

**CITY OF HALLANDALE BEACH,
FLORIDA**



Hallandale Beach
PROGRESS. INNOVATION. OPPORTUNITY.

**WATER, WASTEWATER, AND
STORMWATER UTILITY RATE STUDY**

–Study as of August 15, 2018–

–Report Prepared August 20, 2019–



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RAFTELIS



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August 20, 2019

The Honorable Mayor and
Members of the City Commission
City of Hallandale Beach
400 S. Federal Highway
Hallandale Beach, FL 33009

Subject: **Water, Wastewater and Stormwater Utility Rate Study**

Ladies and Gentlemen:

Raftelis Financial Consultants, Inc. ("Raftelis"), formerly Public Resources Management Group, Inc. ("PRMG"), has completed our review of the water, wastewater, and stormwater rates for the City of Hallandale Beach, Florida (the "City") and has summarized the results of our analyses, assumptions, recommendations, and conclusions in this report which is submitted for your consideration. The analysis encompassed a financial evaluation for the five (5) fiscal year period of October 1, 2017 through September 30, 2022 (the "Forecast Period"). Based on the assumptions relied upon in the development of the projected utility system revenues and expenditure needs, Raftelis has identified the need for water and wastewater rate adjustments and no need for stormwater rate adjustments, which are summarized in this report.

The proposed rates are designed to meet a number of goals and objectives. The single most important objective of our analysis was to develop proposed rates that will produce revenues sufficient to meet the projected expenditure requirements of each utility system. Other goals and objectives considered in the study include:

- The proposed rates should allow the utility to maintain a financial position that is both sustainable and consistent with performance criteria established by the City and based on utility industry standards.
- The proposed rates should comply with any anticipated rate covenant requirements associated with existing debt or future borrowings.
- The proposed rates should be based on full cost recovery principles.
- The proposed rates should recognize historical rate structures or forms and avoid potential rate shock to the extent practical.
- The proposed rates, to the extent practical, should be comparable with those of neighboring utility systems.

The Honorable Mayor and
Members of the City Commission
City of Hallandale Beach
August 20, 2019
Page 2

The proposed monthly rates and charges for water, wastewater, and stormwater service are designed to meet the goals and objectives outlined above and should be sufficient to provide for the recovery of the total costs anticipated for each respective system over the Forecast Period.

Following this letter, we have provided an executive summary which briefly summarizes the results of our study and outlines our recommendations and conclusions. The remainder of the report provides additional details regarding the rate and financial analysis conducted on behalf of the City.

We appreciate the opportunity to be of service to the City and would like to thank the City staff for their valuable assistance and cooperation throughout the course of this study.

Respectfully submitted,

Raftelis Financial Consultants, Inc.



Henry L. Thomas
Vice-President



Shawn A. Ocasio
Senior Consultant

HLT/dlc
Attachments

CITY OF HALLANDALE BEACH, FLORIDA
WATER, WASTEWATER, AND STORMWATER UTILITY RATE STUDY

TABLE OF CONTENTS

Description	Page No.
Letter of Transmittal	
Table of Contents	i
List of Tables and Appendices.....	iii
EXECUTIVE SUMMARY AND RECOMMENDATIONS	ES-1
Introduction.....	ES-1
Summary of Study Results.....	ES-3
Findings, Conclusions, and Recommendations	ES-4
SECTION 1 – WATER AND WASTEWATER SYSTEMS	1-1
Introduction.....	1-1
Revenue Forecast	1-2
Revenue Requirements	1-2
Principal Assumptions and Considerations	1-3
Water and Wastewater System Revenue Requirements Summary.....	1-6
Adequacy of Existing Utility Rate Revenues	1-7
Debt Service Compliance	1-8
Proposed Water and Wastewater Rates and Comparisons	1-9
SECTION 2 – STORMWATER SYSTEM	2-1
Introduction.....	2-1
Revenue Forecast	2-1
Revenue Requirements	2-2
Principal Assumptions and Considerations	2-2

CITY OF HALLANDALE BEACH, FLORIDA
WATER, WASTEWATER, AND STORMWATER UTILITY RATE STUDY
TABLE OF CONTENTS (cont'd.)

Description	Page No.
SECTION 2 – STORMWATER SYSTEM (cont'd.)	
Stormwater System Revenue Requirements Summary	2-5
Adequacy of Existing Utility Rate Revenues	2-6
Debt Service Compliance	2-6
Proposed Residential Stormwater Rates and Comparisons	2-7

CITY OF HALLANDALE BEACH, FLORIDA

WATER, WASTEWATER, AND STORMWATER UTILITY RATE STUDY

LIST OF TABLES AND APPENDICES

Table No.	Description
1-1	Summary of Projected Water Customer Growth and Billing Determinants
1-2	Summary of Projected Wastewater Customer Growth and Billing Determinants
1-3	Projected Water Revenues at Existing Rates
1-4	Projected Wastewater Revenues at Existing Rates
1-5	Projected Other Operating Revenues
1-6	Projected Water and Wastewater Impact Fee Revenues
1-7	Fiscal Year 2018 Budgeted Water Operating Expenses
1-8	Fiscal Year 2018 Budgeted Wastewater Operating Expenses
1-9	Projected Water Operating Expenses
1-10	Projected Wastewater Operating Expenses
1-11	Summary of Projected Water and Wastewater System Expense Escalation Factors
1-12	Allocation References
1-13	Projected Bulk Sewer Purchase Costs
1-14	Projected Capital Funding Program
1-15	Existing and Projected Debt Service Payments
1-16	Projected Transfers to the Renewal and Replacement Fund
1-17	Projected Intergovernmental Transfers
1-18	Projected Water Revenue Requirements
1-19	Projected Wastewater Revenue Requirements
1-20	Projected Water and Wastewater Revenue Requirements
1-21	Projected Available Water Fund Balances and Interest Earnings
1-22	Projected Available Wastewater Fund Balances and Interest Earnings
1-23	Projected Debt Service Coverage
1-24	Comparison of Typical Monthly Residential Bills for Water Service
1-25	Comparison of Typical Monthly Residential Bills for Wastewater Service
1-26	Comparison of Typical Monthly Residential Bills for Combined Water and Wastewater Service
Appendix No.	Description
1	Water and Wastewater System Financial Dashboards and Performance Metrics

CITY OF HALLANDALE BEACH, FLORIDA

WATER, WASTEWATER, AND STORMWATER UTILITY RATE STUDY

LIST OF TABLES

Table No.	Description
2-1	Projected Operating and Non-Operating Revenues
2-2	Fiscal Year 2018 Budgeted Stormwater Operating Expenses
2-3	Projected Stormwater Operating Expenses
2-4	Summary of System Expense Escalation Factors
2-5	Projected Capital Improvement Program Funding Plan
2-6	Projection of Existing and Proposed Debt Service Payments
2-7	Projected Transfer to Renewal and Replacement Fund
2-8	Projected Intergovernmental Transfers
2-9	Projected Fund Balances & Interest Income
2-10	Development of Net Requirements from Rates
2-11	Projected Debt Service Coverage
2-12	Comparison of Monthly Residential Stormwater Rates

Appendix No.	Description
2	Stormwater System Financial Dashboards and Performance Metrics

EXECUTIVE SUMMARY AND RECOMMENDATIONS

CITY OF HALLANDALE BEACH, FLORIDA

WATER, WASTEWATER, AND STORMWATER UTILITY RATE STUDY

EXECUTIVE SUMMARY AND RECOMMENDATIONS

INTRODUCTION

The City of Hallandale Beach (the "City") is located in Broward County along the southeast coast of Florida. Based on Census reports and population projections provided by the City, the estimated population of the City is approximately 39,500 residents. The City currently provides water, wastewater, and stormwater service to its residents.

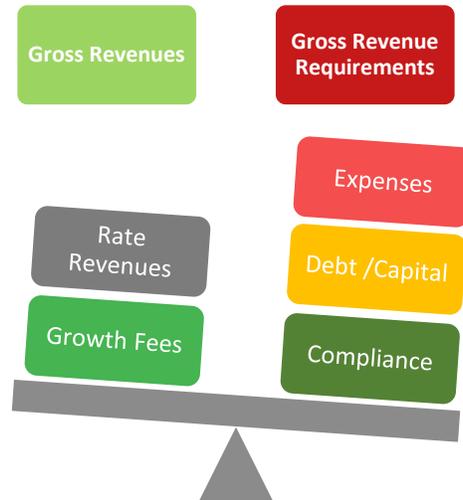
The City's utilities provide essential services on a continual basis and operate in a regulated environment. Regulatory agencies for the utilities include the United States Environmental Protection Agency ("EPA"), the Florida Department of Environmental Protection ("FDEP"), the South Florida Water Management District ("SFWMD"), and the Florida Department of Health.

The City's water, wastewater and stormwater utilities are established as two separate enterprise funds: water and wastewater, and stormwater. Each enterprise fund should have revenues equal to the costs of the services provided and should establish rates sufficient to cover the cost of operating, maintaining, repairing, and financing system operations. According to the Governmental Accounting Standards Board, "Enterprise Funds should be used to account for operations that are financed and operated in a manner similar to private business enterprises – where the intent of the governing body is that costs of providing services to the general public on a continuing basis should be financed or recovered primarily through user charges."

While the City annually reviews the financial position of each system as part of the budgetary process, the City last adjusted its utility rates in October 2017. To evaluate the sufficiency of the current water, wastewater, and stormwater rates, the City authorized Raftelis Financial Consultants, Inc. ("Raftelis"), formerly Public Resources Management Group, Inc. ("PRMG"), to conduct a comprehensive rate analysis to estimate the adequacy of rates through Fiscal Year 2022.

The foundation of the study and the primary objective of the utility rates are to reasonably recover the cost of providing service and the cost of infrastructure investment, as well as to comply with covenants of the outstanding and anticipated future indebtedness and identified fiscal policies / targets (referred to as the "revenue sufficiency" evaluation).

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As shown in the preceding figure, the various components of cost associated with operating and maintaining a municipally owned utility, as well as the cost of financing the renewal and replacement of facilities and capital improvements for upgrades and expansion, are generally referred to as the utility cash revenue requirements. The sum of these cost components, after adjusting for other income and other operating revenues available to the utility, represents the net rate revenue requirements of the utility system.

The revenue requirements for this rate study were predicated on an analysis of water, wastewater, and stormwater costs projected through the fiscal year ending September 30, 2022 (i.e., Fiscal Years 2018 through 2022). The projected revenue requirements included the various generalized cost components described as follows:

- Operating Expenses: Operating expenses include the cost of labor, utilities, operating supplies, repairs and maintenance, allocated General Fund administrative costs, and other items necessary for the operation and maintenance of the utilities.
- Capital Reinvestment: Capital reinvestment includes the amount of annual deposits made from rates to fund ongoing renewals, replacements, improvements, and betterments not financed by the issuance of debt obligations.
- Debt Service: Debt service includes the principal and interest on the City's currently outstanding and any future anticipated debt or loan obligations payable from the net operating revenues of the systems.
- Other Revenue Requirements: This component of cost includes any other funding requirements from rates including, but not limited to, transfers to the General Fund and transfers to reserves for future year expenditures.

The following is a summary of the net revenue requirements derivation:

+ Cost of Operation and Maintenance
+ Debt Service Payments (Senior and Subordinate)
+ Transfers and Administration Payments
+ Capital Project Financing
+ Working Capital Reserves / Financial Compliance
- Other Operating Revenue
- Impact Fees Used to Pay Growth-Related Debt Service
- <u>Interest Income</u>
<u>= Net Revenue Requirements (Funded from User Rates)</u>

SUMMARY OF STUDY RESULTS

Based on the assumptions relied upon in the development of the projected revenue requirements for each system, Raftelis has identified the need for rate adjustments for the water and wastewater system, but no rate adjustments were identified for the stormwater system. The primary reasons for the water and wastewater rate adjustments include the following:

1. The need to fund annual renewal and replacement requirements and other capital needs of each system, including infrastructure upgrades and replacements for the water and wastewater systems.
2. Increased operating expenses as a result of anticipated inflationary effects on the costs of labor, electricity, fuel, and other major expenditures for the utilities, as well as the need for additional staffing. The Congressional Budget Office has projected the national consumer price index ("CPI") for all urban customers to increase approximately 2.4% per year during the Forecast Period. Due to the need to meet regulatory requirements and the capital-intensive nature of utility operations, utility costs typically increase at a higher rate than general inflation.
3. The need to maintain compliance with debt service coverage ratios associated with existing and anticipated utility indebtedness.
4. The need to maintain adequate operating and capital reserves and margins to provide funds for emergencies.
5. Maintaining the ability of the utilities to fund annual intragovernmental transfers to the General Fund (e.g., payment-in-lieu-of-franchise-fees).

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Based on the financial forecast and funding plan for each system which are described in detail in this report, the following rate adjustments are recommended:

	Proposed Retail Rate Increases by Fiscal Year				
	2018 [*]	2019	2020	2021	2022
Water System	0.0%	0.0%	3.0%	3.0%	3.0%
Wastewater System	0.0%	0.0%	2.0%	2.0%	2.0%
Stormwater	0.0%	0.0%	0.0%	0.0%	0.0%
Effective Date	Oct. 1 st	Oct. 1 st	Oct. 1 st	Oct. 1 st	Oct. 1 st

[*] The City adopted and implemented a 4.0% rate increase for the water system, a 16.5% rate increase for the wastewater system and a 120.0% rate increase for the stormwater system effective October 1, 2017 (i.e., the start of Fiscal Year 2018). The proposed rate increases shown are for adjustments to follow those already implemented rate changes.

The adjustments shown above have been reviewed by City staff and are considered to be representative of the increases in costs to effectively operate and maintain the water, wastewater, and stormwater systems.

Sections 1 and 2 of this report, which follow this section, summarize the major assumptions, considerations, and analyses used to evaluate the sufficiency of the water, wastewater, and stormwater rates.

FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

Based on our studies, assumptions, considerations, and analyses, Raftelis offers the following findings and conclusions for consideration by the City Council:

1. The City's existing user rates for water and wastewater services are not anticipated to be adequate to fully recover the City's projected revenue requirements during the Forecast Period. The City's existing rates for stormwater service are anticipated to be adequate to fully recover the City's projected revenue requirements during the Forecast Period.
2. The City should consider adopting the proposed water adjustments as previously described in this Executive Summary. The proposed adjustment for Fiscal Year 2020 represents a 3.0% increase over the existing water rates.
3. The City should consider adopting the proposed wastewater rates as previously described in this Executive Summary. The proposed adjustment for Fiscal Year 2020 represents a 2.0% increase over the existing wastewater retail rates.
4. The City should hold its stormwater rates constant as previously described in this Executive Summary.
5. The City should continue performing periodic updates to the financial forecast to ensure that the proposed rate adjustments for the Forecast Period remain adequate based on the potential for changing circumstances, particularly as it relates to the cost of wholesale wastewater treatment service provided by the City of Hollywood.

6. The City should consider the development of a wholesale wastewater treatment pass-through clause to ensure full recovery of future costs from the City of Hollywood.

Following the Executive Summary, the remainder of this report outlines the assumptions for the projected revenues and expenditures for each enterprise fund.

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SECTION 1

WATER AND WASTEWATER SYSTEMS

CITY OF HALLANDALE BEACH, FLORIDA

WATER, WASTEWATER, AND STORMWATER UTILITY RATE STUDY

SECTION 1 – WATER AND WASTEWATER SYSTEMS

INTRODUCTION

The purpose of this section is to summarize the development of proposed water and wastewater rates sufficient to recover the cost of operating, maintaining, repairing, and financing the water and wastewater systems as projected through Fiscal Year 2022. As outlined in this report, water and wastewater rate adjustments are proposed in order to support the revenue requirements projected for the water and wastewater systems. The City's current capital improvement program reflects capital investments to upgrade and replace aging water transmission and distribution lines and to rehabilitate portions of the City's wastewater collection system. Additionally, there are significant capital costs associated with expanding the water and wastewater system that are expected to be funded through the use of reserves, water and wastewater impact fees, and additional debt. Based on the projected operating results, the City can meet the projected water and wastewater system revenue requirements (i.e., expenditures) for Fiscal Years 2018 through 2022 with the following annual adjustments:

	Proposed Retail Rate Increases by Fiscal Year [1]				
	2018 [2]	2019	2020	2021	2022
Water System	0.0%	0.0%	3.0%	3.0%	3.0%
Wastewater System	0.0%	0.0%	2.0%	2.0%	2.0%
Effective Date	Oct. 1 st	Oct. 1 st	Oct. 1 st	Oct. 1 st	Oct. 1 st

[1] Increases shown summarized on Tables 1-1 and 1-2.

[2] The City adopted and implemented a 4.0% rate increase for the water, a 16.5% rate increase for the wastewater system and a 120.0% rate increase for the stormwater system effective October 1, 2017 (i.e., the start of Fiscal Year 2018). The proposed rate increases shown are for adjustments to follow those already implemented rate changes.

The primary reasons for the recommended rate increases shown above include:

1. Increased operating expenses as a result of anticipated inflationary effects on the costs of labor, electricity, fuel, and other major expenditures for the water and wastewater systems, as well as the need for additional staffing.
2. The need to fund annual renewal and replacement requirements and other capital needs of the water and wastewater systems.
3. The need to maintain compliance with debt service coverage ratios associated with existing and anticipated utility indebtedness. The capital program funding plan recognizes the use of additional utility indebtedness to finance expansion-related water projects.
4. The need to maintain adequate operating and capital reserves and margins to provide funds for emergencies (e.g., hurricane preparedness).

5. Maintaining the ability of the water and wastewater enterprise to fund annual intragovernmental transfers to the General Fund (e.g., payment-in-lieu-of-franchise-fees).

The recommendations of this study are based on a financial forecast developed for the water and wastewater systems and this section discusses the study assumptions, considerations, goals, and recommendations. The study began with the identification of utility operating and capital needs, next considered the capital financing plan and, finally, established the timing of rate adjustments and borrowing to fund the projected revenue requirements. The financial forecast serves as the basis for the rate recommendations for Fiscal Years 2018 through 2022 (the "Forecast Period").

REVENUE FORECAST

The City of Hallandale Beach has recently been experiencing low customer growth within its water and wastewater systems; however, there are opportunities to extend water and wastewater services to new properties, which the City is actively pursuing. The City has developed a Downtown Activity Center Program based on the expansion of water and wastewater lines into new areas and redevelopment into existing areas.

Tables 1-1 and 1-2, at the end of this section, summarize the assumptions regarding the new growth for the Forecast Period. Based on the information provided in Tables 1-1 and 1-2 and discussions with the City staff, it is estimated that approximately 1,925 new water customers and 1,829 new wastewater customers will connect to the water and wastewater systems by Fiscal Year 2022. Therefore, future revenues from existing monthly user rates are assumed to increase over the Forecast Period by approximately \$1.60 million annually by Fiscal Year 2022.

Water rate revenues are projected for Fiscal Year 2018 at \$10.3 million and increasing to approximately \$11.0 million by Fiscal Year 2022. Wastewater rate revenues are projected for Fiscal Year 2018 at \$14.2 million and increasing to approximately \$15.1 million by Fiscal Year 2022. The rate revenues projected under existing rates are shown in Tables 1-3 and 1-4 at the end of this section.

The City also collects other income for the water and wastewater systems such as delinquent fees, turn-on / turn-off fees, tap fees, and other related utility charges. The System also receives a transfer for services rendered from the CRA Fund, the Sanitation Fund, the Cemetery Fund and the Stormwater Fund. The City budgets this income annually, and based on the projected customer growth, our analysis assumed that such revenues and income would increase significantly in future years. Other revenues are projected to increase from approximately \$1.01 million to \$1.63 million over the Forecast Period, and the majority of this growth relates to meter tap fees associated with new accounts connecting as a result of the projected growth. Additionally, the City collects impact fees from new growth which are projected to be approximately \$190,000 in 2018 and then average \$1.3 million in Fiscal Years 2019 through 2022.

REVENUE REQUIREMENTS

The various expenditures associated with operating and maintaining a municipally owned utility system, as well as the cost of financing the renewal and replacement of facilities and capital improvements for upgrades and expansion, are generally referred to as the utility revenue

requirements. The sum of these cost components, after adjusting for other income and miscellaneous utility revenues, represents the net revenue requirements. The revenue requirements for this rate analysis are predicated on an analysis of water and wastewater costs for the Forecast Period.

PRINCIPAL ASSUMPTIONS AND CONSIDERATIONS

The projected revenue requirements are shown on Tables 1-18 and 1-19 at the end of this section for the water and wastewater systems, respectively, and are also summarized on a combined system basis in Table 1-20. The projected revenue requirements reflect certain assumptions, considerations and analyses as follows:

1. As shown in Tables 1-7 and 1-8, the adopted Fiscal Year 2018 Budget associated with the operations of the water and wastewater utility systems served as the basis for the expenditure projections shown in detail in Tables 1-9 and 1-10 at the end of this section.
2. The operating and maintenance expenses of the water and wastewater systems for Fiscal Year 2018 are projected for the remaining four (4) years of the Forecast Period (i.e., through Fiscal Year 2022) as illustrated in Tables 1-9 and 1-10 for the water and wastewater systems, respectively. The following summarizes a few of the general cost escalation factors used to project future expenditures that can be found on Table 1-11 at the end of this section:
 - a. Labor-Related Increases = 3.0% annually.
 - b. Health Insurance = 10.0% annually.
 - c. Professional / Contractual Services = 3.0% annually.
 - d. Utility and Fuel Costs = 5.0% annually.
 - e. Repairs and Maintenance Expenses = 3.0% annually.
 - f. Costs assumed to be based on projected changes in the CPI = approximately 2.4% per year as represented in "The Budget and Economic Outlook: An Update" published by the Congressional Budget Office in June 2017.

Also included in the expense projections are the costs associated with the hiring of a new Public Service Worker in Fiscal Year 2021 for approximately \$58,000 per year including benefits.

3. The City currently has a bulk agreement whereby it purchases wastewater treatment capacity and service from the City of Hollywood, Florida. Based on the sales projections in Table 1-2, an allowance for infiltration and inflow ("I&I") of 37% (based on historical data provided by the City), and the rates for service charged by the City of Hollywood (assumed to increase by 5% per year), this operating cost is projected to increase from \$9.5 million in 2018 to \$11.7 million in 2022. However, the City also has an ongoing project / program in its capital improvement plan that intends to reduce the I&I from 37% to 24% over the

Forecast Period. This project is anticipated to reduce the projected bulk wastewater treatment costs over the forecast period down to \$10.7 million (from \$11.7 million) by 2022. The projected wastewater treatment costs do not include any cost increases due to the City of Hollywood's implementation of new ocean outfalls to upgrade the effluent disposal system, as such costs are not fully known at this time. In addition to the projected bulk wastewater costs described above, an allowance for bulk wastewater true-up costs was assumed in all years of the Forecast Period. Based on information provided by and discussions with the City, an allowance of \$1.0 million per year was assumed to be funded from rate revenues for these true up payment costs.

4. The capital expenditures for the water and wastewater systems are based on estimated project costs included in the City's capital improvement program ("CIP"), which includes the current year (Fiscal Year 2018) through Fiscal Year 2022. Table 1-14 at the end of this section provides a detailed listing of the planned water and wastewater capital projects during the Forecast Period. In general, the major expenditures in the CIP include water plant expansion projects, water main replacement and upgrades, wastewater lift station and main replacements and upgrades, and ongoing capital outlay associated with vehicles and equipment.
5. The following table summarizes the anticipated sources of cash that are assumed to be used to fund the CIP as derived from Table 1-14:

Description	Amount	Percent
Rate Revenues	\$11,505,016	24%
Operating Fund	5,084,037	11%
Renewal and Replacement Fund	4,876,048	10%
Impact Fees	2,526,376	5%
Proposed New Debt	7,768,684	17%
Proportionate Share Revenues	15,605,161	33%
Total Capital Funding Sources	\$47,365,322	100%

[*] Amounts derived from Table 1-14.

6. As shown in Table 1-15, the water and wastewater systems have outstanding debt requiring annual principal and interest payments of approximately \$960,000 per year. Such existing debt is comprised of two bank loans and a junior lien state revolving fund ("SRF") loan. In addition to making the annual debt service payments, the City is required to ensure that revenues available for debt provide a senior lien margin (or coverage) of 115% and that net revenues provide a junior lien margin of 115% (after the payment of senior lien debt, including coverage).
7. In order to fund the CIP and minimize rate impacts an additional debt issuance is projected. The CIP shown in Table 1-14 uses approximately \$7.8 million in new debt funding over the Forecast Period through one new loan. Based on discussions with the City staff, the City plans to pursue a 15-year term bank note with an estimated interest cost of 4.50% per

year. The incremental increase in debt service payments associated with this proposed loan starts in Fiscal Year 2020 and is approximately \$816,000 per year.

