00%	100.00%		1,439		960
85	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3940	Safety Shoes		1,199	Management Estimate	60.00%	40.00%	100.00%		720		480
86	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3999	Other Supplies		4,798	Management Estimate	60.00%	40.00%	100.00%		2,879		1,919
87	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3928	Office Supplies		1,439	Management Estimate	60.00%	40.00%	100.00%		864		576
88	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3913	Horticultural Sup		47,016	Quality	100.00%	0.00%	100.00%		47,016		
89 90	OMF	PBS660505 PBS660505	PBS66 PBS66	DISTRIBUTION AND COLLECTION DISTRIBUTION AND COLLECTION	3925	Office Equip < \$5000		576	Management Estimate	60.00%	40.00%	100.00%		345		230
91	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3299	Other Services		48,095	Management Estimate	60.00%	40.00%	100.00%		28,857		19,238
92	OME	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3404	Disposal (Tip) Fees Components/Parts		31,184 4,798	Management Estimate Quantity	60.00%	40.00%	100.00%		18,710		12,474
93	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3434	Imp Rep Materials		5,757	Management Estimate	0.00%	100.00%	100.00%				4,798
94	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3301	Heavy Equip Rent		3,838	Management Estimate	60.00%	40.00%	100.00%		3,454		2,303
95	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3310	Other Equip Rent		2.879	Management Estimate	60.00%	40.00%	100.00%		2,303 1,727		1,535
96	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3801	Gasoline		4.053	Management Estimate	60.00%	40.00%	100.00%		2,432		1,151
97	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3804	Diesel Fuel		16,690	Management Estimate	60.00%	40.00%	100.00%		10,014		6,676
98	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3634	Water/Sew/Storm		400	Management Estimate	60.00%	40.00%	100.00%		240		160
99	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	3628	Telephone/Cable Tv		3,742	Management Estimate	60.00%	40.00%	100.00%		2.245		1.497
100	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	4308	Overhead-Fleet		31,257	Management Estimate	60.00%	40.00%	100.00%		18.754		12,503
101	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	4373	Servchg-Fleet O&M		98,381	Management Estimate	60.00%	40.00%	100.00%		59,028		39,352
102	OMF	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	4213	Retiree Health Bene		2,303	Management Estimate	60.00%	40.00%	100.00%		1,382		921
103	CO	PBS660505	PBS66	DISTRIBUTION AND COLLECTION	6416	Vehicles		10,276	Management Estimate	60.00%	40.00%	100.00%		6,165		4,110
104	PS PS	PBS660505 PBS660505	PBS66 PBS66	DISTRIBUTION AND COLLECTION	1801	Core Adjustments		91,783	Management Estimate	60.00%	40.00%	100.00%		55,070	. 3	36,713
105	PS	PBS660505	PB566	DISTRIBUTION AND COLLECTION	2402	Life Insurance		178	Management Estimate	60.00%	40.00%	100.00%		107		71
						Storm Drain Maintenance										
106	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1501	Overtime 1.5X Pay	\$	66,531	Management Estimate	40.00%	60.00%	100.00%	\$	26,613	S	39.919
107	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1201	Longevity Pay		12,959	Management Estimate	40.00%	60.00%	100.00%		5,183		7.775
108	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1313	Standby Pay		18,642	Management Estimate	40.00%	60.00%	100.00%		7,457	1	11,185
109	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1310	Shift Differential		411	Management Estimate	40.00%	60.00%	100.00%		165		247
110	PS PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1101	Permanent Salaries		982,710	Management Estimate	40.00%	60.00%	100.00%		393,084	58	89,626
111	PS PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1401	Car Allowances		7,080	Management Estimate	40.00%	60.00%	100.00%		2,832		4,248
112	PS PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1407	Expense Allowances		1,440	Management Estimate	40.00%	60.00%	100.00%		576		864
114	PS PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION DISTRIBUTION AND COLLECTION	2301	Cellphone Allowance Soc Sec/Medicare		3,120 76,199	Management Estimate	40.00%	60.00%	100.00%		1,248		1,872
115	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	2119	Wellness Incentives		3,693	Management Estimate Management Estimate	40.00%	60.00%	100.00%		30,480		45,720
116	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	2404	Health Insurance		176,460	Management Estimate  Management Estimate	40.00%	60.00%	100.00%		1,477		2,216
117	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	2299	Pension - Def Cont		28 392	Management Estimate	40.00%	60.00%	100.00%		70,584		05,876
118	PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	2204	Pension - General Emp		143,235	Management Estimate	40.00%	60.00%	100.00%		57.294		17,035 85,941
119	OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3949	Uniforms		7,676	Management Estimate	40.00%	60.00%	100.00%		3,070		4,606
120	OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3940	Safety Shoes		4,078	Management Estimate	40.00%	60.00%	100.00%		1,631		2,447
121	OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3999	Other Supplies		960	Management Estimate	40.00%	60.00%	100.00%		384		576
122	OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3928	Office Supplies		960	Management Estimate	40.00%	60.00%	100.00%		384		576
123	OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3925	Office Equip < \$5000		960	Management Estimate	40.00%	60.00%	100.00%		384		576
124	OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3299	Other Services		115,140	Management Estimate	40.00%	60.00%	100.00%		46,056	6	59,084
125	OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3216	Costs/Fees/Permits		2,902	Management Estimate	40.00%	60.00%	100.00%		1,161		1,741
126	OMF	PBS660511 PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3228	Disposal (Tip) Fees		62,368	Management Estimate	40.00%	60.00%	100.00%		24,947		37,421
127 128	OMF	PBS660511 PBS660511	PBS66 PBS66	DISTRIBUTION AND COLLECTION DISTRIBUTION AND COLLECTION	3255	Solid Waste Collections		14,393	Management Estimate	40.00%	60.00%	100.00%		5,757		8,636
128	JMI	, <b>B</b> 3000311	rpadb	DISTRIBUTION AND COLLECTION	3404	Components/Parts		439,643	Management Estimate	40.00%	60.00%	100.00%		175,857	26	33,786