8. In order to meet the asset replacement needs included in the CIP, as discussed earlier, and to maintain the City's target balance policy of having 7.5% of prior year's revenues on deposit in the Renewal and Replacement Fund ("R&R"), a deposit to the Renewal and Replacement Fund is anticipated to be required during the Forecast Period. The R&R Fund is projected to be over the targeted balance during most of the forecast period as shown in Tables 1-16, 1-21, and 1-22 at the end of this section. However, in Fiscal Year 2022 it is anticipated that a deposit will need to be made from annual revenues to maintain the City's targeted R&R Fund balance policy. This future deposit is anticipated to be approximately \$887,000. Future fiscal years (outside our Forecast Period) may require additional deposits depending on the water and wastewater system's capital needs and fund balances at that time.
9. Based on the proposed Fiscal Year 2018 Budget, the water and wastewater systems will transfer \$111,600 to the General Liability Self Insurance Fund. As shown in Table 1-17 at the end of this section, this amount is funded during each year of the Forecast Period for approximately \$119,000 per year on average.
10. The water and wastewater systems should have adequate cash reserves in order to meet day-to-day funding needs and any unexpected emergencies requiring immediate financial resources. Based on discussions with the City staff, a financial target of at least 120 days of annual revenues was established for the operating fund since the utility is capital-intensive and must be able to cover unforeseen or emergency expenditures. Additionally, the City maintains a target balance of 7.5% of prior year revenues for the Renewal and Replacement Fund. The following tabulation, which is derived from Tables 1-21 and 1-22 at the end of this section, summarizes the projected cash balances for each fiscal year of the Forecast Period based on the implementation of the proposed water and wastewater rate increases recommended herein:

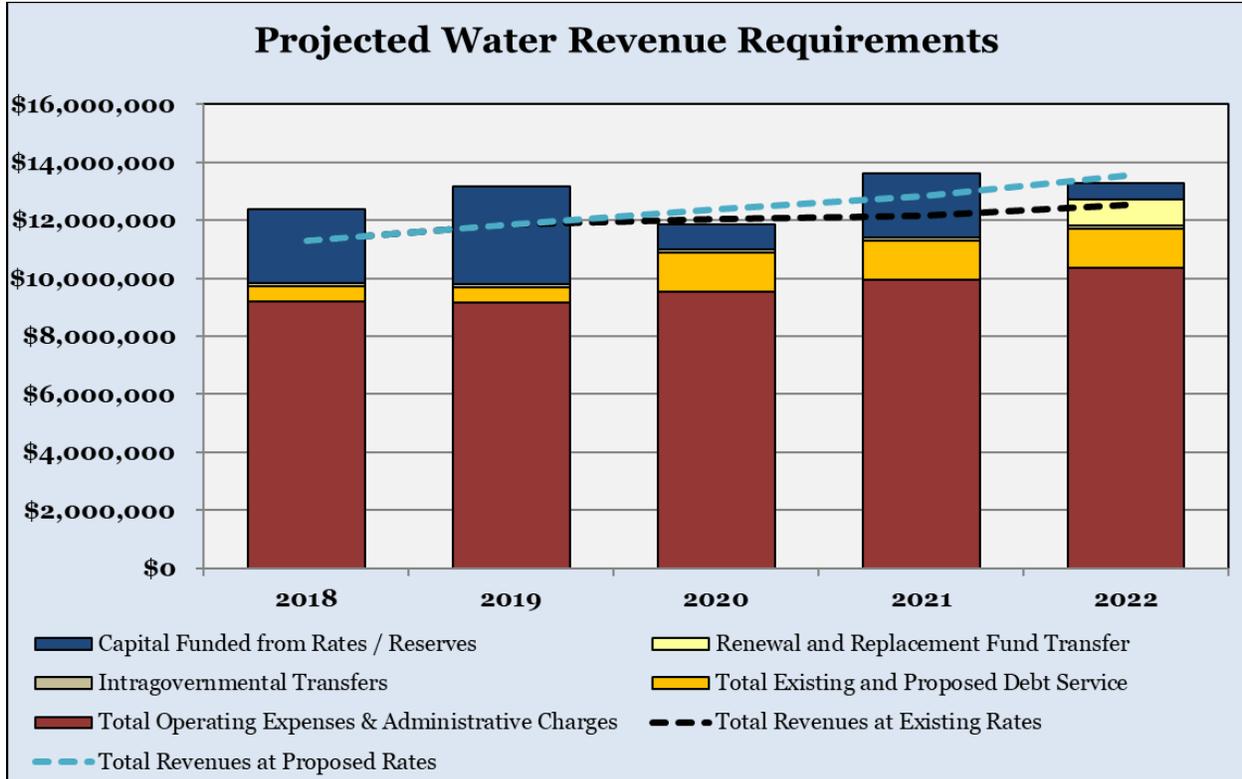
Projected Year-Ending Cash Balances at Proposed Rates [*]

Description	Projected Fiscal Year Ending September 30,				
	2018	2019	2020	2021	2021
Operating Fund	\$11,846,970	\$9,616,719	\$10,754,686	\$9,977,353	\$11,056,611
Reserve for Equipment	1,118,597	1,118,597	1,118,597	1,118,597	1,118,597
Customer Deposits	1,829,462	1,829,462	1,829,462	1,829,462	1,829,462
Renewal and Replacement Fund	6,251,233	5,027,233	3,751,990	2,450,490	2,261,826
Construction Fund	0	0	3,655,574	0	0
Impact Fee Funds	455,401	1,737,374	3,050,867	2,244,803	3,872,426
Total Ending Cash	\$21,501,662	\$19,329,384	\$24,161,176	\$17,620,705	\$20,138,921
Operating Fund Days of Annual Revenues	177	141	152	135	144
Unrestricted Cash Days of Annual Revenues	286	231	220	184	188

[*] Amounts shown based on Tables 1-21 and 1-22.

WATER AND WASTEWATER SYSTEM REVENUE REQUIREMENTS SUMMARY

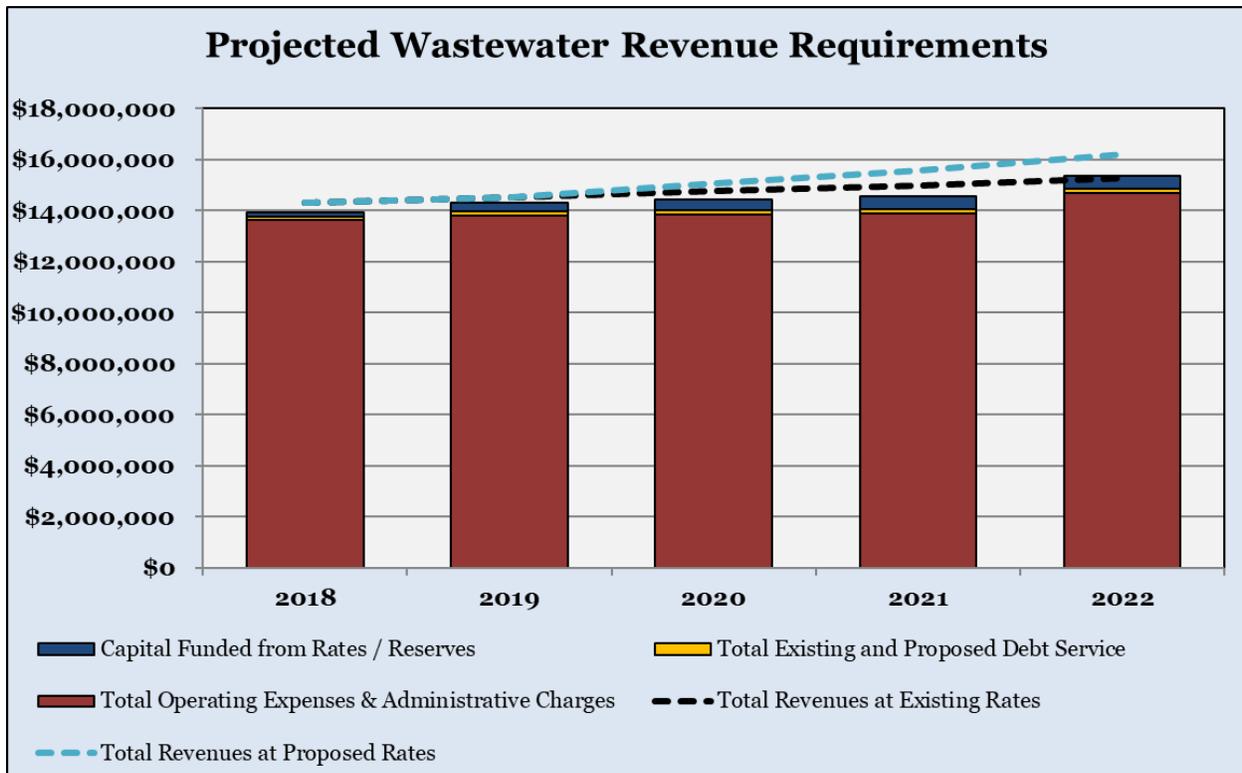
The projected net revenue requirements through Fiscal Year 2022 for the City's water system to be recovered from user rates are shown in Table 1-18 at the end of this section and summarized in the chart below as follows:



As can be seen in the summary above, the estimated gross revenue requirements for the water system for the Forecast Period are anticipated to increase by approximately 7.5% in total or 1.8% per year on average.

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The corresponding net revenue requirements projected through Fiscal Year 2022 for the wastewater system are shown in Table 1-19 at the end of this section and summarized as in the chart below as follows:

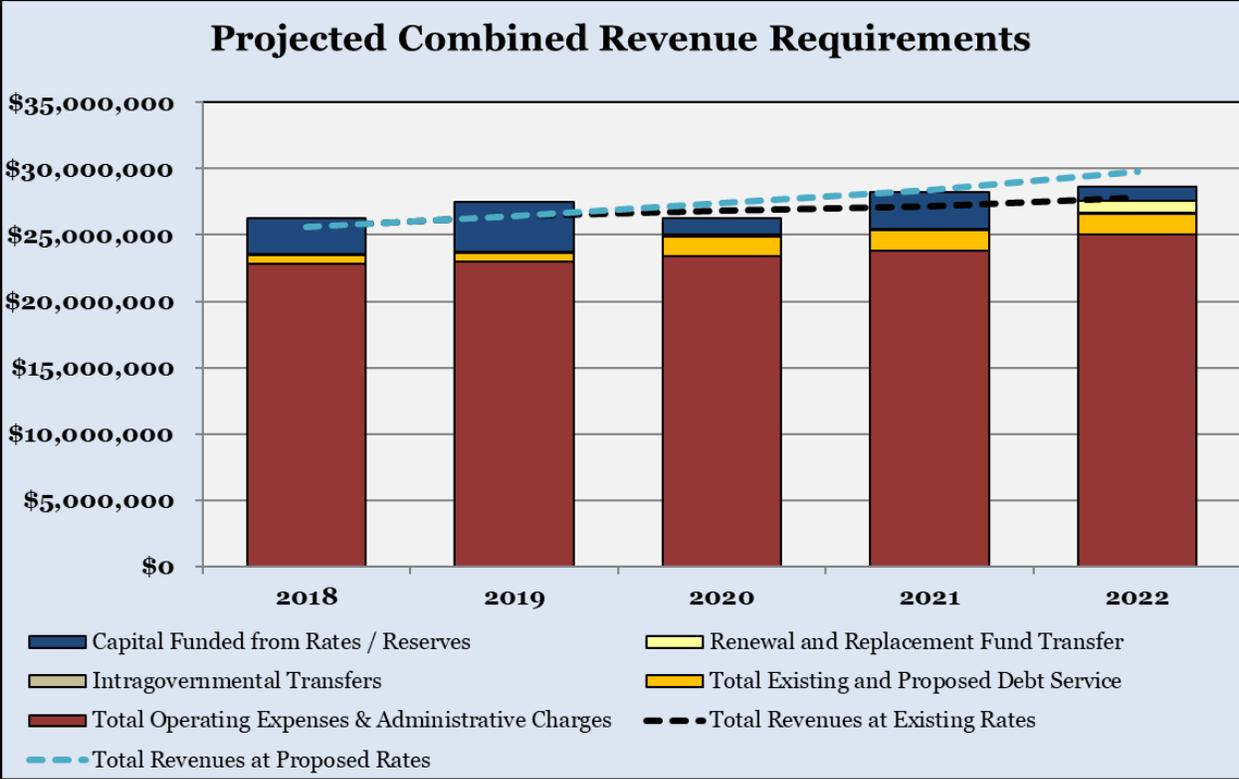


As can be seen in the above summary, the estimated gross revenue requirements for the wastewater system for the Forecast Period are anticipated to increase by approximately 10.5% in total or 2.5% per year on average.

ADEQUACY OF EXISTING UTILITY RATE REVENUES

As shown in Table 1-20 at the end of this section, based on the forecast of sales and revenues for the water and wastewater systems and the assumptions and considerations set forth herein with respect to the estimation of water and wastewater system revenue requirements, the existing rate revenue deficiencies for the Forecast Period are anticipated to be as follows:

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As shown above for the combined water and wastewater systems, an annual increase of 3% for Fiscal Years 2020 through 2022 in the water rates and an annual 2.0% wastewater rate increase is recommended for bills rendered on or after October 1st of each fiscal year. If the proposed increases are adopted, it is estimated that revenues would: i) meet the projected net revenue requirements of the water and wastewater systems by Fiscal Year 2022; ii) exceed the minimum debt service coverage requirements on existing and future debt; and iii) achieve unrestricted cash reserves of approximately 120 days of annual rate revenues.

DEBT SERVICE COMPLIANCE

In addition to funding the net revenue requirements (i.e., expenditure requirements), the proposed water and wastewater rates must be sufficient to meet the debt service coverage requirements of the City's existing and proposed debt. The City's outstanding senior lien loan agreements require the City to maintain rates adequate to achieve a minimum 1.15 debt service coverage ratio on senior lien debt. The debt service coverage ratio is calculated as a ratio of gross system revenues less the sum of operating expenses and required transfers to debt service payments. Additionally, the City must achieve a junior lien debt service coverage ratio of 1.15 after the payment of senior lien debt, including senior lien coverage. Based on the adoption of the proposed rate increases, the City is anticipated to be in compliance with the rate covenants as shown in Table 1-23 at the end of this section.

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PROPOSED WATER AND WASTEWATER RATES AND COMPARISONS

In accordance with the rate design guidelines, customer forecast, projected net revenue requirements, and discussions with City staff, Raftelis developed the proposed water and wastewater user rates adjustments as described in the Executive Summary. Since Raftelis considers the City's current water and wastewater rate structure to be adequate, the proposed adjustments were applied uniformly or "across-the-board" to the existing rates. Tables 1-24 through 1-26 at the end of this section provide detailed water and wastewater rate comparisons with the charges of neighboring jurisdictions. The proposed water and wastewater rates effective for bills rendered on October 1, 2019 are competitive with other residential charges for neighboring utilities, as shown below:

Residential Water and Wastewater Monthly Bill Comparison [*]			
Description	3/4" Meter – 5,000 Monthly Gallons		
	Water	Wastewater	Combined
City of Hallandale Beach:			
Existing Rates	\$25.32	\$40.48	\$65.80
Proposed Rates – October 2019 (Fiscal Year 2020)	26.06	41.28	67.34
Other Florida Utilities [*]	\$32.21	\$42.04	\$74.25

[*] Based on a survey of 22 other Florida utilities at an average monthly usage of 5,000 gallons per month which is the City's average monthly usage per residential account.

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City of Hallandale Beach, Florida
Water and Wastewater Utility Rate Study



List of Tables and Appendices

<u>Table Number</u>	<u>Table Description</u>
1-1	Summary of Projected Water Customer Growth and Billing Determinants
1-2	Summary of Projected Wastewater Customer Growth and Billing Determinants
1-3	Projected Water Revenues at Existing Rates
1-4	Projected Wastewater Revenues at Existing Rates
1-5	Projected Other Operating Revenues
1-6	Projected Water and Wastewater Impact Fee Revenues
1-7	Fiscal Year 2018 Budgeted Water Operating Expenses
1-8	Fiscal Year 2018 Budgeted Wastewater Operating Expenses
1-9	Projected Water Operating Expenses
1-10	Projected Wastewater Operating Expenses
1-11	Summary of Projected Water and Wastewater System Expense Escalation Factors
1-12	Allocation References
1-13	Projected Bulk Sewer Purchase Costs
1-14	Projected Capital Funding Program
1-15	Existing and Projected Debt Service Payments
1-16	Projected Transfers to the Renewal and Replacement Fund
1-17	Projected Intergovernmental Transfers
1-18	Projected Water Revenue Requirements
1-19	Projected Wastewater Revenue Requirements
1-20	Projected Water and Wastewater Revenue Requirements
1-21	Projected Available Water Fund Balances and Interest Earnings
1-22	Projected Available Wastewater Fund Balances and Interest Earnings
1-23	Projected Debt Service Coverage
1-24	Comparison of Typical Monthly Residential Bills for Water Service
1-25	Comparison of Typical Monthly Residential Bills for Wastewater Service
1-26	Comparison of Typical Monthly Residential Bills for Combined Water and Wastewater Service

Appendix 1 Water and Wastewater System Financial Dashboards and Performance Metrics

Table 1-1
City of Hallandale Beach
Water and Wastewater Utility Rate Study

Summary of Projected Water Customer Growth and Billing Determinants

Line No.	Description	Historical [1]	Projected Fiscal Year Ending September 30,				
		2017	2018	2019	2020	2021	2022
WATER SYSTEM							
<u>Water Service</u>							
Single Family							
1	Annual Average Units	5,008	5,081	5,608	6,147	6,636	7,304
2	Average Growth in Accounts	N/A	61	442	452	410	560
3	Annual Average Accounts	4,172	4,233	4,675	5,127	5,537	6,097
4	Average Monthly Use per Account (Gallons)	5,836	5,828	5,773	5,728	5,693	5,653
5	Average Monthly Use per Unit (Gallons)	4,862	4,855	4,813	4,777	4,750	4,718
6	Total Projected Consumption (000s)	292,173	296,020	323,891	352,394	378,248	413,560
Multi-Family							
7	Annual Average Units	23,120	23,120	23,120	23,120	23,120	23,120
8	Average Growth in Accounts	N/A	0	0	0	0	0
9	Annual Average Accounts	1,025	1,025	1,025	1,025	1,025	1,025
10	Average Monthly Use per Account (Gallons)	81,377	81,377	81,377	81,377	81,377	81,377
11	Average Monthly Use per Unit (Gallons)	3,608	3,608	3,608	3,608	3,608	3,608
12	Total Projected Consumption (000s)	1,000,933	1,000,933	1,000,933	1,000,933	1,000,933	1,000,933
Commercial							
13	Annual Average Units	2,420	2,420	2,420	2,420	2,420	2,420
14	Average Growth in Accounts	N/A	0	0	0	0	0
15	Annual Average Accounts	747	747	747	747	747	747
16	Average Monthly Use per Account (Gallons)	37,892	37,892	37,892	37,892	37,892	37,892
17	Average Monthly Use per Unit (Gallons)	11,696	11,696	11,696	11,696	11,696	11,696
18	Total Projected Consumption (000s)	339,665	339,665	339,665	339,665	339,665	339,665
City							
19	Annual Average Units	30	30	30	30	30	30
20	Average Growth in Accounts	N/A	0	0	0	0	0
21	Annual Average Accounts	29	29	29	29	29	29
22	Average Monthly Use per Account (Gallons)	31,261	31,261	31,261	31,261	31,261	31,261
23	Average Monthly Use per Unit (Gallons)	30,219	30,219	30,219	30,219	30,219	30,219
24	Total Projected Consumption (000s)	10,879	10,879	10,879	10,879	10,879	10,879
Total Water Service							
25	Annual Average Units	30,578	30,651	31,178	31,717	32,206	32,874
26	Average Growth in Accounts	N/A	61	442	452	410	560
27	Annual Average Accounts	5,973	6,034	6,476	6,928	7,338	7,898
28	Average Monthly Use per Account (Gallons)	22,932	22,753	21,559	20,495	19,643	18,623
29	Average Monthly Use per Unit (Gallons)	4,479	4,479	4,478	4,477	4,476	4,474
30	Total Projected Consumption (000s)	1,643,650	1,647,497	1,675,368	1,703,871	1,729,725	1,765,037

Table 1-1
City of Hallandale Beach
Water and Wastewater Utility Rate Study

Summary of Projected Water Customer Growth and Billing Determinants

Line No.	Description	Historical [1]	Projected Fiscal Year Ending September 30,				
		2017	2018	2019	2020	2021	2022
Multi-Family							
91	Annual Average Units	55	55	55	55	55	55
92	Average Growth in Accounts	N/A	0	0	0	0	0
93	Annual Average Accounts	55	55	55	55	55	55
94	Average Monthly Use per Account (Gallons)	5,905	5,905	5,905	5,905	5,905	5,905
95	Average Monthly Use per Unit (Gallons)	5,905	5,905	5,905	5,905	5,905	5,905
96	Total Projected Consumption (000s)	3,897	3,897	3,897	3,897	3,897	3,897
Commercial							
97	Annual Average Units	89	89	89	89	89	89
98	Average Growth in Accounts	N/A	0	0	0	0	0
99	Annual Average Accounts	89	89	89	89	89	89
100	Average Monthly Use per Account (Gallons)	4,167	4,167	4,167	4,167	4,167	4,167
101	Average Monthly Use per Unit (Gallons)	4,167	4,167	4,167	4,167	4,167	4,167
102	Total Projected Consumption (000s)	4,450	4,450	4,450	4,450	4,450	4,450
City							
103	Annual Average Units	3	3	3	3	3	3
104	Average Growth in Accounts	N/A	0	0	0	0	0
105	Annual Average Accounts	3	3	3	3	3	3
106	Average Monthly Use per Account (Gallons)	56	56	56	56	56	56
107	Average Monthly Use per Unit (Gallons)	56	56	56	56	56	56
108	Total Projected Consumption (000s)	2	2	2	2	2	2
Total Fireline Service							
109	Annual Average Units	166	166	166	166	166	166
110	Average Growth in Accounts	N/A	0	0	0	0	0
111	Annual Average Accounts	166	166	166	166	166	166
112	Average Monthly Use per Account (Gallons)	6,580	6,580	6,580	6,580	6,580	6,580
113	Average Monthly Use per Unit (Gallons)	6,580	6,580	6,580	6,580	6,580	6,580
114	Total Projected Consumption (000s)	13,107	13,107	13,107	13,107	13,107	13,107
TOTAL WATER SYSTEM							
115	Annual Average Units	31,466	31,539	32,066	32,605	33,094	33,762
116	Average Growth in Accounts	N/A	61	442	452	410	560
117	Annual Average Accounts	6,861	6,922	7,364	7,816	8,226	8,786
118	Average Monthly Use per Account (Gallons)	25,938	25,756	24,525	23,411	22,506	21,406
119	Average Monthly Use per Unit (Gallons)	5,656	5,653	5,632	5,612	5,594	5,571
120	Total Projected Consumption (000s)	2,135,528	2,139,375	2,167,246	2,195,749	2,221,603	2,256,915

Footnotes:

[1] Amounts based on detailed water billing statistics as provided by the City, which were reconciled against the actual revenues for the period.

**Table 1-2
City of Hallandale Beach, Florida
Utility Rate Study**

Summary of Projected Wastewater Customer Growth and Billing Determinants

Line No.	Description	Historical [1]	Projected Fiscal Year Ending September 30,				
		2017	2018	2019	2020	2021	2022
WASTEWATER SYSTEM							
<u>Wastewater Service</u>							
Single Family							
1	Annual Average Units	4,934	5,003	5,504	6,016	6,481	7,115
2	Average Growth in Accounts	N/A	58	420	429	390	532
3	Annual Average Accounts	4,110	4,168	4,588	5,017	5,407	5,939
4	Average Monthly Use per Account (Gallo:	5,836	5,828	5,776	5,731	5,697	5,657
5	Average Monthly Use per Unit (Gallons)	4,861	4,855	4,814	4,780	4,753	4,722
6	Total Projected Consumption (000s)	287,834	291,489	317,969	345,049	369,613	403,163
Multi-Family							
7	Annual Average Units	22,776	22,776	22,776	22,776	22,776	22,776
8	Average Growth in Accounts	N/A	0	0	0	0	0
9	Annual Average Accounts	1,010	1,010	1,010	1,010	1,010	1,010
10	Average Monthly Use per Account (Gallo:	81,359	81,359	81,359	81,359	81,359	81,359
11	Average Monthly Use per Unit (Gallons)	3,608	3,608	3,608	3,608	3,608	3,608
12	Total Projected Consumption (000s)	986,068	986,068	986,068	986,068	986,068	986,068
Commercial							
13	Annual Average Units	2,385	2,385	2,385	2,385	2,385	2,385
14	Average Growth in Accounts	N/A	0	0	0	0	0
15	Annual Average Accounts	735	735	735	735	735	735
16	Average Monthly Use per Account (Gallo:	37,939	37,939	37,939	37,939	37,939	37,939
17	Average Monthly Use per Unit (Gallons)	11,692	11,692	11,692	11,692	11,692	11,692
18	Total Projected Consumption (000s)	334,621	334,621	334,621	334,621	334,621	334,621
City							
19	Annual Average Units	30	30	30	30	30	30
20	Average Growth in Accounts	N/A	0	0	0	0	0
21	Annual Average Accounts	29	29	29	29	29	29
22	Average Monthly Use per Account (Gallo:	30,793	30,793	30,793	30,793	30,793	30,793
23	Average Monthly Use per Unit (Gallons)	29,767	29,767	29,767	29,767	29,767	29,767
24	Total Projected Consumption (000s)	10,716	10,716	10,716	10,716	10,716	10,716
Total Wastewater Service							
25	Annual Average Units	30,125	30,194	30,695	31,207	31,672	32,306
26	Average Growth in Accounts	N/A	58	420	429	390	532
27	Annual Average Accounts	5,884	5,942	6,362	6,791	7,181	7,713
28	Average Monthly Use per Account (Gallo:	22,933	22,760	21,605	20,571	19,740	18,741
29	Average Monthly Use per Unit (Gallons)	4,479	4,479	4,478	4,477	4,476	4,474
30	Total Projected Consumption (000s)	1,619,239	1,622,894	1,649,374	1,676,454	1,701,018	1,734,568

Footnotes:

[1] Amounts based on 98.5% of the detailed water billing statistics as provided by the City, which were reconciled against the actual wastewater revenues for the period.

Table 1-3
City of Hallandale Beach
Water and Wastewater Utility Rate Study

Projected Water Revenues at Existing Rates

Line No.	Description	Historical [1]	Projected Fiscal Year Ending September 30,				
		2017	2018	2019	2020	2021	2022
WATER SYSTEM							
<u>Water Service</u>							
1	Single Family	\$1,521,332	\$1,604,078	\$1,764,707	\$1,928,988	\$2,078,024	\$2,281,609
2	Multi-Family	6,384,813	6,638,233	6,638,233	6,638,233	6,638,233	6,638,233
3	Commercial	1,227,749	1,277,080	1,277,080	1,277,080	1,277,080	1,277,080
	City	30,877	32,126	32,126	32,126	32,126	32,126
4	Total Water Service	\$9,164,771	\$9,551,518	\$9,712,147	\$9,876,428	\$10,025,464	\$10,229,048
<u>Sprinkler Service (Irrigation)</u>							
5	Single Family	\$160,222	\$166,656	\$166,656	\$166,656	\$166,656	\$166,656
6	Multi-Family	265,815	276,169	276,169	276,169	276,169	276,169
7	Commercial	169,361	176,183	176,183	176,183	176,183	176,183
	City	54,303	56,510	56,510	56,510	56,510	56,510
8	Total Sprinkler Service	\$649,701	\$675,517	\$675,517	\$675,517	\$675,517	\$675,517
<u>Cooling Tower Service</u>							
9	Single Family	\$0	\$0	\$0	\$0	\$0	\$0
10	Multi-Family	136,759	142,098	142,098	142,098	142,098	142,098
11	Commercial	21,045	21,884	21,884	21,884	21,884	21,884
12	Total Cooling Tower Service	\$157,804	\$163,981	\$163,981	\$163,981	\$163,981	\$163,981
13	Total Pool Service	\$20,790	\$21,614	\$21,614	\$21,614	\$21,614	\$21,614
<u>Fireline Service</u>							
14	Single Family	\$15,672	\$16,308	\$16,308	\$16,308	\$16,308	\$16,308
15	Multi-Family	21,031	21,877	21,877	21,877	21,877	21,877
16	Commercial	29,834	31,032	31,032	31,032	31,032	31,032
17	City	686	714	714	714	714	714
18	Total Water Service	\$67,223	\$69,930	\$69,930	\$69,930	\$69,930	\$69,930
19	SUB-TOTAL WATER SYSTEM	\$10,060,289	\$10,482,561	\$10,643,189	\$10,807,470	\$10,956,507	\$11,160,091
20	ADJUSTMENT TO REVENUE: -1.45%	(\$145,420)	(\$151,524)	(\$153,846)	(\$156,220)	(\$158,375)	(\$161,317)
21	TOTAL WATER REVENUES	\$9,914,869	\$10,331,037	\$10,489,344	\$10,651,250	\$10,798,132	\$10,998,774

Footnotes:

[1] Amounts based on detailed water billing statistics as provided by the City, which were reconciled against the actual revenues for the period.

Table 1-4
City of Hallandale Beach, Florida
Utility Rate Study

Projected Wastewater Revenues at Existing Rates

Line No.	Description	Historical [1]	Projected Fiscal Year Ending September 30,				
		2017	2018	2019	2020	2021	2022
WASTEWATER SYSTEM							
Wastewater Service							
1	Single Family	\$2,063,122	\$2,434,958	\$2,666,023	\$2,902,235	\$3,116,636	\$3,409,209
2	Multi-Family	8,158,526	9,502,515	9,502,515	9,502,515	9,502,515	9,502,515
3	Commercial	1,853,846	2,159,094	2,159,094	2,159,094	2,159,094	2,159,094
4	City	51,420	59,876	59,876	59,876	59,876	59,876
5	SUB-TOTAL WASTEWATER SYSTEM	<u>\$12,126,914</u>	<u>\$14,156,442</u>	<u>\$14,387,507</u>	<u>\$14,623,720</u>	<u>\$14,838,120</u>	<u>\$15,130,694</u>
6	ADJUSTMENT TO REVENUE: 0.02%	\$2,445	\$0	\$0	\$0	\$0	\$0
7	TOTAL WASTEWATER REVENUES	<u>\$12,129,359</u>	<u>\$14,156,442</u>	<u>\$14,387,507</u>	<u>\$14,623,720</u>	<u>\$14,838,120</u>	<u>\$15,130,694</u>

Footnotes:

[1] Amounts based on approximately 98.5% of the detailed water billing statistics as provided by the City, which were reconciled against the actual wastewater revenues for the period.

Table 1-5
City of Hallandale Beach, Florida
Utility Rate Study

Projected Other Operating Revenues

Line No.	Description	Adjusted [1] 2018	Escalation Reference	Fiscal Year Ending September 30,			
				2019	2020	2021	2022
Water System							
<u>Other Revenues</u>							
1	Grease Trap Inspections	\$0	Constant	\$0	\$0	\$0	\$0
2	Connection Charges	65,000	WCustGrowth	470,984	481,639	436,885	596,721
3	Water Service Penalties	86,360	Constant	86,360	86,360	86,360	86,360
4	Service Charges	66,000	Constant	66,000	66,000	66,000	66,000
5	Fire Line Rental	22,903	Constant	22,903	22,903	22,903	22,903
6	Fire Line Inspection Fee	12,952	Constant	12,952	12,952	12,952	12,952
7	Service Charges - Misc.	550	Constant	550	550	550	550
8	Sewer Service Penalties	0	Constant	0	0	0	0
9	Admin Charge - CRA Fund	117,045	Constant	117,045	117,045	117,045	117,045
10	Admin Charge - Sanitation Fund	143,187	Constant	143,187	143,187	143,187	143,187
11	Admin Charge - Cemetery Fund	12,070	Constant	12,070	12,070	12,070	12,070
12	Admin Charge - Stormwater	406,837	Personnel	419,042	431,613	444,562	457,899
13	FDEP	0	Constant	0	0	0	0
14	Interest Income - Main Pool	0	Eliminate	0	0	0	0
15	Interest Income - Investments	0	Eliminate	0	0	0	0
16	Realized Gain/Loss	0	Eliminate	0	0	0	0
17	Unrealized Gain/Loss	0	Eliminate	0	0	0	0
18	Sale of Broken Meters	0	Eliminate	0	0	0	0
19	Other Miscellaneous Revenue - MIT SSI Phase X	0	Constant	0	0	0	0
20	Prior Year Revenue Adjustment	0	Eliminate	0	0	0	0
21	Miscellaneous Revenue - Other	0	Constant	0	0	0	0
22	Appropriations from Unappropriated Surplus - O&M	0	Eliminate	0	0	0	0
23	Reappropriation of Fund Balance	0	Eliminate	0	0	0	0
24	Gain on Bond Refunding	0	Eliminate	0	0	0	0
25	Sale of Fixed Assets	0	Eliminate	0	0	0	0
26	Gain / Loss on Asset Disposal	0	Eliminate	0	0	0	0
27	Accrued Guaranteed Revenue Charge - Residential	0	Eliminate	0	0	0	0
28	Wastewater Facility Charge	0	Eliminate	0	0	0	0
29	Total Water System Other Revenues	\$932,904		\$1,351,093	\$1,374,320	\$1,342,514	\$1,515,687
				\$9	\$11	\$13	\$15
Wastewater System							
<u>Other Revenues</u>							
30	Grease Trap Inspections	\$9,750	Constant	\$9,750	\$9,750	\$9,750	\$9,750
31	Connection Charges	0	SCustGrowth	0	0	0	0
32	Water Service Penalties	0	Constant	0	0	0	0
33	Service Charges	0	Constant	0	0	0	0
34	Fire Line Rental	0	Constant	0	0	0	0
35	Fire Line Inspection Fee	0	Constant	0	0	0	0
36	Service Charges - Misc.	0	Constant	0	0	0	0
37	Sewer Service Penalties	106,680	Constant	106,680	106,680	106,680	106,680
38	Admin Charge - CRA Fund	0	Constant	0	0	0	0
39	Admin Charge - Sanitation Fund	0	Constant	0	0	0	0
40	Admin Charge - Cemetery Fund	0	Constant	0	0	0	0
41	Admin Charge - Stormwater	0	Constant	0	0	0	0
42	FDEP	0	Constant	0	0	0	0
43	Interest Income - Main Pool	0	Eliminate	0	0	0	0
44	Interest Income - Investments	0	Eliminate	0	0	0	0
45	Realized Gain/Loss	0	Eliminate	0	0	0	0
46	Unrealized Gain/Loss	0	Eliminate	0	0	0	0
47	Sale of Broken Meters	0	Eliminate	0	0	0	0
48	Other Miscellaneous Revenue - MIT SSI Phase X	0	Constant	0	0	0	0
49	Prior Year Revenue Adjustment	0	Eliminate	0	0	0	0
50	Miscellaneous Revenue - Other	0	Constant	0	0	0	0
51	Appropriations from Unappropriated Surplus - O&M	0	Eliminate	0	0	0	0
52	Reappropriation of Fund Balance	0	Eliminate	0	0	0	0
53	Gain on Bond Refunding	0	Eliminate	0	0	0	0
54	Sale of Fixed Assets	0	Eliminate	0	0	0	0

Table 1-5
City of Hallandale Beach, Florida
Utility Rate Study

Projected Other Operating Revenues

Line No.	Description	Adjusted [1] 2018	Escalation Reference	Fiscal Year Ending September 30,			
				2019	2020	2021	2022
55	Gain / Loss on Asset Disposal	0	Eliminate	0	0	0	0
56	Accrued Guaranteed Revenue Charge - Residential	0	Eliminate	0	0	0	0
57	Wastewater Facility Charge	0	Eliminate	0	0	0	0
58	Total Wastewater System Other Revenues	<u>\$116,430</u>		<u>\$116,430</u>	<u>\$116,430</u>	<u>\$116,430</u>	<u>\$116,430</u>
59	Total System Other Revenues	<u><u>\$1,049,334</u></u>		<u><u>\$1,467,523</u></u>	<u><u>\$1,490,750</u></u>	<u><u>\$1,458,944</u></u>	<u><u>\$1,632,117</u></u>

Footnotes:

- [1] Values for FY 2018 derived from the adopted Fiscal Year 2018 Budget as provided by the City and adjusted to reflect regular recurring revenues. Interest income was adjusted off and is accounted for in the revenue requirements section of the analysis.

Table 1-6
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water and Wastewater Impact Fee Revenues

Line No.	Description	Historical 2017	Projected Fiscal Year Ending September 30, [1]				2022
			2018	2019	2020	2021	
WATER SYSTEM							
1	Impact Fee Per ERU [2]	\$1,318	\$1,318	\$1,364	\$1,364	\$1,364	\$1,364
2	Projected New ERU's	57.1	73.0	527.0	539.0	489.0	668.0
3	Subtotal	\$75,208	\$96,214	\$718,828	\$735,196	\$666,996	\$911,152
4	Percent Prepaid	0.00%	25.00%	25.00%	25.00%	25.00%	25.00%
5	Amount Prepaid	0	(24,054)	(179,707)	(183,799)	(166,749)	(227,788)
6	Other Adjustments to 2018 Budget	\$0	\$10,344	\$0	\$0	\$0	\$0
7	Total Water System	\$75,208	\$82,504	\$539,121	\$551,397	\$500,247	\$683,364
WASTEWATER SYSTEM							
8	Impact Fee Per ERU [2]	\$1,672	\$1,672	\$1,969	\$1,969	\$1,969	\$1,969
9	Projected New ERU's	54.8	69.0	501.0	512.0	465.0	634.0
10	Subtotal	\$91,604	\$115,368	\$986,469	\$1,008,128	\$915,585	\$1,248,346
11	Percent Prepaid	0.00%	25.00%	25.00%	25.00%	25.00%	25.00%
12	Amount Prepaid	0	(28,842)	(246,617)	(252,032)	(228,896)	(312,087)
13	Other Adjustments to 2018 Budget	\$0	\$18,138	\$0	\$0	\$0	\$0
14	Total Wastewater System	\$91,604	\$104,664	\$739,852	\$756,096	\$686,689	\$936,260
15	TOTAL SYSTEM	<u>\$166,812</u>	<u>\$187,168</u>	<u>\$1,278,973</u>	<u>\$1,307,493</u>	<u>\$1,186,936</u>	<u>\$1,619,624</u>

Footnotes:

[1] Projected new development based upon information provided by staff.

[2] Impact fee in 2019 based on adoption of proposed rate.

Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
	3310W		Water Administration					
			<u>Personnel Costs</u>					
1	3310W	512000	Regular Salaries and Wages	\$796,036	\$0	\$796,036	\$0	\$796,036
2	3310W	514000	Overtime Pay	6,000	0	6,000	0	6,000
3	3310W	515150	Auto and Travel Allowances	4,200	0	4,200	0	4,200
4	3310W	515250	Payouts - Civil Service	0	0	0	0	0
5	3310W	515300	Payouts - Sick Leave	0	0	0	0	0
6	3310W	515350	Payouts - Vacation Pay	0	0	0	0	0
7	3310W	521050	Social Security	47,418	0	47,418	0	47,418
8	3310W	521100	Medicare	11,286	0	11,286	0	11,286
9	3310W	522150	Pensions - General Employees	75,949	0	75,949	0	75,949
10	3310W	522200	Pensions - ICMA 401a	71,871	0	71,871	0	71,871
11	3310W	522250	Pensions - OPEB	0	0	0	41,453	41,453
12	3310W	522300	401a Match Program	23,767	0	23,767	0	23,767
13	3310W	522350	Pensions - Retirement Health	9,806	0	9,806	0	9,806
14	3310W	523050	Health Insurance	135,191	0	135,191	0	135,191
15	3310W	523100	Dental Insurance	3,862	0	3,862	0	3,862
16	3310W	523150	Life Insurance	885	0	885	0	885
17	3310W	523200	Long-term Disability Insurance	783	0	783	0	783
18	3310W	524000	Workers' Compensation	2,418	0	2,418	0	2,418
19			Total Personnel Costs	\$1,189,472	\$0	\$1,189,472	\$41,453	\$1,230,925
			<u>Operating Services</u>					
20	3310W	531010	Professional Services	\$35,000	\$0	\$35,000	\$0	\$35,000
21	3310W	531010	Professional Services	0	0	0	0	0
22	3310W	534010	Outside Services	15,000	0	15,000	0	15,000
23	3310W	534010	Outside Services	0	0	0	0	0
24	3310W	534040	Special Events	0	0	0	0	0
25	3310W	541010	Phone and Communications	5,208	0	5,208	0	5,208
26	3310W	544010	Uniforms	0	0	0	0	0
27	3310W	546090	Office Equipment	2,000	0	2,000	0	2,000
28	3310W	551000	Office Supplies	4,000	0	4,000	0	4,000
29	3310W	552050	Medical Supplies	300	0	300	0	300
30	3310W	552150	Motor Vehicle Fuel	2,800	0	2,800	0	2,800
31	3310W	552170	Computer Equipment and Supplies	1,200	0	1,200	0	1,200
32	3310W	552200	Uniforms / Protective Clothing	1,460	0	1,460	0	1,460
33	3310W	552300	Drafting Supplies	1,500	0	1,500	0	1,500
34	3310W	554010	Books and Publications	0	0	0	0	0
35	3310W	554030	Dues and Memberships	2,159	0	2,159	0	2,159
36	3310W	555020	Meetings and Seminars	13,200	0	13,200	0	13,200
37	3310W	555040	General Employee Training	2,490	0	2,490	0	2,490
38	3310W	555060	License and Certification	450	0	450	0	450
39	3310W	564010	Automobiles [2]	0	0	0	0	0
40			Total Operating Services	\$86,767	\$0	\$86,767	\$0	\$86,767
41			Total Water Administration	\$1,276,239	\$0	\$1,276,239	\$41,453	\$1,317,692
	3320W		Water Production					
			<u>Personnel Costs</u>					
42	3320W	512000	Regular Salaries and Wages	\$810,490	\$0	\$810,490	\$0	\$810,490
43	3320W	513050	Relief Employees	30,000	0	30,000	0	30,000
44	3320W	514000	Overtime Pay	45,000	0	45,000	0	45,000
45	3320W	515150	Auto and Travel Allowances	0	0	0	0	0
46	3320W	515250	Payouts - Civil Service	0	0	0	0	0
47	3320W	515300	Payouts - Sick Leave	0	0	0	0	0
48	3320W	515350	Payouts - Vacation Pay	0	0	0	0	0
49	3320W	521050	Social Security	48,547	0	48,547	0	48,547
50	3320W	521100	Medicare	11,358	0	11,358	0	11,358
51	3320W	522150	Pensions - General Employees	115,191	0	115,191	0	115,191
52	3320W	522200	Pensions - ICMA 401a	32,959	0	32,959	0	32,959
53	3320W	522250	Pensions - OPEB	0	0	0	0	0
54	3320W	522300	401a Match Program	18,271	0	18,271	0	18,271
55	3320W	522350	Pensions - Retirement Health	11,808	0	11,808	0	11,808
56	3320W	523050	Health Insurance	122,947	0	122,947	0	122,947
57	3320W	523100	Dental Insurance	558	0	558	0	558
58	3320W	523150	Life Insurance	1,069	0	1,069	0	1,069

**Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
59	3320W	523200	Long-term Disability Insurance	946	0	946	0	946
60	3320W	524000	Workers' Compensation	4,109	0	4,109	0	4,109
61			Total Personnel Costs	\$1,253,253	\$0	\$1,253,253	\$0	\$1,253,253
			<u>Operating Services</u>					
62	3320W	531010	Professional Services	\$130,000	\$0	\$130,000	\$0	\$130,000
63	3320W	531010	Professional Services	0	0	0	0	0
64	3320W	531010	Professional Services [2]	300,000	0	300,000	(300,000)	0
65	3320W	534010	Outside Services	64,000	0	64,000	0	64,000
66	3320W	534010	Outside Services	0	0	0	0	0
67	3320W	534010	Outside Services	0	0	0	0	0
68	3320W	534040	Special Events	0	0	0	0	0
69	3320W	541010	Phone and Communications	420	0	420	0	420
70	3320W	543010	Electricity	275,000	0	275,000	0	275,000
71	3320W	544010	Uniforms	3,454	0	3,454	0	3,454
72	3320W	544030	Equipment Rental	600	0	600	0	600
73	3320W	546070	Equipment Maintenance Agreements	146,500	0	146,500	0	146,500
74	3320W	546090	Office Equipment	0	0	0	0	0
75	3320W	551000	Office Supplies	0	0	0	0	0
76	3320W	552010	Specialized Supplies	9,600	0	9,600	0	9,600
77	3320W	552030	Equipment and Tools	4,100	0	4,100	0	4,100
78	3320W	552050	Medical Supplies	0	0	0	0	0
79	3320W	552060	Chemicals	471,000	0	471,000	0	471,000
80	3320W	552070	Small Furniture and Fixtures	0	0	0	0	0
81	3320W	552140	Diesel Fuel	6,000	0	6,000	0	6,000
82	3320W	552150	Motor Vehicle Fuel	800	0	800	0	800
83	3320W	552160	Grease, Oil, and Lubricants	100	0	100	0	100
84	3320W	552170	Computer Equipment and Supplies	0	0	0	0	0
85	3320W	552200	Uniforms / Protective Clothing	3,160	0	3,160	0	3,160
86	3320W	552250	Machinery Parts	136,200	0	136,200	0	136,200
87	3320W	552280	Purchased Water	374,050	0	374,050	0	374,050
88	3320W	552300	Drafting Supplies	0	0	0	0	0
89	3320W	554010	Books and Publications	0	0	0	0	0
90	3320W	554030	Dues and Memberships	840	0	840	0	840
91	3320W	555020	Meetings and Seminars	0	0	0	0	0
92	3320W	555040	General Employee Training	3,600	0	3,600	0	3,600
93	3320W	555060	License and Certification	11,369	0	11,369	0	11,369
94	3320W	555060	License and Certification [2]	0	0	0	0	0
95	3320W	564040	Machinery and Equipment [2]	0	0	0	0	0
96	3320W	565000	Construction in Progress [2]	0	0	0	0	0
97	3320W	565000	Construction in Progress [2]	1,350,000	0	1,350,000	(1,350,000)	0
98			Total Operating Services	\$3,290,793	\$0	\$3,290,793	(\$1,650,000)	\$1,640,793
99			Total Water Production	\$4,544,046	\$0	\$4,544,046	(\$1,650,000)	\$2,894,046
	3330W		<u>Transmission and Distribution</u>					
			<u>Personnel Costs</u>					
100	3330W	512000	Regular Salaries and Wages	\$692,354	\$0	\$692,354	\$0	\$692,354
101	3330W	513000	Other Salaries and Wages	\$33,280	0	33,280	0	33,280
102	3330W	514000	Overtime Pay	42,000	0	42,000	0	42,000
103	3330W	515150	Auto and Travel Allowances	0	0	0	0	0
104	3330W	515250	Payouts - Civil Service	0	0	0	0	0
105	3330W	515300	Payouts - Sick Leave	0	0	0	0	0
106	3330W	515350	Payouts - Vacation Pay	0	0	0	0	0
107	3330W	521050	Social Security	42,683	0	42,683	0	42,683
108	3330W	521100	Medicare	9,987	0	9,987	0	9,987
109	3330W	522150	Pensions - General Employees	115,556	0	115,556	0	115,556
110	3330W	522200	Pensions - ICMA 401a	19,478	0	19,478	0	19,478
111	3330W	522250	Pensions - OPEB	0	0	0	0	0
112	3330W	522300	401a Match Program	17,746	0	17,746	0	17,746
113	3330W	522350	Pensions - Retirement Health	11,520	0	11,520	0	11,520
114	3330W	523050	Health Insurance	142,433	0	142,433	0	142,433
115	3330W	523100	Dental Insurance	1,482	0	1,482	0	1,482
116	3330W	523150	Life Insurance	1,044	0	1,044	0	1,044
117	3330W	523200	Long-term Disability Insurance	924	0	924	0	924
118	3330W	524000	Workers' Compensation	5,182	0	5,182	0	5,182

**Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
119			Total Personnel Costs	\$1,135,669	\$0	\$1,135,669	\$0	\$1,135,669
			<u>Operating Services</u>					
120	3330W	531010	Professional Services	\$0	\$0	\$0	\$0	\$0
121	3330W	531010	Professional Services [2]	0	0	0	0	0
122	3330W	531010	Professional Services [2]	0	0	0	0	0
123	3330W	534010	Outside Services	22,400	0	22,400	0	22,400
124	3330W	534010	Outside Services [2]	0	0	0	0	0
125	3330W	534010	Outside Services [2]	0	0	0	0	0
126	3330W	534040	Special Events	0	0	0	0	0
127	3330W	541010	Phone and Communications	1,680	0	1,680	0	1,680
128	3330W	543010	Electricity	0	0	0	0	0
129	3330W	544010	Uniforms	3,966	0	3,966	0	3,966
130	3330W	544030	Equipment Rental	500	0	500	0	500
131	3330W	546070	Equipment Maintenance Agreements	4,000	0	4,000	0	4,000
132	3330W	546090	Office Equipment	0	0	0	0	0
133	3330W	547000	Printing and Binding	150	0	150	0	150
134	3330W	551000	Office Supplies	0	0	0	0	0
135	3330W	552010	Specialized Supplies	0	0	0	0	0
136	3330W	552020	Meter Boxes	9,000	0	9,000	0	9,000
137	3330W	552030	Equipment and Tools	6,000	0	6,000	0	6,000
138	3330W	552050	Medical Supplies	0	0	0	0	0
139	3330W	552060	Chemicals	0	0	0	0	0
140	3330W	552070	Small Furniture and Fixtures	0	0	0	0	0
141	3330W	552080	Traffic Control / Signs	3,000	0	3,000	0	3,000
142	3330W	552140	Diesel Fuel	7,020	0	7,020	0	7,020
143	3330W	552150	Motor Vehicle Fuel	11,136	0	11,136	0	11,136
144	3330W	552160	Grease, Oil, and Lubricants	0	0	0	0	0
145	3330W	552170	Computer Equipment and Supplies	0	0	0	0	0
146	3330W	552180	Water Main Repair Parts	88,000	0	88,000	0	88,000
147	3330W	552200	Uniforms / Protective Clothing	3,400	0	3,400	0	3,400
148	3330W	552210	Building Materials / Supplies	4,000	0	4,000	0	4,000
149	3330W	552250	Machinery Parts	1,500	0	1,500	0	1,500
150	3330W	552280	Purchased Water	0	0	0	0	0
151	3330W	552290	Cement	5,000	0	5,000	0	5,000
152	3330W	553010	Rock and Fill	10,000	0	10,000	0	10,000
153	3330W	553010	Rock and Fill [2]	0	0	0	0	0
154	3330W	553020	Asphalt Paving Road Materials	15,000	0	15,000	0	15,000
155	3330W	552300	Drafting Supplies	0	0	0	0	0
156	3330W	554010	Books and Publications	0	0	0	0	0
157	3330W	554030	Dues and Memberships	0	0	0	0	0
158	3330W	555020	Meetings and Seminars	0	0	0	0	0
159	3330W	555040	General Employee Training	5,350	0	5,350	0	5,350
160	3330W	555060	License and Certification	600	0	600	0	600
161	3330W	555060	License and Certification [2]	0	0	0	0	0
162	3330W	564060	Communications Equipment [2]	0	0	0	0	0
163	3330W	565000	Construction in Progress [2]	0	0	0	0	0
164			Total Operating Services	\$201,702	\$0	\$201,702	\$0	\$201,702
165			Total Transmission and Distribution	\$1,337,371	\$0	\$1,337,371	\$0	\$1,337,371
	3340W		Utility Billing Division					
			<u>Personnel Costs</u>					
166	3340W	512000	Regular Salaries and Wages	\$421,813	\$0	\$421,813	\$0	\$421,813
167	3340W	513050	Other Salaries and Wages	31,980	0	31,980	0	31,980
168	3340W	514000	Overtime Pay	10,000	0	10,000	0	10,000
169	3340W	515150	Auto and Travel Allowances	0	0	0	0	0
170	3340W	515250	Payouts - Civil Service	0	0	0	0	0
171	3340W	515300	Payouts - Sick Leave	0	0	0	0	0
172	3340W	515350	Payouts - Vacation Pay	0	0	0	0	0
173	3340W	521050	Social Security	27,443	0	27,443	0	27,443
174	3340W	521100	Medicare	6,421	0	6,421	0	6,421
175	3340W	522150	Pensions - General Employees	22,830	0	22,830	0	22,830
176	3340W	522200	Pensions - ICMA 401a	30,425	0	30,425	0	30,425
177	3340W	522250	Pensions - OPEB	0	0	0	0	0
178	3340W	522300	401a Match Program	10,620	0	10,620	0	10,620

Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
179	3340W	522350	Pensions - Retirement Health	6,720	0	6,720	0	6,720
180	3340W	523050	Health Insurance	64,795	0	64,795	0	64,795
181	3340W	523100	Dental Insurance	1,982	0	1,982	0	1,982
182	3340W	523150	Life Insurance	609	0	609	0	609
183	3340W	523200	Long-term Disability Insurance	539	0	539	0	539
184	3340W	524000	Workers' Compensation	684	0	684	0	684
185			Total Personnel Costs	\$636,861	\$0	\$636,861	\$0	\$636,861
			<u>Operating Services</u>					
186	3340W	531010	Professional Services	\$0	\$0	\$0	\$0	\$0
187	3340W	531050	Filing and Lien Recording Fees	3,000	0	3,000	0	3,000
188	3340W	534010	Outside Services	31,700	0	31,700	0	31,700
189	3340W	534010	Outside Services [2]	0	0	0	0	0
190	3340W	534010	Outside Services [2]	0	0	0	0	0
191	3340W	534040	Special Events	0	0	0	0	0
192	3340W	539055	Credit Card Fees	98,000	0	98,000	0	98,000
193	3340W	541010	Phone and Communications	0	0	0	0	0
194	3340W	542000	Postage and Freight	61,000	0	61,000	0	61,000
195	3340W	543010	Electricity	0	0	0	0	0
196	3340W	544010	Uniforms	0	0	0	0	0
197	3340W	544030	Equipment Rental	0	0	0	0	0
198	3340W	546050	Computer Hardware Maintenance	0	0	0	0	0
199	3340W	546060	Computer Software Maintenance	0	0	0	0	0
200	3340W	546070	Equipment Maintenance Agreements	0	0	0	0	0
201	3340W	546090	Office Equipment	750	0	750	0	750
202	3340W	547000	Printing and Binding	500	0	500	0	500
203	3340W	551000	Office Supplies	4,000	0	4,000	0	4,000
204	3340W	552010	Specialized Supplies	0	0	0	0	0
205	3340W	552020	Meter Boxes	0	0	0	0	0
206	3340W	552030	Equipment and Tools	0	0	0	0	0
207	3340W	552050	Medical Supplies	0	0	0	0	0
208	3340W	552060	Chemicals	0	0	0	0	0
209	3340W	552070	Small Furniture and Fixtures	1,000	0	1,000	0	1,000
210	3340W	552070	Small Furniture and Fixtures [2]	0	0	0	0	0
211	3340W	552080	Traffic Control / Signs	0	0	0	0	0
212	3340W	552140	Diesel Fuel	0	0	0	0	0
213	3340W	552150	Motor Vehicle Fuel	0	0	0	0	0
214	3340W	552160	Grease, Oil, and Lubricants	0	0	0	0	0
215	3340W	552170	Computer Equipment and Supplies	0	0	0	0	0
216	3340W	552180	Water Main Repair Parts	0	0	0	0	0
217	3340W	552200	Uniforms / Protective Clothing	1,000	0	1,000	0	1,000
218	3340W	552210	Building Materials / Supplies	0	0	0	0	0
219	3340W	552250	Machinery Parts	0	0	0	0	0
220	3340W	552280	Purchased Water	0	0	0	0	0
221	3340W	552290	Cement	0	0	0	0	0
222	3340W	553010	Rock and Fill	0	0	0	0	0
223	3340W	553020	Asphalt Paving Road Materials	0	0	0	0	0
224	3340W	552300	Drafting Supplies	0	0	0	0	0
225	3340W	554010	Books and Publications	0	0	0	0	0
226	3340W	554030	Dues and Memberships	1,440	0	1,440	0	1,440
227	3340W	555020	Meetings and Seminars	12,400	0	12,400	0	12,400
228	3340W	555040	General Employee Training	0	0	0	0	0
229	3340W	555060	License and Certification	210	0	210	0	210
230	3340W	564040	Machinery and Equipment [2]	10,000	0	10,000	(10,000)	0
231	3340W	564040	Machinery and Equipment [2]	0	0	0	0	0
232			Total Operating Services	\$225,000	\$0	\$225,000	(\$10,000)	\$215,000
233			Total Utility Billing Division	\$861,861	\$0	\$861,861	(\$10,000)	\$851,861
	3370W		Plant Maintenance					
			<u>Personnel Costs</u>					
234	3370W	512000	Regular Salaries and Wages	\$145,029	\$0	\$145,029	\$0	\$145,029
235	3370W	513050	Other Salaries and Wages	0	0	0	0	0
236	3370W	514000	Overtime Pay	6,000	0	6,000	0	6,000
237	3370W	515150	Auto and Travel Allowances	0	0	0	0	0
238	3370W	515250	Payouts - Civil Service	0	0	0	0	0

**Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
239	3370W	515300	Payouts - Sick Leave	0	0	0	0	0
240	3370W	515350	Payouts - Vacation Pay	0	0	0	0	0
241	3370W	515400	Tool Allowance	0	0	0	0	0
242	3370W	521050	Social Security	8,359	0	8,359	0	8,359
243	3370W	521100	Medicare	1,957	0	1,957	0	1,957
244	3370W	522150	Pensions - General Employees	22,826	0	22,826	0	22,826
245	3370W	522200	Pensions - ICMA 401a	6,593	0	6,593	0	6,593
246	3370W	522250	Pensions - OPEB	0	0	0	0	0
247	3370W	522300	401a Match Program	2,638	0	2,638	0	2,638
248	3370W	522350	Pensions - Retirement Health	2,880	0	2,880	0	2,880
249	3370W	523050	Health Insurance	44,510	0	44,510	0	44,510
250	3370W	523100	Dental Insurance	180	0	180	0	180
251	3370W	523150	Life Insurance	261	0	261	0	261
252	3370W	523200	Long-term Disability Insurance	231	0	231	0	231
253	3370W	524000	Workers' Compensation	1,217	0	1,217	0	1,217
254			Total Personnel Costs	\$242,681	\$0	\$242,681	\$0	\$242,681
			<u>Operating Services</u>					
255	3370W	531010	Professional Services	\$0	\$0	\$0	\$0	\$0
256	3370W	531050	Filing and Lien Recording Fees	0	0	0	0	0
257	3370W	534010	Outside Services	0	0	0	0	0
258	3370W	534040	Special Events	0	0	0	0	0
259	3370W	539055	Credit Card Fees	0	0	0	0	0
260	3370W	541010	Phone and Communications	0	0	0	0	0
261	3370W	542000	Postage and Freight	0	0	0	0	0
262	3370W	543010	Electricity	0	0	0	0	0
263	3370W	544010	Uniforms	732	0	732	0	732
264	3370W	544030	Equipment Rental	0	0	0	0	0
265	3370W	546050	Computer Hardware Maintenance	0	0	0	0	0
266	3370W	546060	Computer Software Maintenance	0	0	0	0	0
267	3370W	546070	Equipment Maintenance Agreements	0	0	0	0	0
268	3370W	546090	Office Equipment	0	0	0	0	0
269	3370W	547000	Printing and Binding	0	0	0	0	0
270	3370W	551000	Office Supplies	0	0	0	0	0
271	3370W	552010	Specialized Supplies	0	0	0	0	0
272	3370W	552020	Meter Boxes	0	0	0	0	0
273	3370W	552030	Equipment and Tools	600	0	600	0	600
274	3370W	552050	Medical Supplies	0	0	0	0	0
275	3370W	552060	Chemicals	0	0	0	0	0
276	3370W	552070	Small Furniture and Fixtures	0	0	0	0	0
277	3370W	552080	Traffic Control / Signs	0	0	0	0	0
278	3370W	552140	Diesel Fuel	0	0	0	0	0
279	3370W	552150	Motor Vehicle Fuel	720	0	720	0	720
280	3370W	552160	Grease, Oil, and Lubricants	600	0	600	0	600
281	3370W	552170	Computer Equipment and Supplies	0	0	0	0	0
282	3370W	552180	Water Main Repair Parts	0	0	0	0	0
283	3370W	552200	Uniforms / Protective Clothing	930	0	930	0	930
284	3370W	552210	Building Materials / Supplies	9,000	0	9,000	0	9,000
285	3370W	552250	Machinery Parts	1,500	0	1,500	0	1,500
286	3370W	552280	Purchased Water	0	0	0	0	0
287	3370W	552290	Cement	0	0	0	0	0
288	3370W	553010	Rock and Fill	0	0	0	0	0
289	3370W	553020	Asphalt Paving Road Materials	0	0	0	0	0
290	3370W	552300	Drafting Supplies	0	0	0	0	0
291	3370W	554010	Books and Publications	0	0	0	0	0
292	3370W	554030	Dues and Memberships	0	0	0	0	0
293	3370W	555020	Meetings and Seminars	0	0	0	0	0
294	3370W	555040	General Employee Training	3,000	0	3,000	0	3,000
295	3370W	555060	License and Certification	0	0	0	0	0
296	3370W	564040	Machinery and Equipment [2]	50,000	0	50,000	(50,000)	0
297			Total Operating Services	\$67,082	\$0	\$67,082	(\$50,000)	\$17,082
298			Total Plant Maintenance	\$309,763	\$0	\$309,763	(\$50,000)	\$259,763
			<u>Debt Service</u>					
299	3380W	544020	Copiers / Office Equipment Leases [3]	\$8,304	\$0	\$8,304	\$0	\$8,304

Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
300	3380W	571220	Principal - 2012 Chase Note [3]	180,048	0	180,048	(180,048)	0
301	3380W	571225	Principal - Bond Series 2014 [3]	275,478	0	275,478	(275,478)	0
302	3380W	572220	Interest - 2012 Chase Note [3]	12,459	0	12,459	(12,459)	0
303	3380W	572225	Interest - Bond Series 2014 [3]	51,029	0	51,029	(51,029)	0
304			Total Debt Service	\$527,318	\$0	\$527,318	(\$519,014)	\$8,304
	3390W		Non-Departmental					
			<u>Personnel Costs</u>					
305	3390W	512000	Regular Salaries and Wages	\$0	\$0	\$0	\$0	\$0
306	3390W	513050	Other Salaries and Wages	0	0	0	0	0
307	3390W	514000	Overtime Pay	0	0	0	0	0
308	3390W	515150	Auto and Travel Allowances	0	0	0	0	0
309	3390W	515200	Sick Leave Buyback	30,000	0	30,000	0	30,000
310	3390W	515250	Payouts - Civil Service	10,000	0	10,000	0	10,000
311	3390W	515300	Payouts - Sick Leave	20,000	0	20,000	0	20,000
312	3390W	515350	Payouts - Vacation Pay	20,000	0	20,000	0	20,000
313	3390W	515400	Tool Allowance	0	0	0	0	0
314	3390W	515500	Sick Accrual Expense	0	0	0	0	0
315	3390W	515550	Vacation Accrual Expense	0	0	0	0	0
316	3390W	521050	Social Security	0	0	0	0	0
317	3390W	521100	Medicare	0	0	0	0	0
318		522050	Pensions -	0	0	0	0	0
319		522051	Professional GASB68	0	0	0	0	0
320	3390W	522150	Pensions - General Employees	0	0	0	0	0
321		522151	General GASB 68	0	0	0	0	0
322	3390W	522200	Pensions - ICMA 401a	0	0	0	0	0
323	3390W	522250	Pensions - OPEB	0	0	0	0	0
324	3390W	522300	401a Match Program	0	0	0	0	0
325	3390W	522350	Pensions - Retirement Health	0	0	0	0	0
326	3390W	523050	Health Insurance	0	0	0	0	0
327	3390W	523100	Dental Insurance	0	0	0	0	0
328	3390W	523150	Life Insurance	0	0	0	0	0
329	3390W	523200	Long-term Disability Insurance	0	0	0	0	0
330	3390W	524000	Workers' Compensation	0	0	0	0	0
331	3390W	525000	Unemployment Compensation Fee	10,000	0	10,000	0	10,000
332			Total Personnel Costs	\$90,000	\$0	\$90,000	\$0	\$90,000
			<u>Operating Services</u>					
333	3390W	531010	Professional Services	\$135,000	\$0	\$135,000	\$0	\$135,000
334	3390W	531010	Professional Services [2]	0	0	0	0	0
335	3390W	531010	Professional Services [2]	0	0	0	0	0
336	3390W	531010	Professional Services [2]	0	0	0	0	0
337	3390W	531010	Professional Services [2]	0	0	0	0	0
338	3390W	531010	Professional Services [2]	0	0	0	0	0
339	3390W	531010	Professional Services [2]	0	0	0	0	0
340	3390W	531010	Professional Services [2]	0	0	0	0	0
341	3390W	531030	Employee Physicals	1,750	0	1,750	0	1,750
342	3390W	531040	Legal Services	0	0	0	0	0
343	3390W	531050	Filing and Lien Recording Fees	0	0	0	0	0
344	3390W	532000	Accounting and Auditing	37,514	0	37,514	0	37,514
345	3390W	534010	Outside Services	154,500	0	154,500	0	154,500
346	3390W	534010	Outside Services [2]	0	0	0	0	0
347	3390W	534010	Outside Services [2]	0	0	0	0	0
348	3390W	534010	Outside Services [2]	0	0	0	0	0
349	3390W	534010	Outside Services [2]	0	0	0	0	0
350	3390W	534040	Special Events	0	0	0	0	0
351	3390W	539055	Credit Card Fees	0	0	0	0	0
352	3390W	541010	Phone and Communications	0	0	0	0	0
353	3390W	542000	Postage and Freight	12,186	0	12,186	0	12,186
354	3390W	543010	Electricity	0	0	0	0	0
355	3390W	543020	Water and Sewer	60,564	0	60,564	0	60,564
356	3390W	544010	Uniforms	0	0	0	0	0
357	3390W	544030	Equipment Rental	0	0	0	0	0
358	3390W	544070	Lease - Bus / FEC Railroad	3,200	0	3,200	0	3,200
359	3390W	545010	Property Insurance Premium	160,000	0	160,000	0	160,000
360	3390W	546020	Communication Equipment	0	0	0	0	0

**Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
361	3390W	546050	Computer Hardware Maintenance	0	0	0	0	0
362	3390W	546060	Computer Software Maintenance	21,293	0	21,293	0	21,293
363	3390W	546070	Equipment Maintenance Agreements	0	0	0	0	0
364	3390W	546080	Infrastructure Maintenance	0	0	0	0	0
365	3390W	546090	Office Equipment	0	0	0	0	0
366	3390W	547000	Printing and Binding	25,000	0	25,000	0	25,000
367	3390W	548010	Advertising	850	0	850	0	850
368	3390W	549970	Contingencies	0	0	0	0	0
369	3390W	549980	Grant Match Expenditures	0	0	0	0	0
370	3390W	549990	Working Reserves [4]	49,019	0	49,019	(49,019)	0
371	3390W	551000	Office Supplies	0	0	0	0	0
372	3390W	552010	Specialized Supplies	0	0	0	0	0
373	3390W	552020	Meter Boxes	0	0	0	0	0
374	3390W	552030	Equipment and Tools	0	0	0	0	0
375	3390W	552050	Medical Supplies	0	0	0	0	0
376	3390W	552060	Chemicals	0	0	0	0	0
377	3390W	552070	Small Furniture and Fixtures	0	0	0	0	0
378	3390W	552080	Traffic Control / Signs	0	0	0	0	0
379	3390W	552090	Horticultural / Beautification	20,500	0	20,500	0	20,500
380	3390W	552140	Diesel Fuel	0	0	0	0	0
381	3390W	552150	Motor Vehicle Fuel	0	0	0	0	0
382	3390W	552160	Grease, Oil, and Lubricants	0	0	0	0	0
383	3390W	552170	Computer Equipment and Supplies	0	0	0	0	0
384	3390W	552180	Water Main Repair Parts	0	0	0	0	0
385	3390W	552200	Uniforms / Protective Clothing	0	0	0	0	0
386	3390W	552210	Building Materials / Supplies	0	0	0	0	0
387	3390W	552210	Building Materials / Supplies [2]	0	0	0	0	0
388	3390W	552230	CM Project / Program Supplies	0	0	0	0	0
389	3390W	552250	Machinery Parts	0	0	0	0	0
390	3390W	552260	Water Meter / Hydrant Parts	0	0	0	0	0
391	3390W	552270	Hurricane Preparedness	0	0	0	0	0
392	3390W	552280	Purchased Water	0	0	0	0	0
393	3390W	552290	Cement	0	0	0	0	0
394	3390W	552300	Drafting Supplies	0	0	0	0	0
395	3390W	553010	Rock and Fill	0	0	0	0	0
396	3390W	553020	Asphalt Paving Road Materials	0	0	0	0	0
397	3390W	554010	Books and Publications	0	0	0	0	0
398	3390W	554030	Dues and Memberships	0	0	0	0	0
399	3390W	554040	Internet Subscriptions	44,767	0	44,767	0	44,767
400	3390W	554040	Internet Subscriptions [2]	0	0	0	0	0
401	3390W	555010	Computer Training	0	0	0	0	0
402	3390W	555020	Meetings and Seminars	0	0	0	0	0
403	3390W	555030	Tuition Reimbursement	0	0	0	0	0
404	3390W	555040	General Employee Training	20,000	0	20,000	0	20,000
405	3390W	555060	License and Certification	0	0	0	0	0
406	3390W	559010	Depreciation Expense	0	0	0	0	0
407	3390W	564040	Machinery and Equipment [2]	0	0	0	0	0
408	3390W	564040	Machinery and Equipment [2]	0	0	0	0	0
409	3390W	564070	Computer Equipment and Supplies [2]	0	0	0	0	0
410	3390W	565000	Computer Equipment and Supplies [2]	0	0	0	0	0
411	3390W	565000	Computer Equipment and Supplies [2]	0	0	0	0	0
412	3390W	565000	Computer Equipment and Supplies [2]	0	0	0	0	0
413	3390W	565000	Computer Equipment and Supplies [2]	0	0	0	0	0
414	3390W	565000	Computer Equipment and Supplies [2]	0	0	0	0	0
415	3390W	565000	Computer Equipment and Supplies [2]	0	0	0	0	0
416	3390W	565000	Construction in Progress [2]	0	0	0	0	0
417			Total Operating Services	\$746,143	\$0	\$746,143	(\$49,019)	\$697,124
418			Total Non-Departmental	\$836,143	\$0	\$836,143	(\$49,019)	\$787,124
	3395W		Renewal & Replacement					
			<u>Personnel Costs</u>					
419	3395W	512000	Regular Salaries and Wages	\$0	\$0	\$0	\$0	\$0
420	3395W	513050	Other Salaries and Wages	0	0	0	0	0
421	3395W	514000	Overtime Pay	0	0	0	0	0
422	3395W	515150	Auto and Travel Allowances	0	0	0	0	0
423	3395W	515200	Sick Leave Buyback	0	0	0	0	0

**Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
424	3395W	515250	Payouts - Civil Service	0	0	0	0	0
425	3395W	515300	Payouts - Sick Leave	0	0	0	0	0
426	3395W	515350	Payouts - Vacation Pay	0	0	0	0	0
427	3395W	515400	Tool Allowance	0	0	0	0	0
428	3395W	515500	Sick Accrual Expense	0	0	0	0	0
429	3395W	515550	Vacation Accrual Expense	0	0	0	0	0
430	3395W	521050	Social Security	0	0	0	0	0
431	3395W	521100	Medicare	0	0	0	0	0
432	3395W	522150	Pensions - General Employees	0	0	0	0	0
433	3395W	522200	Pensions - ICMA 401a	0	0	0	0	0
434	3395W	522250	Pensions - OPEB	0	0	0	0	0
435	3395W	522300	401a Match Program	0	0	0	0	0
436	3395W	522350	Pensions - Retirement Health	0	0	0	0	0
437	3395W	523050	Health Insurance	0	0	0	0	0
438	3395W	523100	Dental Insurance	0	0	0	0	0
439	3395W	523150	Life Insurance	0	0	0	0	0
440	3395W	523200	Long-term Disability Insurance	0	0	0	0	0
441	3395W	524000	Workers' Compensation	0	0	0	0	0
442	3395W	525000	Unemployment Compensation Fee	0	0	0	0	0
443			Total Personnel Costs	\$0	\$0	\$0	\$0	\$0
			Operating Services					
444	3395W	531010	Professional Services	\$0	\$0	\$0	\$0	\$0
445	3395W	534010	Outside Services	0	0	0	0	0
446	3395W	534010	Outside Services	0	0	0	0	0
447	3395W	534010	Outside Services	0	0	0	0	0
448	3395W	546080	Infrastructure Maintenance	0	0	0	0	0
449	3395W	552260	Water Meter / Hydrant Parts	0	0	0	0	0
450	3395W	559010	Depreciation Expense	0	0	0	0	0
451	3395W	564040	Machinery and Equipment [2]	0	0	0	0	0
452	3395W	565000	Construction in Progress [2]	0	0	0	0	0
453	3395W	565000	Construction in Progress [2]	0	0	0	0	0
454	3395W	565000	Construction in Progress [2]	0	0	0	0	0
455	3395W	565000	Construction in Progress [2]	330,000	0	330,000	(330,000)	0
456	3395W	565000	Construction in Progress [2]	0	0	0	0	0
457			Total Operating Services	\$330,000	\$0	\$330,000	(\$330,000)	\$0
458			Total Renewal & Replacement	\$330,000	\$0	\$330,000	(\$330,000)	\$0
	3396W		Equipment Replacement					
			Operating Services					
459	3396W		Admin Charges to Fleet Services	\$274,844	\$0	\$274,844	\$0	\$274,844
460			Total Operating Services	\$274,844	\$0	\$274,844	\$0	\$274,844
461			Total Equipment Replacement	\$274,844	\$0	\$274,844	\$0	\$274,844
462			Subtotal Water System	\$10,297,585	\$0	\$10,297,585	(\$2,566,580)	\$7,731,005
	8910W		Charges to Other Fund					
463	8910W	549001	Administrative Charge to the General Fund	\$1,308,714	\$0	\$1,308,714	\$0	\$1,308,714
464	8910W	549160	Administrative Charge to the Transportation Fund	12,387	0	12,387	0	12,387
465	8910W	549410	Administrative Charge to the Sanitation Fund	13,824	0	13,824	0	13,824
466	8910W	549440	Administrative Charge to the Stormwater Fund	10,052	0	10,052	0	10,052
467			Total Charges to Other Funds	\$1,344,977	\$0	\$1,344,977	\$0	\$1,344,977
	9008W		Transfers to Other Funds					
468	9008W	549110	10% Operating Reserve [4]	\$0	\$0	\$0	\$0	\$0
469	9008W	549103	Transfer to Renewal and Replacement Fund [6]	0	0	0	0	0
470	9008W	549801	Transfer to General Fund [5]	0	0	0	0	0
471	9008W	549860	Transfer to Transportation [5]	0	0	0	0	0
472	9008W	549880	Transfer to Capital Projects [5]	0	0	0	0	0
473	9008W	549890	Transfer to General Liability [5]	111,600	0	111,600	(111,600)	0
474	9008W	549891	Transfer to Impact Fee [5]	0	0	0	0	0

**Table 1-7
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
475			Total Transfers to Other Funds	\$111,600	\$0	\$111,600	(\$111,600)	\$0
476	2023EW	565000	Developer Agreement - Village of Gulfstream Construction in Progress [2]	\$0	\$0	\$0	\$0	\$0
477			Total Developer Agreement - Village of Gulfstream	\$0	\$0	\$0	\$0	\$0
478	2026GW	531000	Developer Agreement - Wal-Mart Professional Services [2]	\$0	\$0	\$0	\$0	\$0
479			Total Developer Agreement - Wal-Mart	\$0	\$0	\$0	\$0	\$0
480		599000	Other Capital Reclassified as Operating Expense	\$0	\$0	\$0	\$0	\$0
481			Contingency (1.00% of O&M) [7]	0	0	0	91,018	91,018
482			Bad Debt Expense (0.25% of Rate Revenues) [8]	0	0	0	25,828	25,828
483			Additional Personnel Expenses	0	0	0	0	0
484			Total Other	\$0	\$0	\$0	\$116,846	\$116,846
485			Total Water System	<u>\$11,754,162</u>	<u>\$0</u>	<u>\$11,754,162</u>	<u>(\$2,561,334)</u>	<u>\$9,192,828</u>

Footnotes:

- [1] Based on budgeted figures for the Fiscal Year Ending September 30, 2018 as provided by the City.
- [2] Equipment expenses and other capital outlay are adjusted from projected operating expenses and reflected in the capital improvement program on Table 1-14.
- [3] Amounts reflect reductions in the operating budget for debt service payments associated with long-term debt. Such amounts are reflected in Table 1-15.
- [4] Amounts reflect reductions in the operating budget for transfers to the operating fund. Any net surplus or deficiency from revenues is derived on Table 1-18.
- [5] Amounts reflect reductions in the operating budget for intergovernmental transfers shown in Table 1-17.
- [6] Amount reflect reductions in the operating budget for transfers to the R&R Fund shown in Table 1-16.
- [7] Amount based on 1.00% of annual expenses to allow for unforeseen expenses.
- [8] Amount based on 0.25% of annual revenues to allow for uncollectible accounts.