Percent Allocation

### Stormwater System Functional Allocation

												HIL AHOL	
Expense Type	Index	Division	Division Description	Sub Object	Expense Description	Test Year FY 2021	Allocation Basis/Factor	Quality	Quantity	Total % Allocation	20.21%  Quality  S Allocation		Quantity S Allocation
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3407	Equip Rep & Maint	5,757	Management Estimate	40.00%	60.00%	100.00%	2.3		3.454
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3801	Gasoline	2,257	Management Estimate	40.00%	60.00%	100.00%		03	1.354
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3804	Diesel Fuel	26,997	Management Estimate	40.00%	60.00%	100.00%	10,7		16,198
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3198	Backflow Program	139	Management Estimate	40.00%	60.00%	100.00%	1	56	83
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3601	Electricity	51,036	Management Estimate	40.00%	60.00%	100.00%	20,4		30,622
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3634	Water/Sew/Storm	1,950	Management Estimate	40.00%	60.00%	100.00%		80	1,170
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3628	Telephone/Cable Tv	6,429	Management Estimate	40.00%	60.00%	100.00%	2.5		3,857
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	4308	Overhead-Fleet	17,254	Management Estimate	40.00%	60.00%	100.00%	6,9		10,352
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	4373	Servchg-Fleet O&M	49,674	Management Estimate	40.00%	60.00%	100.00%	19,8		29,804
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	4213	Retiree Health Bene	2,303	Management Estimate	40.00%	60.00%	100.00%		21	1,382
CO	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	6416	Vehicles	256,612	Management Estimate	40.00%	60.00%	100.00%	102.6	45	153,967
CO	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	6499	Other Equipment	383,800	Management Estimate	40.00%	60.00%	100.00%	153.5	20	230,280
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	3428	Bldg Rep & Maint	4,798	Management Estimate	40.00%	60.00%	100.00%	1.5	19	2,879
PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	1801	Core Adjustments	221,356	Management Estimate	40.00%	60.00%	100.00%	88,5		132,814
PS	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	2402	Life Insurance	615	Management Estimate	40.00%	60.00%	100.00%		46	369
OMF	PBS660511	PBS66	DISTRIBUTION AND COLLECTION	4119	Training & Travel	6,908	Management Estimate	40.00%	60.00%	100.00%	2,7		4,145
OMF					Operating Enhancement	380,000	Management Estimate	40.00%	60.00%	100.00%	152,0		228,000
OMF					Bond Coverage Expense	924,390	Bond Projects	5.57%	94.43%	100.00%	51,4	85	872,905
					Transfers, Debt Service, & Cash Fu	inded Capital							
					Tr To Special Obligation Bonds	\$ 226,715	Indirect Allocation	39.19%	60.81%	100.00%	l s 88.	342 S	137,873
					Cumulative New Debt Service	12,789,667	Bond Projects	5.57%	94.43%	100.00%	712.3		12,077,331
					Cash Funded Capital	4,297,025	CIP/Infrastructure	15.69%	84.31%	100.00%	674.3		3,622,691
					Total Revenue Requirements	\$ 29,591,997					\$ 5,979,39		23,612,599

### Revenue Bond Issuance Allocation

Project Description	Project Amount		Allocation Basis/Factor	Quality	Quantity	Quality % Allocation			uantity % Ilocation
Durrs Area Stormwater Improvements	s	20,890,000	Management Estimate	5.00%	95.00%	\$	1,044,500	s	19.845.500
Southeast Isles Tidal And Strmwtr Impr		43,980,000	Management Estimate	5.00%	95.00%	1	2,199,000		41.781.000
River Oak Stormwater Analysis		37,975,000	Management Estimate	8.00%	92.00%	1	3,038,000		34,937,000
Edgewood Stormwater Improvements		30,475,000	Management Estimate	5.00%	95.00%	1	1,523,750		28,951,250
Progresso Stormwater Improvements		26,990,000	Management Estimate	5.00%	95.00%	1	1,349,500		25,640,500
Dorsey Riverbend Stormwater Improvements		20,890,000	Management Estimate	5.00%	95.00%	1	1.044.500		19.845.500
Victoria Park Tidal & Strmwtr Improvment		18,800,000	Management Estimate	5.00%	95.00%	]	940,000		17,860,000
Total Projects	\$	200,000,000				\$	11,139,250	\$	188,860,750
							5.57%		94.43%