**Table 1-8
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
	3510S		Sewer Collection Administration					
			<u>Personnel Costs</u>					
1	3510S	512000	Regular Salaries and Wages	\$614,255	\$0	\$614,255	\$0	\$614,255
2	3510S	514000	Overtime Pay	30,000	0	30,000	0	30,000
3	3510S	515150	Auto and Travel Allowances	0	0	0	0	0
4	3510S	515250	Payouts - Civil Service	0	0	0	0	0
5	3510S	515300	Payouts - Sick Leave	0	0	0	0	0
6	3510S	515350	Payouts - Vacation Pay	0	0	0	0	0
7	3510S	521050	Social Security	35,099	0	35,099	0	35,099
8	3510S	521100	Medicare	8,301	0	8,301	0	8,301
9	3510S	522150	Pensions - General Employees	134,644	0	134,644	0	134,644
10	3510S	522200	Pensions - ICMA 401a	25,233	0	25,233	0	25,233
11	3510S	522250	Pensions - OPEB	0	0	0	0	0
12	3510S	522300	401a Match Program	14,236	0	14,236	0	14,236
13	3510S	522350	Pensions - Retirement Health	10,751	0	10,751	0	10,751
14	3510S	523050	Health Insurance	156,723	0	156,723	0	156,723
15	3510S	523100	Dental Insurance	1,169	0	1,169	0	1,169
16	3510S	523150	Life Insurance	976	0	976	0	976
17	3510S	523200	Long-term Disability Insurance	864	0	864	0	864
18	3510S	524000	Workers' Compensation	5,937	0	5,937	0	5,937
19			Total Personnel Costs	\$1,038,188	\$0	\$1,038,188	\$0	\$1,038,188
			<u>Operating Services</u>					
20	3510S	531010	Professional Services	\$15,000	\$0	\$15,000	\$0	\$15,000
21	3510S	534010	Outside Services	56,000	0	56,000	0	56,000
22	3510S	534040	Special Events	0	0	0	0	0
23	3510S	541010	Phone and Communications	924	0	924	0	924
24	3510S	543010	Electricity	96,000	0	96,000	0	96,000
25	3510S	543020	Water and Sewer	4,000	0	4,000	0	4,000
26	3510S	544010	Uniforms	3,273	0	3,273	0	3,273
27	3510S	544030	Equipment Rental	1,000	0	1,000	0	1,000
28	3510S	546070	Maintenance Agreements	50,000	0	50,000	0	50,000
29	3510S	546090	Office Equipment	0	0	0	0	0
30	3510S	551000	Office Supplies	0	0	0	0	0
31	3510S	552030	Equipment and Tools	10,000	0	10,000	0	10,000
32	3510S	552050	Medical Supplies	0	0	0	0	0
33	3510S	552080	Traffic Control / Signs	3,000	0	3,000	0	3,000
34	3510S	552140	Diesel Fuel	20,124	0	20,124	0	20,124
35	3510S	552150	Motor Vehicle Fuel	9,000	0	9,000	0	9,000
36	3510S	552170	Computer Equipment and Supplies	0	0	0	0	0
37	3510S	552200	Uniforms / Protective Clothing	3,600	0	3,600	0	3,600
38	3510S	552210	Building Materials / Supplies	3,000	0	3,000	0	3,000
39	3510S	552300	Drafting Supplies	0	0	0	0	0
40	3510S	552250	Machinery Parts	35,000	0	35,000	0	35,000
41	3510S	552250	Machinery Parts [2]	0	0	0	0	0
42	3510S	553010	Rock and Fill	1,500	0	1,500	0	1,500
43	3510S	553020	Asphalt Paving Road Materials	4,000	0	4,000	0	4,000
44	3510S	554010	Books and Publications	0	0	0	0	0
45	3510S	554030	Dues and Memberships	0	0	0	0	0
46	3510S	555020	Meetings and Seminars	0	0	0	0	0
47	3510S	555040	General Employee Training	3,050	0	3,050	0	3,050
48	3510S	555060	License and Certification	1,280	0	1,280	0	1,280
49	3510S	564040	Machinery and Equipment [2]	0	0	0	0	0
50			Total Operating Services	\$319,751	\$0	\$319,751	\$0	\$319,751
51			Total Sewer Collection Administration	\$1,357,939	\$0	\$1,357,939	\$0	\$1,357,939
	3580S		Debt Service					
52	3580S	544020	Principal Series - 2018 SRF [3]	\$12,390	\$0	\$12,390	(\$12,390)	\$0
53	3580S	571220	Principal - 2012 Chase Note [3]	64,976	0	64,976	(64,976)	0

**Table 1-8
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
54	3580S	571225	Principal - Bond Series 2014 [3]	57,368	0	57,368	(57,368)	0
55	3580S	572200	Interest Series - 2018 SRF [3]	3,811	0	3,811	(3,811)	0
56	3580S	572220	Interest - 2012 Chase Note [3]	4,496	0	4,496	(4,496)	0
57	3580S	572225	Interest - Bond Series 2014 [3]	10,627	0	10,627	(10,627)	0
58	3580S	573160	Other Debt Service Costs - 2005A Bonds	0	0	0	0	0
59			Total Debt Service	\$153,668	\$0	\$153,668	(\$153,668)	\$0
	3590S		Non-Departmental					
			<u>Personnel Costs</u>					
60	3590S	512000	Regular Salaries and Wages	\$0	\$0	\$0	\$0	\$0
61	3590S	513050	Other Salaries and Wages	0	0	0	0	0
62	3590S	514000	Overtime Pay	0	0	0	0	0
63	3590S	515150	Auto and Travel Allowances	0	0	0	0	0
64	3590S	515200	Sick Leave Buyback	0	0	0	0	0
65	3590S	515250	Payouts - Civil Service	0	0	0	0	0
66	3590S	515300	Payouts - Sick Leave	5,000	0	5,000	0	5,000
67	3590S	515350	Payouts - Vacation Pay	5,000	0	5,000	0	5,000
68	3590S	515400	Tool Allowance	0	0	0	0	0
69	3590S	515500	Sick Accrual Expense	0	0	0	0	0
70	3590S	515550	Vacation Accrual Expense	0	0	0	0	0
71	3590S	521050	Social Security	0	0	0	0	0
72	3590S	521100	Medicare	0	0	0	0	0
73	3590S	522150	Pensions - General Employees	0	0	0	0	0
74	3590S	522151	General GASB 68	0	0	0	0	0
75	3590S	522200	Pensions - ICMA 401a	0	0	0	0	0
76	3590S	522250	Pensions - OPEB	0	0	0	20,860	20,860
77	3590S	522300	401a Match Program	0	0	0	0	0
78	3590S	522350	Pensions - Retirement Health	0	0	0	0	0
79	3590S	523050	Health Insurance	0	0	0	0	0
80	3590S	523100	Dental Insurance	0	0	0	0	0
81	3590S	523150	Life Insurance	0	0	0	0	0
82	3590S	523200	Long-term Disability Insurance	0	0	0	0	0
83	3590S	524000	Workers' Compensation	0	0	0	0	0
84	3590S	525000	Unemployment Compensation Fee	0	0	0	0	0
85			Total Personnel Costs	\$10,000	\$0	\$10,000	\$20,860	\$30,860
			<u>Operating Services</u>					
86	3590S	531010	Professional Services	\$0	\$0	\$0	\$0	\$0
87	3590S	531030	Employee Physicals	1,750	0	1,750	0	1,750
88	3590S	531040	Legal Services	0	0	0	0	0
89	3590S	531050	Filing and Lien Recording Fees	0	0	0	0	0
90	3590S	532000	Accounting and Auditing	0	0	0	0	0
91	3590S	534010	Outside Services	0	0	0	0	0
92	3590S	534010	Outside Services	0	0	0	0	0
93	3590S	534010	Outside Services	0	0	0	0	0
94	3590S	534040	Special Events	16,000	0	16,000	0	16,000
95	3590S	539055	Credit Card Fees	0	0	0	0	0
96	3590S	541010	Phone and Communications	0	0	0	0	0
97	3590S	542000	Postage and Freight	11,100	0	11,100	0	11,100
98	3590S	543010	Electricity	0	0	0	0	0
99	3590S	543020	Water and Sewer	0	0	0	0	0
100	3590S	543050	Wastewater Treatment	9,453,500	0	9,453,500	0	9,453,500
101	3590S	544010	Uniforms	0	0	0	0	0
102	3590S	544030	Equipment Rental	0	0	0	0	0
103	3590S	544070	Lease - Bus / FEC Railroad	0	0	0	0	0
104	3590S	545010	Property Insurance Premium	0	0	0	0	0
105	3590S	546020	Communication Equipment	0	0	0	0	0
106	3590S	546050	Computer Hardware Maintenance	0	0	0	0	0
107	3590S	546060	Computer Software Maintenance	0	0	0	0	0
108	3590S	546070	Equipment Maintenance Agreements	0	0	0	0	0
109	3590S	546080	Infrastructure Maintenance	0	0	0	0	0
110	3590S	546090	Office Equipment	0	0	0	0	0
111	3590S	547000	Printing and Binding	0	0	0	0	0
112	3590S	548010	Advertising	850	0	850	0	850

**Table 1-8
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
113	3590S	549970	Contingencies	0	0	0	0	0
114	3590S	549980	Grant Match Expenditures	0	0	0	0	0
115	3590S	549990	Working Reserves	0	0	0	0	0
116	3590S	551000	Office Supplies	0	0	0	0	0
117	3590S	552010	Specialized Supplies	0	0	0	0	0
118	3590S	552020	Meter Boxes	0	0	0	0	0
119	3590S	552030	Equipment and Tools	0	0	0	0	0
120	3590S	552050	Medical Supplies	0	0	0	0	0
121	3590S	552060	Chemicals	0	0	0	0	0
122	3590S	552070	Small Furniture and Fixtures	0	0	0	0	0
123	3590S	552080	Traffic Control / Signs	0	0	0	0	0
124	3590S	552090	Horticultural / Beautification	18,500	0	18,500	0	18,500
125	3590S	552140	Diesel Fuel	0	0	0	0	0
126	3590S	552150	Motor Vehicle Fuel	0	0	0	0	0
127	3590S	552160	Grease, Oil, and Lubricants	0	0	0	0	0
128	3590S	552170	Computer Equipment and Supplies	0	0	0	0	0
129	3590S	552180	Water Main Repair Parts	0	0	0	0	0
130	3590S	552200	Uniforms / Protective Clothing	0	0	0	0	0
131	3590S	552210	Building Materials / Supplies	0	0	0	0	0
132	3590S	552230	CM Project / Program Supplies	0	0	0	0	0
133	3590S	552250	Machinery Parts	0	0	0	0	0
134	3590S	552270	Hurricane Preparedness	0	0	0	0	0
135	3590S	552290	Cement	0	0	0	0	0
136	3590S	552300	Drafting Supplies	0	0	0	0	0
137	3590S	553010	Rock and Fill	0	0	0	0	0
138	3590S	553020	Asphalt Paving Road Materials	0	0	0	0	0
139	3590S	554010	Books and Publications	0	0	0	0	0
140	3590S	554030	Dues and Memberships	0	0	0	0	0
141	3590S	554040	Internet Subscriptions	0	0	0	0	0
142	3590S	555010	Computer Training	0	0	0	0	0
143	3590S	555020	Meetings and Seminars	0	0	0	0	0
144	3590S	555030	Tuition Reimbursement	0	0	0	0	0
145	3590S	555040	General Employee Training	0	0	0	0	0
146	3590S	555060	License and Certification	0	0	0	0	0
147	3590S	559010	Depreciation Expense	0	0	0	0	0
148	3590S	564040	Machinery and Equipment [2]	0	0	0	0	0
149	3590S	564070	Computer Equipment and Supplies [2]	0	0	0	0	0
150	3590S	565000	Construction in Progress [2]	0	0	0	0	0
151	3590S	565000	Construction in Progress [2]	0	0	0	0	0
152	3590S	565000	Construction in Progress [2]	0	0	0	0	0
153			Total Operating Services	\$9,501,700	\$0	\$9,501,700	\$0	\$9,501,700
154			Total Non-Departmental	\$9,511,700	\$0	\$9,511,700	\$20,860	\$9,532,560
	3595S		Renewal & Replacement					
			<u>Personnel Costs</u>					
155	3595S	512000	Regular Salaries and Wages	\$0	\$0	\$0	\$0	\$0
156	3595S	513050	Other Salaries and Wages	0	0	0	0	0
157	3595S	514000	Overtime Pay	0	0	0	0	0
158	3595S	515150	Auto and Travel Allowances	0	0	0	0	0
159	3595S	515200	Sick Leave Buyback	0	0	0	0	0
160	3595S	515250	Payouts - Civil Service	0	0	0	0	0
161	3595S	515300	Payouts - Sick Leave	0	0	0	0	0
162	3595S	515350	Payouts - Vacation Pay	0	0	0	0	0
163	3595S	515400	Tool Allowance	0	0	0	0	0
164	3595S	515500	Sick Accrual Expense	0	0	0	0	0
165	3595S	515550	Vacation Accrual Expense	0	0	0	0	0
166	3595S	521050	Social Security	0	0	0	0	0
167	3595S	521100	Medicare	0	0	0	0	0
168	3595S	522150	Pensions - General Employees	0	0	0	0	0
169	3595S	522200	Pensions - ICMA 401a	0	0	0	0	0
170	3595S	522250	Pensions - OPEB	0	0	0	0	0
171	3595S	522300	401a Match Program	0	0	0	0	0
172	3595S	522350	Pensions - Retirement Health	0	0	0	0	0
173	3595S	523050	Health Insurance	0	0	0	0	0

**Table 1-8
City of Hallandale Beach, Florida
Utility Rate Study**

Fiscal Year 2018 Budgeted Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
174	3595S	523100	Dental Insurance	0	0	0	0	0
175	3595S	523150	Life Insurance	0	0	0	0	0
176	3595S	523200	Long-term Disability Insurance	0	0	0	0	0
177	3595S	524000	Workers' Compensation	0	0	0	0	0
178	3595S	525000	Unemployment Compensation Fee	0	0	0	0	0
179			Total Personnel Costs	\$0	\$0	\$0	\$0	\$0
			<u>Operating Services</u>					
180	3595S	531010	Professional Services [2]	\$0	\$0	\$0	\$0	\$0
181	3595S	534010	Outside Services [2]	0	0	0	0	0
182	3595S	552170	Computer Equipment and Supplies [2]	0	0	0	0	0
183	3595S	563070	Sewer Lines [2]	0	0	0	0	0
184	3595S	564040	Machinery and Equipment [2]	0	0	0	0	0
185	3595S	565000	Construction in Progress [2]	0	0	0	0	0
186	3595S	565000	Construction in Progress [2]	0	0	0	0	0
187	3595S	565000	Construction in Progress [2]	1,111,705	0	1,111,705	(1,111,705)	0
188			Total Operating Services	\$1,111,705	\$0	\$1,111,705	(\$1,111,705)	\$0
189			Total Renewal & Replacement	\$1,111,705	\$0	\$1,111,705	(\$1,111,705)	\$0
	3596S		<u>Equipment Replacement</u>					
			<u>Operating Services</u>					
190	3596S	549530	Admin Charges to Fleet Services	\$381,784	\$0	\$381,784	\$0	\$381,784
191			Total Operating Services	\$381,784	\$0	\$381,784	\$0	\$381,784
192			Total Equipment Replacement	\$381,784	\$0	\$381,784	\$0	\$381,784
193			Subtotal Sewer System	\$12,516,796	\$0	\$12,516,796	(\$1,244,513)	\$11,272,283
	3596S		SRF Loan WW0061720					
			<u>Operating Services</u>					
194	3596S	531010	Professional Services	\$0	\$0	\$0	\$0	\$0
195			Total Operating Services	\$0	\$0	\$0	\$0	\$0
196			Total SRF Loan WW0061720	\$0	\$0	\$0	\$0	\$0
	8912S		Charges to Other Fund					
197	8912S	549001	Administrative Transfer to the General Fund	\$1,098,347	\$0	\$1,098,347	\$0	\$1,098,347
198	8912S	549160	Administrative Transfer to the Transportation	874	0	874	0	874
199	8912S	549410	Administrative Transfer to the Sanitation	61,860	0	61,860	0	61,860
200	8912S	549440	Administrative Transfer to the Stormwater	11,489	0	11,489	0	11,489
201			Total Charges to Other Funds	\$1,172,570	\$0	\$1,172,570	\$0	\$1,172,570
	9010S		Transfers to Other Funds					
202	9010S	549110	10% Operating Reserve	\$1,000,000	\$0	\$1,000,000	\$0	\$1,000,000
202	9010S	549103	Transfer to Renewal and Replacement Fund [6]	0	0	0	0	0
203	9010S	549801	Transfer to General Fund [5]	0	0	0	0	0
204	9010S	549860	Transfer to Transportation [5]	0	0	0	0	0
205	9010S	549880	Transfer to Capital Projects [5]	0	0	0	0	0
206	9010S	549890	Transfer to General Liability [5]	0	0	0	0	0
207	9010S	549891	Transfer to Impact Fee [5]	0	0	0	0	0
208			Total Transfers to Other Funds	\$1,000,000	\$0	\$1,000,000	\$0	\$1,000,000

Table 1-8
City of Hallandale Beach, Florida
Utility Rate Study

Fiscal Year 2018 Budgeted Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Budget 2018	Budget Amendments	Amended 2018	PRMG Adjustments	Adjusted 2018
Other								
209		599000	Capital Reclassified as Operating Expense	\$0	\$0	\$0	\$0	\$0
210			Contingency (1.00% of O&M) [7]	0	0	0	134,802	134,802
211			Bad Debt (0.25% of Rate Revenues) [8]	0	0	0	35,391	35,391
212			Additional Personnel Expenses	0	0	0	0	0
213			Total Other Expenses	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$170,194</u>	<u>\$170,194</u>
214			Total System	<u><u>\$14,689,366</u></u>	<u><u>\$0</u></u>	<u><u>\$14,689,366</u></u>	<u><u>(\$1,074,319)</u></u>	<u><u>\$13,615,047</u></u>

Footnotes:

- [1] Based on budgeted figures for the Fiscal Year Ending September 30, 2018 as provided by the City.
- [2] Equipment expenses and other capital outlay are adjusted from projected operating expenses and reflected in the capital improvement program on Table 1-14.
- [3] Amounts reflect reductions in the operating budget for debt service payments associated with long-term debt. Such amounts are reflected in Table 1-15.
- [4] Amounts reflect reductions in the operating budget for transfers to the operating fund. Any net surplus or deficiency from revenues is derived on Table 1-19.
- [5] Amounts reflect reductions in the operating budget for intergovernmental transfers shown in Table 1-17.
- [6] Amount reflect reductions in the operating budget for transfers to the R&R Fund shown in Table 1-16.
- [7] Amount based on 1.00% of annual expenses to allow for unforeseen expenses.
- [8] Amount based on 0.25% of annual revenues to allow for uncollectible accounts.

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
	3310W		Water Administration						
			<u>Personnel Costs</u>						
1	3310W	512000	Regular Salaries and Wages	\$796,036	Personnel	\$819,917	\$844,515	\$869,850	\$895,946
2	3310W	514000	Overtime Pay	6,000	Personnel	6,180	6,365	6,556	6,753
3	3310W	515150	Auto and Travel Allowances	4,200	Inflation	4,297	4,400	4,505	4,613
4	3310W	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
5	3310W	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
6	3310W	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
7	3310W	521050	Social Security	47,418	Personnel	48,841	50,306	51,815	53,369
8	3310W	521100	Medicare	11,286	Personnel	11,625	11,973	12,333	12,702
9	3310W	522150	Pensions - General Employees	75,949	Personnel	78,227	80,574	82,992	85,481
10	3310W	522200	Pensions - ICMA 401a	71,871	Personnel	74,027	76,248	78,535	80,891
11	3310W	522250	Pensions - OPEB	41,453	Personnel	42,697	43,978	45,297	46,656
12	3310W	522300	401a Match Program	23,767	Personnel	24,480	25,214	25,971	26,750
13	3310W	522350	Pensions - Retirement Health	9,806	Personnel	10,100	10,403	10,715	11,037
14	3310W	523050	Health Insurance	135,191	Ins-Health	148,710	163,581	179,939	197,933
15	3310W	523100	Dental Insurance	3,862	Ins-Health	4,248	4,673	5,140	5,654
16	3310W	523150	Life Insurance	885	Ins-Health	974	1,071	1,178	1,296
17	3310W	523200	Long-term Disability Insurance	783	Ins-Health	861	947	1,042	1,146
18	3310W	524000	Workers' Compensation	2,418	Worker Comp	2,539	2,666	2,799	2,939
19			Total Personnel Costs	\$1,230,925		\$1,277,722	\$1,326,915	\$1,378,668	\$1,433,168
			<u>Operating Services</u>						
20	3310W	531010	Professional Services	\$35,000	ProfSvc	\$36,050	\$37,132	\$38,245	\$39,393
21	3310W	531010	Professional Services	0	ProfSvc	0	0	0	0
22	3310W	534010	Outside Services	15,000	ProfSvc	15,450	15,914	16,391	16,883
23	3310W	534010	Outside Services	0	ProfSvc	0	0	0	0
24	3310W	534040	Special Events	0	Inflation	0	0	0	0
25	3310W	541010	Phone and Communications	5,208	Inflation	5,328	5,456	5,587	5,721
26	3310W	544010	Uniforms	0	Inflation	0	0	0	0
27	3310W	546090	Office Equipment	2,000	Inflation	2,046	2,095	2,145	2,197
28	3310W	551000	Office Supplies	4,000	Inflation	4,092	4,190	4,291	4,394
29	3310W	552050	Medical Supplies	300	Inflation	307	314	322	330
30	3310W	552150	Motor Vehicle Fuel	2,800	Fuel	2,940	3,087	3,241	3,403
31	3310W	552170	Computer Equipment and Supplies	1,200	Inflation	1,228	1,257	1,287	1,318
32	3310W	552200	Uniforms / Protective Clothing	1,460	Inflation	1,494	1,529	1,566	1,604
33	3310W	552300	Drafting Supplies	1,500	Inflation	1,535	1,571	1,609	1,648
34	3310W	554010	Books and Publications	0	Inflation	0	0	0	0
35	3310W	554030	Dues and Memberships	2,159	Inflation	2,209	2,262	2,316	2,372
36	3310W	555020	Meetings and Seminars	13,200	Inflation	13,504	13,828	14,160	14,499
37	3310W	555040	General Employee Training	2,490	Inflation	2,547	2,608	2,671	2,735
38	3310W	555060	License and Certification	450	Inflation	460	471	483	494
39	3310W	564010	Automobiles	0	Eliminate	0	0	0	0
40			Total Operating Services	\$86,767		\$89,188	\$91,714	\$94,314	\$96,989
41			Total Water Administration	\$1,317,692		\$1,366,911	\$1,418,629	\$1,472,982	\$1,530,157
	3320W		Water Production						
			<u>Personnel Costs</u>						
42	3320W	512000	Regular Salaries and Wages	\$810,490	Personnel	\$834,805	\$859,849	\$885,644	\$912,214
43	3320W	513050	Relief Employees	30,000	Personnel	30,900	31,827	32,782	33,765
44	3320W	514000	Overtime Pay	45,000	Personnel	46,350	47,741	49,173	50,648
45	3320W	515150	Auto and Travel Allowances	0	Inflation	0	0	0	0
46	3320W	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
47	3320W	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
48	3320W	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
49	3320W	521050	Social Security	48,547	Personnel	50,003	51,504	53,049	54,640
50	3320W	521100	Medicare	11,358	Personnel	11,699	12,050	12,411	12,784
51	3320W	522150	Pensions - General Employees	115,191	Personnel	118,647	122,206	125,872	129,648
52	3320W	522200	Pensions - ICMA 401a	32,959	Personnel	33,948	34,966	36,015	37,096
53	3320W	522250	Pensions - OPEB	0	Personnel	0	0	0	0
54	3320W	522300	401a Match Program	18,271	Personnel	18,819	19,384	19,965	20,564
55	3320W	522350	Pensions - Retirement Health	11,808	Personnel	12,162	12,527	12,903	13,290
56	3320W	523050	Health Insurance	122,947	Ins-Health	135,242	148,766	163,642	180,007
57	3320W	523100	Dental Insurance	558	Ins-Health	614	675	743	817
58	3320W	523150	Life Insurance	1,069	Ins-Health	1,176	1,293	1,423	1,565
59	3320W	523200	Long-term Disability Insurance	946	Ins-Health	1,041	1,145	1,259	1,385
60	3320W	524000	Workers' Compensation	4,109	Worker Comp	4,314	4,530	4,757	4,995
61			Total Personnel Costs	\$1,253,253		\$1,299,719	\$1,348,462	\$1,399,638	\$1,453,417
			<u>Operating Services</u>						
62	3320W	531010	Professional Services	\$130,000	ProfSvc	\$133,900	\$137,917	\$142,055	\$146,316

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
63	3320W	531010	Professional Services	0	ProfSvc	0	0	0	0
64	3320W	531010	Professional Services	0	ProfSvc	0	0	0	0
65	3320W	534010	Outside Services	64,000	Repair	65,920	67,898	69,935	72,033
66	3320W	534010	Outside Services	0	ProfSvc	0	0	0	0
67	3320W	534010	Outside Services	0	ProfSvc	0	0	0	0
68	3320W	534040	Special Events	0	Inflation	0	0	0	0
69	3320W	541010	Phone and Communications	420	Inflation	430	440	451	461
70	3320W	543010	Electricity	275,000	Utility-W	292,512	311,177	330,583	352,629
71	3320W	544010	Uniforms	3,454	Inflation	3,533	3,618	3,705	3,794
72	3320W	544030	Equipment Rental	600	Inflation	614	629	644	659
73	3320W	546070	Equipment Maintenance Agreements	146,500	Repair	150,895	155,422	160,085	164,887
74	3320W	546090	Office Equipment	0	Inflation	0	0	0	0
75	3320W	551000	Office Supplies	0	Inflation	0	0	0	0
76	3320W	552010	Specialized Supplies	9,600	Inflation	9,821	10,056	10,298	10,545
77	3320W	552030	Equipment and Tools	4,100	Repair	4,223	4,350	4,480	4,615
78	3320W	552050	Medical Supplies	0	Inflation	0	0	0	0
79	3320W	552060	Chemicals	471,000	Chem-W	500,993	532,961	566,198	603,958
80	3320W	552070	Small Furniture and Fixtures	0	Inflation	0	0	0	0
81	3320W	552140	Diesel Fuel	6,000	Fuel	6,300	6,615	6,946	7,293
82	3320W	552150	Motor Vehicle Fuel	800	Fuel	840	882	926	972
83	3320W	552160	Grease, Oil, and Lubricants	100	Inflation	102	105	107	110
84	3320W	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
85	3320W	552200	Uniforms / Protective Clothing	3,160	Inflation	3,233	3,310	3,390	3,471
86	3320W	552250	Machinery Parts	136,200	Repair	140,286	144,495	148,829	153,294
87	3320W	552280	Purchased Water	374,050	Bulk Water	397,869	423,257	449,653	479,640
88	3320W	552300	Drafting Supplies	0	Inflation	0	0	0	0
89	3320W	554010	Books and Publications	0	Inflation	0	0	0	0
90	3320W	554030	Dues and Memberships	840	Inflation	859	880	901	923
91	3320W	555020	Meetings and Seminars	0	Inflation	0	0	0	0
92	3320W	555040	General Employee Training	3,600	Inflation	3,683	3,771	3,862	3,954
93	3320W	555060	License and Certification	11,369	Inflation	11,630	11,910	12,195	12,488
94	3320W	555060	License and Certification	0	Inflation	0	0	0	0
95	3320W	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
96	3320W	565000	Construction in Progress	0	Eliminate	0	0	0	0
97	3320W	565000	Construction in Progress	0	Eliminate	0	0	0	0
98			Total Operating Services	\$1,640,793		\$1,727,643	\$1,819,691	\$1,915,241	\$2,022,042
99			Total Water Production	\$2,894,046		\$3,027,363	\$3,168,153	\$3,314,879	\$3,475,460
	3330W		Transmission and Distribution						
			Personnel Costs						
100	3330W	512000	Regular Salaries and Wages	\$692,354	Personnel	\$713,125	\$734,518	\$756,554	\$779,251
101	3330W	513000	Other Salaries and Wages	33,280	Personnel	34,278	35,307	36,366	37,457
102	3330W	514000	Overtime Pay	42,000	Personnel	43,260	44,558	45,895	47,271
103	3330W	515150	Auto and Travel Allowances	0	Inflation	0	0	0	0
104	3330W	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
105	3330W	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
106	3330W	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
107	3330W	521050	Social Security	42,683	Personnel	43,963	45,282	46,641	48,040
108	3330W	521100	Medicare	9,987	Personnel	10,287	10,595	10,913	11,240
109	3330W	522150	Pensions - General Employees	115,556	Personnel	119,023	122,593	126,271	130,059
110	3330W	522200	Pensions - ICMA 401a	19,478	Personnel	20,062	20,664	21,284	21,923
111	3330W	522250	Pensions - OPEB	0	Personnel	0	0	0	0
112	3330W	522300	401a Match Program	17,746	Personnel	18,278	18,827	19,392	19,973
113	3330W	522350	Pensions - Retirement Health	11,520	Personnel	11,866	12,222	12,588	12,966
114	3330W	523050	Health Insurance	142,433	Ins-Health	156,676	172,344	189,578	208,536
115	3330W	523100	Dental Insurance	1,482	Ins-Health	1,630	1,793	1,973	2,170
116	3330W	523150	Life Insurance	1,044	Ins-Health	1,148	1,263	1,390	1,529
117	3330W	523200	Long-term Disability Insurance	924	Ins-Health	1,016	1,118	1,230	1,353
118	3330W	524000	Workers' Compensation	5,182	Worker Comp	5,441	5,713	5,999	6,299
119			Total Personnel Costs	\$1,135,669		\$1,180,055	\$1,226,798	\$1,276,072	\$1,328,067
			Operating Services						
120	3330W	531010	Professional Services	\$0	ProfSvc	\$0	\$0	\$0	\$0
121	3330W	531010	Professional Services	0	ProfSvc	0	0	0	0
122	3330W	531010	Professional Services	0	ProfSvc	0	0	0	0
123	3330W	534010	Outside Services	22,400	ProfSvc	23,072	23,764	24,477	25,211
124	3330W	534010	Outside Services	0	ProfSvc	0	0	0	0
125	3330W	534010	Outside Services	0	ProfSvc	0	0	0	0
126	3330W	534040	Special Events	0	Inflation	0	0	0	0
127	3330W	541010	Phone and Communications	1,680	Inflation	1,719	1,760	1,802	1,845
128	3330W	543010	Electricity	0	Utility	0	0	0	0
129	3330W	544010	Uniforms	3,966	Inflation	4,057	4,155	4,254	4,356

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
130	3330W	544030	Equipment Rental	500	Inflation	512	524	536	549
131	3330W	546070	Equipment Maintenance Agreements	4,000	Repair	4,120	4,244	4,371	4,502
132	3330W	546090	Office Equipment	0	Inflation	0	0	0	0
133	3330W	547000	Printing and Binding	150	Inflation	153	157	161	165
134	3330W	551000	Office Supplies	0	Inflation	0	0	0	0
135	3330W	552010	Specialized Supplies	0	Inflation	0	0	0	0
136	3330W	552020	Meter Boxes	9,000	Repair	9,270	9,548	9,835	10,130
137	3330W	552030	Equipment and Tools	6,000	Repair	6,180	6,365	6,556	6,753
138	3330W	552050	Medical Supplies	0	Inflation	0	0	0	0
139	3330W	552060	Chemicals	0	Chemical	0	0	0	0
140	3330W	552070	Small Furniture and Fixtures	0	Inflation	0	0	0	0
141	3330W	552080	Traffic Control / Signs	3,000	Inflation	3,069	3,143	3,218	3,295
142	3330W	552140	Diesel Fuel	7,020	Fuel	7,371	7,740	8,127	8,533
143	3330W	552150	Motor Vehicle Fuel	11,136	Fuel	11,693	12,277	12,891	13,536
144	3330W	552160	Grease, Oil, and Lubricants	0	Inflation	0	0	0	0
145	3330W	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
146	3330W	552180	Water Main Repair Parts	88,000	Repair	90,640	93,359	96,160	99,045
147	3330W	552200	Uniforms / Protective Clothing	3,400	Inflation	3,478	3,562	3,647	3,735
148	3330W	552210	Building Materials / Supplies	4,000	Inflation	4,092	4,190	4,291	4,394
149	3330W	552250	Machinery Parts	1,500	Repair	1,545	1,591	1,639	1,688
150	3330W	552280	Purchased Water	0	Inflation	0	0	0	0
151	3330W	552290	Cement	5,000	Inflation	5,115	5,238	5,363	5,492
152	3330W	553010	Rock and Fill	10,000	Inflation	10,230	10,476	10,727	10,984
153	3330W	553010	Rock and Fill	0	Inflation	0	0	0	0
154	3330W	553020	Asphalt Paving Road Materials	15,000	Inflation	15,345	15,713	16,090	16,477
155	3330W	552300	Drafting Supplies	0	Inflation	0	0	0	0
156	3330W	554010	Books and Publications	0	Inflation	0	0	0	0
157	3330W	554030	Dues and Memberships	0	Inflation	0	0	0	0
158	3330W	555020	Meetings and Seminars	0	Inflation	0	0	0	0
159	3330W	555040	General Employee Training	5,350	Inflation	5,473	5,604	5,739	5,877
160	3330W	555060	License and Certification	600	Inflation	614	629	644	659
161	3330W	555060	License and Certification	0	Inflation	0	0	0	0
162	3330W	564060	Communications Equipment	0	Eliminate	0	0	0	0
163	3330W	565000	Construction in Progress	0	Eliminate	0	0	0	0
164			Total Operating Services	\$201,702		\$207,748	\$214,038	\$220,529	\$227,226
165			Total Transmission and Distribution	\$1,337,371		\$1,387,802	\$1,440,836	\$1,496,601	\$1,555,293
	3340W		Utility Billing Division						
			<u>Personnel Costs</u>						
166	3340W	512000	Regular Salaries and Wages	\$421,813	Personnel	\$434,467	\$447,501	\$460,926	\$474,754
167	3340W	513000	Other Salaries and Wages	31,980	Personnel	32,939	33,928	34,945	35,994
168	3340W	514000	Overtime Pay	10,000	Personnel	10,300	10,609	10,927	11,255
169	3340W	515150	Auto and Travel Allowances	0	Inflation	0	0	0	0
170	3340W	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
171	3340W	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
172	3340W	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
173	3340W	521050	Social Security	27,443	Personnel	28,266	29,114	29,988	30,887
174	3340W	521100	Medicare	6,421	Personnel	6,614	6,812	7,016	7,227
175	3340W	522150	Pensions - General Employees	22,830	Personnel	23,515	24,220	24,947	25,695
176	3340W	522200	Pensions - ICMA 401a	30,425	Personnel	31,338	32,278	33,246	34,244
177	3340W	522250	Pensions - OPEB	0	Personnel	0	0	0	0
178	3340W	522300	401a Match Program	10,620	Personnel	10,939	11,267	11,605	11,953
179	3340W	522350	Pensions - Retirement Health	6,720	Personnel	6,922	7,129	7,343	7,563
180	3340W	523050	Health Insurance	64,795	Ins-Health	71,275	78,402	86,242	94,866
181	3340W	523100	Dental Insurance	1,982	Ins-Health	2,180	2,398	2,638	2,902
182	3340W	523150	Life Insurance	609	Ins-Health	670	737	811	892
183	3340W	523200	Long-term Disability Insurance	539	Ins-Health	593	652	717	789
184	3340W	524000	Workers' Compensation	684	Worker Comp	718	754	792	831
185			Total Personnel Costs	\$636,861		\$660,735	\$685,802	\$712,144	\$739,853
			<u>Operating Services</u>						
186	3340W	531010	Professional Services	\$0	ProfSvc	\$0	\$0	\$0	\$0
187	3340W	531050	Filing and Lien Recording Fees	3,000	Inflation	3,069	3,143	3,218	3,295
188	3340W	534010	Outside Services	31,700	ProfSvc	32,651	33,631	34,639	35,679
189	3340W	534010	Outside Services	0	ProfSvc	0	0	0	0
190	3340W	534010	Outside Services	0	ProfSvc	0	0	0	0
191	3340W	534040	Special Events	0	Inflation	0	0	0	0
192	3340W	539055	Credit Card Fees	98,000	Inflation	100,254	102,660	105,124	107,647
193	3340W	541010	Phone and Communications	0	Inflation	0	0	0	0
194	3340W	542000	Postage and Freight	61,000	Inflation	62,403	63,901	65,434	67,005
195	3340W	543010	Electricity	0	Utility	0	0	0	0
196	3340W	544010	Uniforms	0	Inflation	0	0	0	0

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
197	3340W	544030	Equipment Rental	0	Inflation	0	0	0	0
198	3340W	546050	Computer Hardware Maintenance	0	Inflation	0	0	0	0
199	3340W	546060	Computer Software Maintenance	0	Inflation	0	0	0	0
200	3340W	546070	Equipment Maintenance Agreements	0	Repair	0	0	0	0
201	3340W	546090	Office Equipment	750	Inflation	767	786	805	824
202	3340W	547000	Printing and Binding	500	Inflation	512	524	536	549
203	3340W	551000	Office Supplies	4,000	Inflation	4,092	4,190	4,291	4,394
204	3340W	552010	Specialized Supplies	0	Inflation	0	0	0	0
205	3340W	552020	Meter Boxes	0	Repair	0	0	0	0
206	3340W	552030	Equipment and Tools	0	Inflation	0	0	0	0
207	3340W	552050	Medical Supplies	0	Inflation	0	0	0	0
208	3340W	552060	Chemicals	0	Chemical	0	0	0	0
209	3340W	552070	Small Furniture and Fixtures	1,000	Inflation	1,023	1,048	1,073	1,098
210	3340W	552070	Small Furniture and Fixtures	0	Inflation	0	0	0	0
211	3340W	552080	Traffic Control / Signs	0	Inflation	0	0	0	0
212	3340W	552140	Diesel Fuel	0	Fuel	0	0	0	0
213	3340W	552150	Motor Vehicle Fuel	0	Fuel	0	0	0	0
214	3340W	552160	Grease, Oil, and Lubricants	0	Inflation	0	0	0	0
215	3340W	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
216	3340W	552180	Water Main Repair Parts	0	Repair	0	0	0	0
217	3340W	552200	Uniforms / Protective Clothing	1,000	Inflation	1,023	1,048	1,073	1,098
218	3340W	552210	Building Materials / Supplies	0	Inflation	0	0	0	0
219	3340W	552250	Machinery Parts	0	Repair	0	0	0	0
220	3340W	552280	Purchased Water	0	Inflation	0	0	0	0
221	3340W	552290	Cement	0	Inflation	0	0	0	0
222	3340W	553010	Rock and Fill	0	Inflation	0	0	0	0
223	3340W	553020	Asphalt Paving Road Materials	0	Inflation	0	0	0	0
224	3340W	552300	Drafting Supplies	0	Inflation	0	0	0	0
225	3340W	554010	Books and Publications	0	Inflation	0	0	0	0
226	3340W	554030	Dues and Memberships	1,440	Inflation	1,473	1,508	1,545	1,582
227	3340W	555020	Meetings and Seminars	12,400	Inflation	12,685	12,990	13,301	13,621
228	3340W	555040	General Employee Training	0	Inflation	0	0	0	0
229	3340W	555060	License and Certification	210	Inflation	215	220	225	231
230	3340W	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
231	3340W	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
232			Total Operating Services	\$215,000		\$220,167	\$225,647	\$231,264	\$237,022
233			Total Utility Billing Division	\$851,861		\$880,902	\$911,449	\$943,408	\$976,875
	3370W		Plant Maintenance						
			<u>Personnel Costs</u>						
234	3370W	512000	Regular Salaries and Wages	\$145,029	Personnel	\$149,380	\$153,861	\$158,477	\$163,231
235	3370W	513000	Other Salaries and Wages	0	Personnel	0	0	0	0
236	3370W	514000	Overtime Pay	6,000	Personnel	6,180	6,365	6,556	6,753
237	3370W	515150	Auto and Travel Allowances	0	Inflation	0	0	0	0
238	3370W	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
239	3370W	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
240	3370W	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
241	3370W	515400	Tool Allowance	0	Inflation	0	0	0	0
242	3370W	521050	Social Security	8,359	Personnel	8,610	8,868	9,134	9,408
243	3370W	521100	Medicare	1,957	Personnel	2,016	2,076	2,138	2,203
244	3370W	522150	Pensions - General Employees	22,826	Personnel	23,511	24,216	24,943	25,691
245	3370W	522200	Pensions - ICMA 401a	6,593	Personnel	6,791	6,995	7,204	7,420
246	3370W	522250	Pensions - OPEB	0	Personnel	0	0	0	0
247	3370W	522300	401a Match Program	2,638	Personnel	2,717	2,799	2,883	2,969
248	3370W	522350	Pensions - Retirement Health	2,880	Personnel	2,966	3,055	3,147	3,241
249	3370W	523050	Health Insurance	44,510	Ins-Health	48,961	53,857	59,243	65,167
250	3370W	523100	Dental Insurance	180	Ins-Health	198	218	240	264
251	3370W	523150	Life Insurance	261	Ins-Health	287	316	347	382
252	3370W	523200	Long-term Disability Insurance	231	Ins-Health	254	280	307	338
253	3370W	524000	Workers' Compensation	1,217	Worker Comp	1,278	1,342	1,409	1,479
254			Total Personnel Costs	\$242,681		\$253,149	\$264,248	\$276,029	\$288,547
			<u>Operating Services</u>						
255	3370W	531010	Professional Services	\$0	ProfSvc	\$0	\$0	\$0	\$0
256	3370W	531050	Filing and Lien Recording Fees	0	Inflation	0	0	0	0
257	3370W	534010	Outside Services	0	ProfSvc	0	0	0	0
258	3370W	534040	Special Events	0	Inflation	0	0	0	0
259	3370W	539055	Credit Card Fees	0	Inflation	0	0	0	0
260	3370W	541010	Phone and Communications	0	Inflation	0	0	0	0
261	3370W	542000	Postage and Freight	0	Inflation	0	0	0	0
262	3370W	543010	Electricity	0	Utility	0	0	0	0
263	3370W	544010	Uniforms	732	Inflation	749	767	785	804

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
264	3370W	544030	Equipment Rental	0	Inflation	0	0	0	0
265	3370W	546050	Computer Hardware Maintenance	0	Inflation	0	0	0	0
266	3370W	546060	Computer Software Maintenance	0	Inflation	0	0	0	0
267	3370W	546070	Equipment Maintenance Agreements	0	Repair	0	0	0	0
268	3370W	546090	Office Equipment	0	Inflation	0	0	0	0
269	3370W	547000	Printing and Binding	0	Inflation	0	0	0	0
270	3370W	551000	Office Supplies	0	Inflation	0	0	0	0
271	3370W	552010	Specialized Supplies	0	Inflation	0	0	0	0
272	3370W	552020	Meter Boxes	0	Repair	0	0	0	0
273	3370W	552030	Equipment and Tools	600	Repair	618	637	656	675
274	3370W	552050	Medical Supplies	0	Inflation	0	0	0	0
275	3370W	552060	Chemicals	0	Chemical	0	0	0	0
276	3370W	552070	Small Furniture and Fixtures	0	Inflation	0	0	0	0
277	3370W	552080	Traffic Control / Signs	0	Inflation	0	0	0	0
278	3370W	552140	Diesel Fuel	0	Fuel	0	0	0	0
279	3370W	552150	Motor Vehicle Fuel	720	Fuel	756	794	833	875
280	3370W	552160	Grease, Oil, and Lubricants	600	Inflation	614	629	644	659
281	3370W	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
282	3370W	552180	Water Main Repair Parts	0	Repair	0	0	0	0
283	3370W	552200	Uniforms / Protective Clothing	930	Inflation	951	974	998	1,022
284	3370W	552210	Building Materials / Supplies	9,000	Inflation	9,207	9,428	9,654	9,886
285	3370W	552250	Machinery Parts	1,500	Repair	1,545	1,591	1,639	1,688
286	3370W	552280	Purchased Water	0	Inflation	0	0	0	0
287	3370W	552290	Cement	0	Inflation	0	0	0	0
288	3370W	553010	Rock and Fill	0	Inflation	0	0	0	0
289	3370W	553020	Asphalt Paving Road Materials	0	Inflation	0	0	0	0
290	3370W	552300	Drafting Supplies	0	Inflation	0	0	0	0
291	3370W	554010	Books and Publications	0	Inflation	0	0	0	0
292	3370W	554030	Dues and Memberships	0	Inflation	0	0	0	0
293	3370W	555020	Meetings and Seminars	0	Inflation	0	0	0	0
294	3370W	555040	General Employee Training	3,000	Inflation	3,069	3,143	3,218	3,295
295	3370W	555060	License and Certification	0	Inflation	0	0	0	0
296	3370W	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
297			Total Operating Services	\$17,082		\$17,509	\$17,962	\$18,427	\$18,905
298			Total Plant Maintenance	\$259,763		\$270,658	\$282,209	\$294,456	\$307,452
			Debt Service						
299	3380W	544020	Copiers / Office Equipment Leases	\$8,304	Inflation	\$8,495	\$8,699	\$8,908	\$9,121
300	3380W	571220	Principal - 2012 Chase Note	0	Eliminate	0	0	0	0
301	3380W	571225	Principal - Bond Series 2014	0	Eliminate	0	0	0	0
302	3380W	572220	Interest - 2012 Chase Note	0	Eliminate	0	0	0	0
303	3380W	572225	Interest - Bond Series 2014	0	Eliminate	0	0	0	0
304			Total Debt Service	\$8,304		\$8,495	\$8,699	\$8,908	\$9,121
			Non-Departmental						
			Personnel Costs						
305	3390W	512000	Regular Salaries and Wages	\$0	Personnel	\$0	\$0	\$0	\$0
306	3390W	513000	Other Salaries and Wages	0	Personnel	0	0	0	0
307	3390W	514000	Overtime Pay	0	Personnel	0	0	0	0
308	3390W	515150	Auto and Travel Allowances	0	Inflation	0	0	0	0
309	3390W	515200	Sick Leave Buyback	30,000	Personnel	30,900	31,827	32,782	33,765
310	3390W	515250	Payouts - Civil Service	10,000	Personnel	10,300	10,609	10,927	11,255
311	3390W	515300	Payouts - Sick Leave	20,000	Personnel	20,600	21,218	21,855	22,510
312	3390W	515350	Payouts - Vacation Pay	20,000	Personnel	20,600	21,218	21,855	22,510
313	3390W	515400	Tool Allowance	0	Inflation	0	0	0	0
314	3390W	515500	Sick Accrual Expense	0	Personnel	0	0	0	0
315	3390W	515550	Vacation Accrual Expense	0	Personnel	0	0	0	0
316	3390W	521050	Social Security	0	Personnel	0	0	0	0
317	3390W	521100	Medicare	0	Personnel	0	0	0	0
318	3390W	522050	Pensions -	0	Personnel	0	0	0	0
319	3390W	522051	Professional GASB68	0	Personnel	0	0	0	0
320	3390W	522150	Pensions - General Employees	0	Personnel	0	0	0	0
321	3390W	522151	General GASB 68	0	Personnel	0	0	0	0
322	3390W	522200	Pensions - ICMA 401a	0	Personnel	0	0	0	0
323	3390W	522250	Pensions - OPEB	0	Personnel	0	0	0	0
324	3390W	522300	401a Match Program	0	Personnel	0	0	0	0
325	3390W	522350	Pensions - Retirement Health	0	Personnel	0	0	0	0
326	3390W	523050	Health Insurance	0	Ins-Health	0	0	0	0
327	3390W	523100	Dental Insurance	0	Ins-Health	0	0	0	0
328	3390W	523150	Life Insurance	0	Ins-Health	0	0	0	0
329	3390W	523200	Long-term Disability Insurance	0	Ins-Health	0	0	0	0
330	3390W	524000	Workers' Compensation	0	Worker Comp	0	0	0	0