# Capital Improvement Projects Allocation

Project Description	Projec	ct Amount	Cash Funded Capital		Allocation Basis/Factor	Quality	Quantity	The second second	uality % ocation	Quantity % Allocation	
Utilities Asset Management System	\$	40,000	\$	40,000	Management Estimate	5.00%	95.00%	\$	2,000	\$ 38,000	
800-850 Sw 21 Terr Stormwater Improvment		383,398		383,398	Management Estimate	5.00%	95.00%		19,170	364,228	
Citywide Stormwater Analysis		50,000		50,000	Management Estimate	5.00%	95.00%		2,500	47.50	
Drainage Canal Surveying And Assessment		14,016		14,016	Management Estimate	5.00%	95.00%		701	13,31	
Stormstation 1 Fixed Emerg Generators		395,250		395,250	Management Estimate	5.00%	95.00%		19,763	375,488	
Stormstation 2 Fixed Emerg Generators		297,500		297,500	Management Estimate	5.00%	95.00%		14,875	282,625	
1716 Se 7Th Street Stormwater Improvements		1,100,000	1	,100,000	Management Estimate	5.00%	95.00%		55,000	1,045,000	
32-101 S. Gordon Road Stormwater Improvements		382,653		382,653	Management Estimate	5.00%	95.00%		19,133	363,520	
Plant A Stormwater Treatment Facility Upgrades		1,211,984	1	,211,984	Indirect Allocation	39.19%	60.81%		474,934	737,050	
Total CIP	\$	3,874,801	\$ 3	,874,801				\$	608,074 15.69%	3,266,72 84.31	

### APPENDIX C

# FORM OF NOTICE TO BE PUBLISHED

To be Published by August 25, 2020

# NOTICE OF HEARING TO IMPOSE AND PROVIDE FOR COLLECTION OF NON-AD VALOREM ASSESSMENTS

Notice is hereby given that the City Commission of Fort Lauderdale, Florida, will conduct a public hearing to hear objections of all interested persons to the final assessment resolution of the Stormwater Management Special Assessment, as shown above, and to impose non-ad valorem assessments against certain property located therein and collecting the assessments on the ad valorem tax bill. The hearing will be held at 5:01 P.M. on September 14, 2020 in the City Commission Room, City Hall, 100 North Andrews Avenue, Fort Lauderdale, Florida. In accordance with the Americans with Disabilities Act, persons needing a special accommodation or an interpreter to participate in this proceeding should contact the City Clerk's office at (954) 828-5002 two days prior to the meeting.

All affected property owners have a right to appear at the hearing and to file written objections with the City Commission within 20 days of this notice. Any person wishing to appeal any decision of the City Commission with respect to any matter considered will need a record and may wish to ensure that a verbatim record is made.

The assessments have been proposed to fund the City's annual Stormwater operating and capital costs which serve the Special Assessment Area. The assessment will be divided among to specially benefitted tax parcels based upon the amount of Equivalent Benefit Units or EBUs attributable to each tax parcel. The Fiscal Year 2020-21 assessment rates are as follows:

Category	Billing Unit	Cost Per Billing Unit
Category I	Dwelling Units	\$218.71
Category II	Gross Acreage	\$2,273.01
Category III	Gross Acreage	\$567.00
Trip Generation	Trips	\$4.19

A more specific description of these assessment methodologies is set forth in the Initial Assessment Resolution adopted by the City Commission on July 7, 2020. Copies of the Initial Assessment Resolution, the plans and specifications for the Stormwater Management Program project, and the preliminary assessment rolls are available for inspection at the offices of the City Clerk, located at the City Hall, Fort Lauderdale, Florida.

the ad valorem tax bill for a period of 30 years, commencing with the tax bill to be mailed in November 2020. Failure to pay the assessments will cause a tax certificate to be issued against the property which may result in a loss of title.
If you have any questions, please contact at
NOTE: If any person decides to appeal any decision made with respect to any matter considered

Stormwater Management Assessments will be collected by the Broward County Tax Collector on

at this public meeting or hearing, he/she will need a record of the proceedings, and for such purpose he/she may need to ensure that verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. Anyone needing auxiliary services to assist in participation at the meeting, please contact the City Clerk at (954) 828-5002 two days prior to the meeting.

CITY CLERK OF FORT LAUDERDALE, FLORIDA