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
331	3390W	525000	Unemployment Compensation Fee	10,000	Personnel	10,300	10,609	10,927	11,255
332			Total Personnel Costs	\$90,000		\$92,700	\$95,481	\$98,345	\$101,296
			Operating Services						
333	3390W	531010	Professional Services	\$135,000	ProfSvc	\$139,050	\$143,222	\$147,518	\$151,944
334	3390W	531010	Professional Services	0	ProfSvc	0	0	0	0
335	3390W	531010	Professional Services	0	ProfSvc	0	0	0	0
336	3390W	531010	Professional Services	0	ProfSvc	0	0	0	0
337	3390W	531010	Professional Services	0	ProfSvc	0	0	0	0
338	3390W	531010	Professional Services	0	ProfSvc	0	0	0	0
339	3390W	531010	Professional Services	0	ProfSvc	0	0	0	0
340	3390W	531010	Professional Services	0	ProfSvc	0	0	0	0
341	3390W	531030	Employee Physicals	1,750	Inflation	1,790	1,833	1,877	1,922
342	3390W	531040	Legal Services	0	Inflation	0	0	0	0
343	3390W	531050	Filing and Lien Recording Fees	0	Inflation	0	0	0	0
344	3390W	532000	Accounting and Auditing	37,514	Inflation	38,377	39,298	40,241	41,207
345	3390W	534010	Outside Services	154,500	ProfSvc	159,135	163,909	168,826	173,891
346	3390W	534010	Outside Services	0	ProfSvc	0	0	0	0
347	3390W	534010	Outside Services	0	ProfSvc	0	0	0	0
348	3390W	534010	Outside Services	0	ProfSvc	0	0	0	0
349	3390W	534010	Outside Services	0	ProfSvc	0	0	0	0
350	3390W	534040	Special Events	0	Inflation	0	0	0	0
351	3390W	539055	Credit Card Fees	0	Inflation	0	0	0	0
352	3390W	541010	Phone and Communications	0	Inflation	0	0	0	0
353	3390W	542000	Postage and Freight	12,186	Inflation	12,466	12,765	13,072	13,386
354	3390W	543010	Electricity	0	Utility	0	0	0	0
355	3390W	543020	Water and Sewer	60,564	Utility	63,592	66,772	70,110	73,616
356	3390W	544010	Uniforms	0	Inflation	0	0	0	0
357	3390W	544030	Equipment Rental	0	Inflation	0	0	0	0
358	3390W	544070	Lease - Bus / FEC Railroad	3,200	Inflation	3,274	3,352	3,433	3,515
359	3390W	545010	Property Insurance Premium	160,000	Ins-Property	164,800	169,744	174,836	180,081
360	3390W	546020	Communication Equipment	0	Inflation	0	0	0	0
361	3390W	546050	Computer Hardware Maintenance	0	Inflation	0	0	0	0
362	3390W	546060	Computer Software Maintenance	21,293	Inflation	21,783	22,306	22,841	23,389
363	3390W	546070	Equipment Maintenance Agreements	0	Repair	0	0	0	0
364	3390W	546080	Infrastructure Maintenance	0	Repair	0	0	0	0
365	3390W	546090	Office Equipment	0	Inflation	0	0	0	0
366	3390W	547000	Printing and Binding	25,000	Inflation	25,575	26,189	26,817	27,461
367	3390W	548010	Advertising	850	Inflation	870	890	912	934
368	3390W	549970	Contingencies	0	Eliminate	0	0	0	0
369	3390W	549980	Grant Match Expenditures	0	Inflation	0	0	0	0
370	3390W	549990	Working Reserves	0	Eliminate	0	0	0	0
371	3390W	551000	Office Supplies	0	Inflation	0	0	0	0
372	3390W	552010	Specialized Supplies	0	Inflation	0	0	0	0
373	3390W	552020	Meter Boxes	0	Inflation	0	0	0	0
374	3390W	552030	Equipment and Tools	0	Repair	0	0	0	0
375	3390W	552050	Medical Supplies	0	Inflation	0	0	0	0
376	3390W	552060	Chemicals	0	Chemical	0	0	0	0
377	3390W	552070	Small Furniture and Fixtures	0	Inflation	0	0	0	0
378	3390W	552080	Traffic Control / Signs	0	Inflation	0	0	0	0
379	3390W	552090	Horticultural / Beautification	20,500	Inflation	20,972	21,475	21,990	22,518
380	3390W	552140	Diesel Fuel	0	Fuel	0	0	0	0
381	3390W	552150	Motor Vehicle Fuel	0	Fuel	0	0	0	0
382	3390W	552160	Grease, Oil, and Lubricants	0	Inflation	0	0	0	0
383	3390W	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
384	3390W	552180	Water Main Repair Parts	0	Repair	0	0	0	0
385	3390W	552200	Uniforms / Protective Clothing	0	Inflation	0	0	0	0
386	3390W	552210	Building Materials / Supplies	0	Inflation	0	0	0	0
387	3390W	552210	Building Materials / Supplies	0	Inflation	0	0	0	0
388	3390W	552230	CM Project / Program Supplies	0	Inflation	0	0	0	0
389	3390W	552250	Machinery Parts	0	Repair	0	0	0	0
390	3390W	552260	Water Meter / Hydrant Parts	0	Repair	0	0	0	0
391	3390W	552270	Hurricane Preparedness	0	Inflation	0	0	0	0
392	3390W	552280	Purchased Water	0	Inflation	0	0	0	0
393	3390W	552290	Cement	0	Inflation	0	0	0	0
394	3390W	552300	Drafting Supplies	0	Inflation	0	0	0	0
395	3390W	553010	Rock and Fill	0	Inflation	0	0	0	0
396	3390W	553020	Asphalt Paving Road Materials	0	Inflation	0	0	0	0
397	3390W	554010	Books and Publications	0	Inflation	0	0	0	0
398	3390W	554030	Dues and Memberships	0	Inflation	0	0	0	0
399	3390W	554040	Internet Subscriptions	44,767	Inflation	45,797	46,896	48,021	49,174
400	3390W	554040	Internet Subscriptions	0	Inflation	0	0	0	0
401	3390W	555010	Computer Training	0	Inflation	0	0	0	0
402	3390W	555020	Meetings and Seminars	0	Inflation	0	0	0	0

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
403	3390W	555030	Tuition Reimbursement	0	Inflation	0	0	0	0
404	3390W	555040	General Employee Training	20,000	Inflation	20,460	20,951	21,454	21,969
405	3390W	555060	License and Certification	0	Inflation	0	0	0	0
406	3390W	559010	Depreciation Expense	0	Eliminate	0	0	0	0
407	3390W	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
408	3390W	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
409	3390W	564070	Computer Equipment and Supplies	0	Eliminate	0	0	0	0
410	3390W	565000	Construction in Progress	0	Eliminate	0	0	0	0
411	3390W	565000	Construction in Progress	0	Eliminate	0	0	0	0
412	3390W	565000	Construction in Progress	0	Eliminate	0	0	0	0
413	3390W	565000	Construction in Progress	0	Eliminate	0	0	0	0
414	3390W	565000	Construction in Progress	0	Eliminate	0	0	0	0
415	3390W	565000	Construction in Progress	0	Eliminate	0	0	0	0
416	3390W	565000	Construction in Progress	0	Eliminate	0	0	0	0
417			Total Operating Services	\$697,124		\$717,940	\$739,601	\$761,949	\$785,006
418			Total Non-Departmental	\$787,124		\$810,640	\$835,082	\$860,295	\$886,302
	3395W		Renewal & Replacement						
			<u>Personnel Costs</u>						
419	3395W	512000	Regular Salaries and Wages	\$0	Personnel	\$0	\$0	\$0	\$0
420	3395W	513000	Other Salaries and Wages	0	Personnel	0	0	0	0
421	3395W	514000	Overtime Pay	0	Personnel	0	0	0	0
422	3395W	515150	Auto and Travel Allowances	0	Inflation	0	0	0	0
423	3395W	515200	Sick Leave Buyback	0	Personnel	0	0	0	0
424	3395W	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
425	3395W	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
426	3395W	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
427	3395W	515400	Tool Allowance	0	Inflation	0	0	0	0
428	3395W	515500	Sick Accrual Expense	0	Personnel	0	0	0	0
429	3395W	515550	Vacation Accrual Expense	0	Personnel	0	0	0	0
430	3395W	521050	Social Security	0	Personnel	0	0	0	0
431	3395W	521100	Medicare	0	Personnel	0	0	0	0
432	3395W	522150	Pensions - General Employees	0	Personnel	0	0	0	0
433	3395W	522200	Pensions - ICMA 401a	0	Personnel	0	0	0	0
434	3395W	522250	Pensions - OPEB	0	Personnel	0	0	0	0
435	3395W	522300	401a Match Program	0	Personnel	0	0	0	0
436	3395W	522350	Pensions - Retirement Health	0	Personnel	0	0	0	0
437	3395W	523050	Health Insurance	0	Ins-Health	0	0	0	0
438	3395W	523100	Dental Insurance	0	Ins-Health	0	0	0	0
439	3395W	523150	Life Insurance	0	Ins-Health	0	0	0	0
440	3395W	523200	Long-term Disability Insurance	0	Ins-Health	0	0	0	0
441	3395W	524000	Workers' Compensation	0	Worker Comp	0	0	0	0
442	3395W	525000	Unemployment Compensation Fee	0	Personnel	0	0	0	0
443			Total Personnel Costs	\$0		\$0	\$0	\$0	\$0
			<u>Operating Services</u>						
444	3395W	531010	Professional Services	\$0	Inflation	\$0	\$0	\$0	\$0
445	3395W	534010	Outside Services	0	Inflation	0	0	0	0
446	3395W	534010	Outside Services	0	Inflation	0	0	0	0
447	3395W	534010	Outside Services	0	Inflation	0	0	0	0
448	3395W	546080	Infrastructure Maintenance	0	Repair	0	0	0	0
449	3395W	552260	Water Meter / Hydrant Parts	0	Repair	0	0	0	0
450	3395W	559010	Depreciation Expense	0	Eliminate	0	0	0	0
451	3395W	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
452	3395W	565000	Construction in Progress	0	Eliminate	0	0	0	0
453	3395W	565000	Construction in Progress	0	Eliminate	0	0	0	0
454	3395W	565000	Construction in Progress	0	Eliminate	0	0	0	0
455	3395W	565000	Construction in Progress	0	Eliminate	0	0	0	0
456	3395W	565000	Construction in Progress	0	Eliminate	0	0	0	0
457			Total Operating Services	\$0		\$0	\$0	\$0	\$0
458			Total Renewal & Replacement	\$0		\$0	\$0	\$0	\$0
	3396W		Equipment Replacement						
			<u>Operating Services</u>						
459	3396W		Admin Charges to Fleet Services	\$274,844	Repair	\$283,089	\$291,582	\$300,329	\$309,339
460			Total Operating Services	\$274,844		\$283,089	\$291,582	\$300,329	\$309,339
461			Total Equipment Replacement	\$274,844		\$283,089	\$291,582	\$300,329	\$309,339

Table 1-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
462			Subtotal Water System	\$7,731,005		\$8,035,859	\$8,356,640	\$8,691,858	\$9,050,000
	8910W		Charges to Other Fund						
463	8910W	549001	Administrative Charge to the General Fund [3]	\$1,308,714	Personnel	\$987,652	\$1,017,281	\$1,047,800	\$1,079,234
464	8910W	549160	Administrative Charge to the Transportation	12,387	Personnel	12,759	13,141	13,536	13,942
465	8910W	549410	Administrative Charge to the Sanitation	13,824	Personnel	14,239	14,666	15,106	15,559
466	8910W	549440	Administrative Charge to the Stormwater	10,052	Personnel	10,354	10,664	10,984	11,314
467			Total Charges to Other Funds	\$1,344,977		\$1,025,002	\$1,055,753	\$1,087,425	\$1,120,048
	9008W		Transfers to Other Funds						
468	9008W	549110	10% Operating Reserve	\$0	Eliminate	\$0	\$0	\$0	\$0
469	9008W	549103	Transfer to Renewal and Replacement Fund	0	Eliminate	0	0	0	0
470	9008W	549801	Transfer to General Fund	0	Eliminate	0	0	0	0
471	9008W	549860	Transfer to Transportation	0	Eliminate	0	0	0	0
472	9008W	549880	Transfer to Capital Projects	0	Eliminate	0	0	0	0
473	9008W	549890	Transfer to General Liability	0	Ins-Property	0	0	0	0
474	9008W	549891	Transfer to Impact Fee	0	Eliminate	0	0	0	0
475			Total Transfers to Other Funds	\$0		\$0	\$0	\$0	\$0
	2023EW		Developer Agreement - Village of Gulfstream						
476	2023EW	565000	Construction in Progress	\$0	Eliminate	\$0	\$0	\$0	\$0
477			Total Developer Agreement - Village of Gulfstream	\$0		\$0	\$0	\$0	\$0
	2026GW		Developer Agreement - Wal-Mart						
478	2026GW	531000	Professional Services	\$0	Eliminate	\$0	\$0	\$0	\$0
479			Total Developer Agreement - Wal-Mart	\$0		\$0	\$0	\$0	\$0
			Other						
480		599000	Capital Reclassified as Operating Expense	\$0	Calculated	\$0	\$0	\$0	\$0
481			Contingency (1.00% of O&M) [4]	91,018	Calculated	90,871	94,398	98,654	102,594
482			Bad Debt (0.25% of Rate Revenues) [5]	25,828	Calculated	26,223	27,427	28,639	30,047
483			Additional Personnel Expenses	0	Calculated	0	0	57,500	59,300
484			Total Other Expenses	\$116,846		\$117,094	\$121,825	\$184,793	\$191,941
485			Total Water System	\$9,192,828		\$9,177,956	\$9,534,217	\$9,964,076	\$10,361,988
486			Annual Percent Change	N/A		(0.16%)	3.88%	4.51%	3.99%

Footnotes:

- [1] Amounts derived from Table 1-7 as allocated to the water system.
[2] Escalation attributes and factors derived from Table 1-11.
[3] General Fund Transfer reduced in 2019 due to discussions with City Staff on cost allocation changes.
[4] Amount based on 1.00% of annual expenses to allow for unforeseen expenses.
[5] Amount based on 0.25% of annual revenues to allow for uncollectible accounts.

Table 1-10
City of Hallandale Beach, Florida
Utility Rate Study

Projected Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
	3510S		Sewer Collection Administration						
			<u>Personnel Costs</u>						
1	3510S	512000	Regular Salaries and Wages	\$614,255	Personnel	\$632,683	\$651,663	\$671,213	\$691,349
2	3510S	514000	Overtime Pay	30,000	Personnel	30,900	31,827	32,782	33,765
3	3510S	515150	Auto and Travel Allowances	0	Inflation	0	0	0	0
4	3510S	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
5	3510S	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
6	3510S	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
7	3510S	521050	Social Security	35,099	Personnel	36,152	37,237	38,354	39,504
8	3510S	521100	Medicare	8,301	Personnel	8,550	8,807	9,071	9,343
9	3510S	522150	Pensions - General Employees	134,644	Personnel	138,683	142,844	147,129	151,543
10	3510S	522200	Pensions - ICMA 401a	25,233	Personnel	25,990	26,770	27,573	28,400
11	3510S	522250	Pensions - OPEB	0	Personnel	0	0	0	0
12	3510S	522300	401a Match Program	14,236	Personnel	14,663	15,103	15,556	16,023
13	3510S	522350	Pensions - Retirement Health	10,751	Personnel	11,074	11,406	11,748	12,100
14	3510S	523050	Health Insurance	156,723	Ins-Health	172,395	189,635	208,598	229,458
15	3510S	523100	Dental Insurance	1,169	Ins-Health	1,286	1,414	1,556	1,712
16	3510S	523150	Life Insurance	976	Ins-Health	1,074	1,181	1,299	1,429
17	3510S	523200	Long-term Disability Insurance	864	Ins-Health	950	1,045	1,150	1,265
18	3510S	524000	Workers' Compensation	5,937	Worker Comp	6,234	6,546	6,873	7,216
19			Total Personnel Costs	\$1,038,188		\$1,080,634	\$1,125,477	\$1,172,901	\$1,223,108
			<u>Operating Services</u>						
20	3510S	531010	Professional Services	\$15,000	ProfSvc	\$15,450	\$15,914	\$16,391	\$16,883
21	3510S	534010	Outside Services	56,000	ProfSvc	57,680	59,410	61,193	63,028
22	3510S	534040	Special Events	0	Inflation	0	0	0	0
23	3510S	541010	Phone and Communications	924	Inflation	945	968	991	1,015
24	3510S	543010	Electricity	96,000	Utility-S	102,445	109,333	116,482	124,718
25	3510S	543020	Water and Sewer	4,000	Utility-S	4,269	4,556	4,853	5,197
26	3510S	544010	Uniforms	3,273	Inflation	3,348	3,429	3,511	3,595
27	3510S	544030	Equipment Rental	1,000	Inflation	1,023	1,048	1,073	1,098
28	3510S	546070	Maintenance Agreements	50,000	Repair	51,500	53,045	54,636	56,275
29	3510S	546090	Office Equipment	0	Inflation	0	0	0	0
30	3510S	551000	Office Supplies	0	Inflation	0	0	0	0
31	3510S	552030	Equipment and Tools	10,000	Repair	10,300	10,609	10,927	11,255
32	3510S	552050	Medical Supplies	0	Inflation	0	0	0	0
33	3510S	552080	Traffic Control / Signs	3,000	Inflation	3,069	3,143	3,218	3,295
34	3510S	552140	Diesel Fuel	20,124	Fuel	21,130	22,187	23,296	24,461
35	3510S	552150	Motor Vehicle Fuel	9,000	Fuel	9,450	9,923	10,419	10,940
36	3510S	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
37	3510S	552200	Uniforms / Protective Clothing	3,600	Inflation	3,683	3,771	3,862	3,954
38	3510S	552210	Building Materials / Supplies	3,000	Inflation	3,069	3,143	3,218	3,295
39	3510S	552300	Drafting Supplies	0	Inflation	0	0	0	0
40	3510S	552250	Machinery Parts	35,000	Repair	36,050	37,132	38,245	39,393
41	3510S	552250	Machinery Parts	0	Repair	0	0	0	0
42	3510S	553010	Rock and Fill	1,500	Inflation	1,535	1,571	1,609	1,648
43	3510S	553020	Asphalt Paving Road Materials	4,000	Inflation	4,092	4,190	4,291	4,394
44	3510S	554010	Books and Publications	0	Inflation	0	0	0	0
45	3510S	554030	Dues and Memberships	0	Inflation	0	0	0	0
46	3510S	555020	Meetings and Seminars	0	Inflation	0	0	0	0
47	3510S	555040	General Employee Training	3,050	Inflation	3,120	3,195	3,272	3,350
48	3510S	555060	License and Certification	1,280	Inflation	1,309	1,341	1,373	1,406
49	3510S	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
50			Total Operating Services	\$319,751		\$333,467	\$347,905	\$362,860	\$379,201
51			Total Sewer Collection Administration	\$1,357,939		\$1,414,101	\$1,473,382	\$1,535,761	\$1,602,309
	3580S		<u>Debt Service</u>						
52	3580S	544020	Principal Series	\$0	Eliminate	\$0	\$0	\$0	\$0
53	3580S	571220	Principal - 2012 Chase Note	0	Eliminate	0	0	0	0
54	3580S	571225	Principal - Bond Series 2014	0	Eliminate	0	0	0	0
55	3580S	572200	Interest Series	0	Eliminate	0	0	0	0
56	3580S	572220	Interest - 2012 Chase Note	0	Eliminate	0	0	0	0
57	3580S	572225	Interest - Bond Series 2014	0	Eliminate	0	0	0	0
58	3580S	573160	Other Debt Service Costs - 2005A Bonds	0	Eliminate	0	0	0	0
59			Total Debt Service	\$0		\$0	\$0	\$0	\$0

Table 1-10
City of Hallandale Beach, Florida
Utility Rate Study

Projected Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
	3590S		Non-Departmental						
			<u>Personnel Costs</u>						
60	3590S	512000	Regular Salaries and Wages	\$0	Personnel	\$0	\$0	\$0	\$0
61	3590S	513050	Other Salaries and Wages	0	Personnel	0	0	0	0
62	3590S	514000	Overtime Pay	0	Personnel	0	0	0	0
63	3590S	515150	Auto and Travel Allowances	0	Personnel	0	0	0	0
64	3590S	515200	Sick Leave Buyback	0	Personnel	0	0	0	0
65	3590S	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
66	3590S	515300	Payouts - Sick Leave	5,000	Personnel	5,150	5,305	5,464	5,628
67	3590S	515350	Payouts - Vacation Pay	5,000	Personnel	5,150	5,305	5,464	5,628
68	3590S	515400	Tool Allowance	0	Personnel	0	0	0	0
69	3590S	515500	Sick Accrual Expense	0	Personnel	0	0	0	0
70	3590S	515550	Vacation Accrual Expense	0	Personnel	0	0	0	0
71	3590S	521050	Social Security	0	Personnel	0	0	0	0
72	3590S	521100	Medicare	0	Personnel	0	0	0	0
73	3590S	522150	Pensions - General Employees	0	Personnel	0	0	0	0
74	3590S	522200	Pensions - ICMA 401a	0	Personnel	0	0	0	0
75	3590S	522250	Pensions - OPEB	20,860	Personnel	21,486	22,130	22,794	23,478
76	3590S	522300	401a Match Program	0	Personnel	0	0	0	0
77	3590S	522350	Pensions - Retirement Health	0	Personnel	0	0	0	0
78	3590S	523050	Health Insurance	0	Ins-Health	0	0	0	0
79	3590S	523100	Dental Insurance	0	Ins-Health	0	0	0	0
80	3590S	523150	Life Insurance	0	Ins-Health	0	0	0	0
81	3590S	523200	Long-term Disability Insurance	0	Ins-Health	0	0	0	0
82	3590S	524000	Workers' Compensation	0	Worker Comp	0	0	0	0
83	3590S	525000	Unemployment Compensation Fee	0	Personnel	0	0	0	0
84			Total Personnel Costs	\$30,860		\$31,786	\$32,739	\$33,722	\$34,733
			<u>Operating Services</u>						
85	3590S	531010	Professional Services	\$0	Inflation	\$0	\$0	\$0	\$0
86	3590S	531030	Employee Physicals	1,750	Inflation	1,790	1,833	1,877	1,922
87	3590S	531040	Legal Services	0	Inflation	0	0	0	0
88	3590S	531050	Filing and Lien Recording Fees	0	Inflation	0	0	0	0
89	3590S	532000	Accounting and Auditing	0	Inflation	0	0	0	0
90	3590S	534010	Outside Services	0	Inflation	0	0	0	0
91	3590S	534010	Outside Services	0	Inflation	0	0	0	0
92	3590S	534010	Outside Services	0	Inflation	0	0	0	0
93	3590S	534040	Special Events	16,000	Inflation	16,368	16,761	17,163	17,575
94	3590S	539055	Credit Card Fees	0	Inflation	0	0	0	0
95	3590S	541010	Phone and Communications	0	Inflation	0	0	0	0
96	3590S	542000	Postage and Freight	11,100	Inflation	11,355	11,628	11,907	12,193
97	3590S	543010	Electricity	0	Inflation	0	0	0	0
98	3590S	543020	Water and Sewer	0	Inflation	0	0	0	0
99	3590S	543050	Wastewater Treatment [3]	9,453,500	Calculated	10,088,141	10,062,237	9,991,555	10,698,056
100	3590S	544010	Uniforms	0	Inflation	0	0	0	0
101	3590S	544030	Equipment Rental	0	Inflation	0	0	0	0
102	3590S	544070	Lease - Bus / FEC Railroad	0	Inflation	0	0	0	0
103	3590S	545010	Property Insurance Premium	0	Ins-Property	0	0	0	0
104	3590S	546020	Communication Equipment	0	Inflation	0	0	0	0
105	3590S	546050	Computer Hardware Maintenance	0	Inflation	0	0	0	0
106	3590S	546060	Computer Software Maintenance	0	Inflation	0	0	0	0
107	3590S	546070	Equipment Maintenance Agreements	0	Repair	0	0	0	0
108	3590S	546080	Infrastructure Maintenance	0	Repair	0	0	0	0
109	3590S	546090	Office Equipment	0	Inflation	0	0	0	0
110	3590S	547000	Printing and Binding	0	Inflation	0	0	0	0
111	3590S	548010	Advertising	850	Inflation	870	890	912	934
112	3590S	549970	Contingencies	0	Eliminate	0	0	0	0
113	3590S	549980	Grant Match Expenditures	0	Inflation	0	0	0	0
114	3590S	549990	Working Reserves	0	Eliminate	0	0	0	0
115	3590S	551000	Office Supplies	0	Inflation	0	0	0	0
116	3590S	552010	Specialized Supplies	0	Inflation	0	0	0	0
117	3590S	552020	Meter Boxes	0	Repair	0	0	0	0
118	3590S	552030	Equipment and Tools	0	Repair	0	0	0	0
119	3590S	552050	Medical Supplies	0	Inflation	0	0	0	0
120	3590S	552060	Chemicals	0	Chem-S	0	0	0	0
121	3590S	552070	Small Furniture and Fixtures	0	Inflation	0	0	0	0
122	3590S	552080	Traffic Control / Signs	0	Inflation	0	0	0	0
123	3590S	552090	Horticultural / Beautification	18,500	Inflation	18,926	19,380	19,845	20,321
124	3590S	552140	Diesel Fuel	0	Fuel	0	0	0	0
125	3590S	552150	Motor Vehicle Fuel	0	Fuel	0	0	0	0
126	3590S	552160	Grease, Oil, and Lubricants	0	Inflation	0	0	0	0
127	3590S	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
128	3590S	552180	Water Main Repair Parts	0	Repair	0	0	0	0
129	3590S	552200	Uniforms / Protective Clothing	0	Inflation	0	0	0	0

Table 1-10
City of Hallandale Beach, Florida
Utility Rate Study

Projected Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
130	3590S	552210	Building Materials / Supplies	0	Inflation	0	0	0	0
131	3590S	552230	CM Project / Program Supplies	0	Inflation	0	0	0	0
132	3590S	552250	Machinery Parts	0	Repair	0	0	0	0
133	3590S	552270	Hurricane Preparedness	0	Inflation	0	0	0	0
134	3590S	552290	Cement	0	Inflation	0	0	0	0
135	3590S	552300	Drafting Supplies	0	Inflation	0	0	0	0
136	3590S	553010	Rock and Fill	0	Inflation	0	0	0	0
137	3590S	553020	Asphalt Paving Road Materials	0	Inflation	0	0	0	0
138	3590S	554010	Books and Publications	0	Inflation	0	0	0	0
139	3590S	554030	Dues and Memberships	0	Inflation	0	0	0	0
140	3590S	554040	Internet Subscriptions	0	Inflation	0	0	0	0
141	3590S	555010	Computer Training	0	Inflation	0	0	0	0
142	3590S	555020	Meetings and Seminars	0	Inflation	0	0	0	0
143	3590S	555030	Tuition Reimbursement	0	Inflation	0	0	0	0
144	3590S	555040	General Employee Training	0	Inflation	0	0	0	0
145	3590S	555060	License and Certification	0	Inflation	0	0	0	0
146	3590S	559010	Depreciation Expense	0	Eliminate	0	0	0	0
147	3590S	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
148	3590S	564070	Computer Equipment and Supplies	0	Eliminate	0	0	0	0
149	3590S	565000	Construction in Progress	0	Eliminate	0	0	0	0
150	3590S	565000	Construction in Progress	0	Eliminate	0	0	0	0
151	3590S	565000	Construction in Progress	0	Eliminate	0	0	0	0
152			Total Operating Services	\$9,501,700		\$10,137,449	\$10,112,729	\$10,043,259	\$10,751,001
153			Total Non-Departmental	\$9,532,560		\$10,169,235	\$10,145,469	\$10,076,980	\$10,785,734
	3595S		Renewal & Replacement						
			<u>Personnel Costs</u>						
154	3595S	512000	Regular Salaries and Wages	\$0	Personnel	\$0	\$0	\$0	\$0
155	3595S	513050	Other Salaries and Wages	0	Personnel	0	0	0	0
156	3595S	514000	Overtime Pay	0	Personnel	0	0	0	0
157	3595S	515150	Auto and Travel Allowances	0	Personnel	0	0	0	0
158	3595S	515200	Sick Leave Buyback	0	Personnel	0	0	0	0
159	3595S	515250	Payouts - Civil Service	0	Personnel	0	0	0	0
160	3595S	515300	Payouts - Sick Leave	0	Personnel	0	0	0	0
161	3595S	515350	Payouts - Vacation Pay	0	Personnel	0	0	0	0
162	3595S	515400	Tool Allowance	0	Personnel	0	0	0	0
163	3595S	515500	Sick Accrual Expense	0	Personnel	0	0	0	0
164	3595S	515550	Vacation Accrual Expense	0	Personnel	0	0	0	0
165	3595S	521050	Social Security	0	Personnel	0	0	0	0
166	3595S	521100	Medicare	0	Personnel	0	0	0	0
167	3595S	522150	Pensions - General Employees	0	Personnel	0	0	0	0
168	3595S	522200	Pensions - ICMA 401a	0	Personnel	0	0	0	0
169	3595S	522250	Pensions - OPEB	0	Personnel	0	0	0	0
170	3595S	522300	401a Match Program	0	Personnel	0	0	0	0
171	3595S	522350	Pensions - Retirement Health	0	Personnel	0	0	0	0
172	3595S	523050	Health Insurance	0	Ins-Health	0	0	0	0
173	3595S	523100	Dental Insurance	0	Ins-Health	0	0	0	0
174	3595S	523150	Life Insurance	0	Ins-Health	0	0	0	0
175	3595S	523200	Long-term Disability Insurance	0	Ins-Health	0	0	0	0
176	3595S	524000	Workers' Compensation	0	Worker Comp	0	0	0	0
177	3595S	525000	Unemployment Compensation Fee	0	Personnel	0	0	0	0
178			Total Personnel Costs	\$0		\$0	\$0	\$0	\$0

Table 1-10
City of Hallandale Beach, Florida
Utility Rate Study

Projected Wastewater Operating Expenses

Line No.	Department Code	Object Codes	Description	Adjusted [1] 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
						2019	2020	2021	2022
<u>Operating Services</u>									
179	3595S	531010	Professional Services	\$0	Inflation	\$0	\$0	\$0	\$0
180	3595S	534010	Outside Services	0	Inflation	0	0	0	0
181	3595S	552170	Computer Equipment and Supplies	0	Inflation	0	0	0	0
182	3595S	563070	Sewer Lines	0	Eliminate	0	0	0	0
183	3595S	564040	Machinery and Equipment	0	Eliminate	0	0	0	0
184	3595S	565000	Construction in Progress	0	Eliminate	0	0	0	0
185	3595S	565000	Construction in Progress	0	Eliminate	0	0	0	0
186	3595S	565000	Construction in Progress	0	Eliminate	0	0	0	0
187			Total Operating Services	\$0		\$0	\$0	\$0	\$0
188			Total Renewal & Replacement	\$0		\$0	\$0	\$0	\$0
<u>Equipment Replacement</u>									
<u>Operating Services</u>									
189	3596S	549530	Admin Charges to Fleet Services	\$381,784	Repair	\$393,238	\$405,035	\$417,186	\$429,701
190			Total Operating Services	\$381,784		\$393,238	\$405,035	\$417,186	\$429,701
191			Total Equipment Replacement	\$381,784		\$393,238	\$405,035	\$417,186	\$429,701
192			Subtotal Sewer System	\$11,272,283		\$11,976,573	\$12,023,885	\$12,029,927	\$12,817,744
<u>SRF Loan WW0061720</u>									
<u>Operating Services</u>									
193	3596S	531010	Professional Services	\$0	Inflation	\$0	\$0	\$0	\$0
194			Total Operating Services	\$0		\$0	\$0	\$0	\$0
195			Total SRF Loan WW0061720	\$0		\$0	\$0	\$0	\$0
<u>Charges to Other Fund</u>									
196	8912S	549001	Administrative Transfer to the General Fund [4]	\$1,098,347	Personnel	\$560,513	\$577,328	\$594,648	\$612,488
197	8912S	549160	Administrative Transfer to the Transportation	874	Personnel	900	927	955	984
198	8912S	549410	Administrative Transfer to the Sanitation	61,860	Personnel	63,716	65,627	67,596	69,624
199	8912S	549440	Administrative Transfer to the Stormwater	11,489	Personnel	11,834	12,189	12,554	12,931
200			Total Charges to Other Funds	\$1,172,570		\$636,963	\$656,072	\$675,754	\$696,026
<u>Transfers to Other Funds</u>									
201	9010S	549110	10% Operating Reserve	\$1,000,000	Constant	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
201	9010S	549103	Transfer to Renewal and Replacement Fund	0	Eliminate	0	0	0	0
202	9010S	549801	Transfer to General Fund	0	Eliminate	0	0	0	0
203	9010S	549860	Transfer to Transportation	0	Eliminate	0	0	0	0
204	9010S	549880	Transfer to Capital Projects	0	Eliminate	0	0	0	0
205	9010S	549890	Transfer to General Liability	0	Ins-Property	0	0	0	0
206	9010S	549891	Transfer to Impact Fee	0	Eliminate	0	0	0	0
207			Total Transfers to Other Funds	\$1,000,000		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000
<u>Other</u>									
208	599000		Capital Reclassified as Operating Expense	\$0	Calculated	\$0	\$0	\$0	\$0
209			Contingency (1.00% of O&M) [5]	134,802	Calculated	136,495	137,172	137,443	145,539
210			Bad Debt (0.25% of Rate Revenues) [6]	35,391	Calculated	35,969	37,290	38,594	40,142
211			Additional Personnel Expenses	0	Calculated	0	0	0	0
212			Total Other Expenses	\$170,194		\$172,464	\$174,463	\$176,037	\$185,681
213			Total Sewer System	\$13,615,047		\$13,785,999	\$13,854,420	\$13,881,718	\$14,699,452
			Annual Percent Change	N/A		1.26%	0.50%	0.20%	5.89%

Footnotes:

- [1] Amounts derived from Table 1-8 as allocated to the water system.
- [2] Escalation attributes and factors derived from Table 1-11.
- [3] Amounts derived from Table 1-13.
- [4] General Fund Transfer reduced in 2019 due to discussions with City Staff on cost allocation changes.
- [5] Amount based on 1.00% of annual expenses to allow for unforeseen expenses.
- [6] Amount based on 0.25% of annual revenues to allow for uncollectible accounts.

Table 1-11
City of Hallandale Beach, Florida
Utility Rate Study

Summary of Projected Water and Wastewater System Expense Escalation Factors

Line No.	Description	Escalation Reference	Projected Fiscal Year Ending September 30,			
			2019	2020	2021	2022
1	Constant	Constant	1.0000	1.0000	1.0000	1.0000
2	General Inflation (CPI-U Index) [1]	Inflation	1.0230	1.0240	1.0240	1.0240
3	Labor and Benefits Escalator	Personnel	1.0300	1.0300	1.0300	1.0300
4	Customer Acct. Growth + Inflation (Water)	Cust-Water	1.0883	1.0869	1.0777	1.0937
5	Customer Acct. Growth + Inflation (Sewer)	Cust-Sewer	1.0953	1.0931	1.0827	1.0999
6	Rate Revenue - Water	Water Rev	1.0153	1.0459	1.0442	1.0491
7	Rate Revenue - Sewer	Sewer Rev	1.0163	1.0367	1.0350	1.0401
8	Flow Growth + Inflation (Water)	Water Flow	1.0363	1.0375	1.0361	1.0403
9	Flow Growth + Inflation (Sewer)	Sewer Flow	1.0397	1.0408	1.0390	1.0442
10	Electric Utility Costs	Utility	1.0500	1.0500	1.0500	1.0500
11	Flow Growth + Utility Costs (Water)	Utility-W	1.0637	1.0638	1.0624	1.0667
12	Flow Growth + Utility Costs (Sewer)	Utility-S	1.0671	1.0672	1.0654	1.0707
13	Chemical Costs	Chemical	1.0500	1.0500	1.0500	1.0500
14	Flow Growth + Chemicals (Water)	Chem-W	1.0637	1.0638	1.0624	1.0667
15	Flow Growth + Chemicals (Sewer)	Chem-S	1.0671	1.0672	1.0654	1.0707
16	Life/Health/Disability Insurance Escalator	Ins-Health	1.1000	1.1000	1.1000	1.1000
17	Workers' Compensation	Worker Comp	1.0500	1.0500	1.0500	1.0500
18	Property Insurance Escalator	Ins-Property	1.0300	1.0300	1.0300	1.0300
19	Repair and Maintenance	Repair	1.0300	1.0300	1.0300	1.0300
20	Marginal Escalator	Margin	1.0100	1.0100	1.0100	1.0100
21	Eliminate	Eliminate	0.0000	0.0000	0.0000	0.0000
22	Fuel	Fuel	1.0500	1.0500	1.0500	1.0500
23	Water Flows	Wflow	1.0130	1.0132	1.0118	1.0159
24	Wastewater Flows	Sflow	1.0163	1.0164	1.0147	1.0197
25	Change in Growth in Water Accounts [2]	WCustGrowth	7.2459	1.0226	0.9071	1.3659
26	Change in Growth in Sewer Accounts [2]	SCustGrowth	7.2459	1.0226	0.9071	1.3659
27	Professional Services	ProfSvc	1.0300	1.0300	1.0300	1.0300
28	Bulk Water	Bulk Water	1.0637	1.0638	1.0624	1.0667

Footnotes:

[1] Inflation figures obtained from the "The Budget and Economic Outlook: An Update" published by the Congressional Budget Office as of June 2017.

[2] Factors shown are based on the change in the growth rate of the respective account type.

Table 1-12
City of Hallandale Beach, Florida
Utility Rate Study

Allocation References

Line No.	Description	Basis	Fiscal Year 2018		Combined Total
			Water System	Wastewater System	
1	Direct Water System	Direct-W	100.00%	0.00%	100.00%
2	Direct Wastewater System	Direct-S	0.00%	100.00%	100.00%
3	Equal	Equal	50.00%	50.00%	100.00%
4	Total Personnel Expense	Personnel	81.11%	18.89%	100.00%
5	Operating Expenses	Expenses	40.31%	59.69%	100.00%
6	Customer Accounts	Accounts	53.81%	46.19%	100.00%
7	Rate Revenues	Revenues	42.19%	57.81%	100.00%

Derivation of Allocation References

		Water System	Wastewater System	Combined Total
	<u>Personnel Expense</u>			
8	Water Administration	\$1,230,925	\$0	\$1,230,925
9	Water Production	1,253,253	0	1,253,253
10	Transmission and Distribution	1,135,669	0	1,135,669
11	Utility Billing Division	636,861	0	636,861
12	Plant Maintenance	242,681	0	242,681
13	Non-Departmental	90,000	30,860	120,860
14	Renewal & Replacement	0	0	0
15	Sewer Collection Administration	0	1,038,188	1,038,188
16	Total Personnel Expense - 2018	\$4,589,389	\$1,069,048	\$5,658,437
17	Personnel Expense Allocation	81.11%	18.89%	100.00%
18	Operating Expenses - 2018	\$9,192,828	\$13,615,047	\$22,807,874
19	Operating Expense Allocation	40.31%	59.69%	100.00%
20	Customer Accounts - 2018	6,922	5,942	12,864
21	Customer Accounts Allocation	53.81%	46.19%	100.00%
22	Rate Revenues - 2018	\$10,331,037	\$14,156,442	\$24,487,479
23	Rate Revenues Allocation	42.19%	57.81%	100.00%

Table 1-13
City of Hallandale Beach, Florida
Utility Rate Study

Projected Bulk Sewer Purchase Costs

Line No.	Description	Actual 2017	Budgeted [1] 2018	Projected Fiscal Year Ending September 30, [2]			
				2019	2020	2021	2022
<u>Hollywood Bulk Sewer Purchases</u>							
1	Wastewater Revenue Gallons - Est. Metered Sales	1,619,239	1,622,894	1,649,374	1,676,454	1,701,018	1,734,568
2	Projected Infiltration and Inflow	951,685	953,833	969,396	985,312	999,749	1,019,468
3	Percent of Purchases	37%	37%	37%	37%	37%	37%
4	Projected Increase in Sewer Flow	NA	0.23%	1.63%	1.64%	1.47%	1.97%
5	Thousands of Gallons Purchased	2,570,924	2,576,726	2,618,771	2,661,767	2,700,767	2,754,036
6	MGD Purchased	7.044	7.060	7.175	7.293	7.399	7.545
7	Cost per Thousand Gallons	\$3.25	\$3.50	\$3.68	\$3.86	\$4.05	\$4.25
8	% Annual Cost Increase	NA	7.69%	5.00%	5.00%	5.00%	5.00%
9	Total Bulk Sewer Flow Cost	<u>\$8,355,502</u>	<u>\$9,018,542</u>	<u>\$9,623,983</u>	<u>\$10,271,092</u>	<u>\$10,942,664</u>	<u>\$11,716,418</u>
10	Annual % Increase in Bulk Sewer Flow Costs		7.94%	6.71%	6.72%	6.54%	7.07%
<u>Savings Based on Reducing I&I</u>							
11	Infiltration and Inflow	951,685	953,833	969,396	985,312	999,749	1,019,468
12	Projected I&I Percentage After Improvements	37%	37%	37%	30%	24%	24%
13	Reduction in Infiltration and Inflow	<u>0</u>	<u>0</u>	<u>0</u>	182,500	365,000	372,199
14	Incremental Savings Rate per Thousand Gallons	<u>NA</u>	<u>\$3.50</u>	<u>\$3.68</u>	<u>\$3.86</u>	<u>\$4.05</u>	<u>\$4.25</u>
15	Less Savings Based on Reducing I&I	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	\$704,222	\$1,478,866	\$1,583,436
16	Other Adjustments - True Up Payments / Other	\$83,045	\$434,958	\$464,158	\$495,367	\$527,757	\$565,074
17	Total Bulk Sewer Purchased Cost	<u><u>\$8,438,547</u></u>	<u><u>\$9,453,500</u></u>	<u><u>\$10,088,141</u></u>	<u><u>\$10,062,237</u></u>	<u><u>\$9,991,555</u></u>	<u><u>\$10,698,056</u></u>
18	Total Annual % Increase	<u>NA</u>	<u>12.03%</u>	<u>6.71%</u>	<u>(0.26%)</u>	<u>(0.70%)</u>	<u>7.07%</u>

Footnotes

[1] Fiscal Year 2018 Bulk Sewer Purchased Cost amount derived from the Adopted Fiscal Year 2018 Budget.

[2] Based on information provided by the City, I&I flows are anticipated to be reduced by approximately 1.0 MGD starting in 2020.

Table 1-14
City of Hallandale Beach, Florida
Utility Rate Study

Projected Capital Funding Program [1]

Line No.	Description	Project Number	System Allocation (%)		Escalation Factor	Funding Source	Projected Fiscal Years Ending September 30,					
			Water	Sewer			2018	2019	2020	2021	2022	Total
Capital Escalation												
1	No Assumed Escalation (0.0% per year)				None		1.0000	1.0000	1.0000	1.0000	1.0000	
2	Inflation (~2.4% per year)				Inflation		1.0000	1.0230	1.0476	1.0727	1.0984	
3	ENR Index Average (3.0% per year)				ENR		1.0000	1.0300	1.0609	1.0927	1.1255	
4	Marginal Increase (1.0% per year)				Marginal		1.0000	1.0100	1.0201	1.0303	1.0406	
5	High Increase (5.0% per year)				High		1.0000	1.0500	1.1025	1.1576	1.2155	
Utility Fund Capital Improvement Projects												
Water Capital Improvement Projects												
6	Water Distribution Upgrade	P1613	100%	0%	ENR	WREV2	\$606,320	\$0	\$0	\$0	\$0	\$606,320
7	Public Works - New Admin Master Plan	P1602	100%	0%	ENR	WREV2	100,000	0	0	0	0	100,000
8	NE 14th Ave. Enhanced Landscaping	P1605	100%	0%	ENR	WREV2	0	0	0	0	0	0
9	High Service Pumps and Transfer Pumps	P1606	100%	0%	ENR	W-OR	3,000,051	1,127,850	0	0	0	4,127,901
10	SW/SE Drainage Improvement	P1610	88%	12%	ENR	WREV2	16,632	0	0	0	0	16,632
11	Water Plant Scada Enhancement	P1503	100%	0%	ENR	WREV2	144,000	0	0	0	0	144,000
12	Hibiscus - Sunset Drive Water Main Interconnect	P1703	100%	0%	ENR	WREV2	25,000	0	0	0	0	25,000
13	Foster Road Water Main Upgrade	P1705	100%	0%	ENR	WREV2	100,000	0	0	0	0	100,000
14	WTP Infrastructure Assessment	P1706	100%	0%	ENR	WREV2	80,791	0	0	0	0	80,791
15	Water Plant Filtration System	P1707	100%	0%	ENR	WREV2	1,316,000	0	0	0	0	1,316,000
17	Medium Car (Administration)	1009	100%	0%	ENR	WREV2	24,597	0	0	0	0	24,597
18	Pickup - 1/2 Ton (Water Transmission)	900	100%	0%	ENR	WREV2	30,747	0	0	0	0	30,747
19	Pickup - 3/4 Ton (Water Transmission)	966	100%	0%	ENR	WREV2	36,896	0	0	0	0	36,896
20	Additional Vehicle Requests	N/A	100%	0%	ENR	WREV2	0	0	0	0	0	0
21	Water Main Insertion Valves - Citywide	N/A	100%	0%	ENR	W-RR	0	103,000	106,090	109,273	112,551	430,914
22	Water Plant Membranes Replacement	N/A	100%	0%	ENR	W-RR	0	721,000	0	0	0	721,000
23	Membrane Skids Influent Modulating Valve(s)	N/A	100%	0%	ENR	WREV2	0	360,500	0	0	0	360,500
24	Foster Road Water Main Upgrade	N/A	100%	0%	ENR	WREV2	0	978,500	0	0	0	978,500
25	Water Distribution Upgrades	N/A	100%	0%	ENR	W-RR	0	0	530,450	546,364	562,754	1,639,568
26	Water Treatment Plant Filtration	N/A	100%	0%	ENR	WREV2	0	515,000	530,450	546,364	0	1,591,814
27	Water Plant Membranes Replacement	N/A	100%	0%	ENR	WREV2	0	697,310	0	0	0	697,310
28	Water Plant Degasifier Packing Media	N/A	100%	0%	ENR	WREV2	0	128,750	0	0	0	128,750
29	Membrane Skid No. 3	N/A	100%	0%	ENR	WCF	0	0	0	0	0	0
30	Membrane Skid No. 3 (Split)	N/A	100%	0%	ENR	W-OR	0	0	0	0	0	0
31	Monitoring Well Instrumentation and Sampling	N/A	100%	0%	ENR	WREV2	0	41,200	0	0	0	41,200
32	Membrane and Generator Buildings AC Units	N/A	100%	0%	ENR	WREV2	0	57,680	0	0	0	57,680
33	Plant Site Lighting, Security and Signage Improvements	N/A	100%	0%	ENR	WREV2	0	511,910	0	0	0	511,910
34	WTP Security Risk Analysis	N/A	100%	0%	ENR	WREV2	0	0	282,199	0	0	282,199
35	Alternative Water Supply - Phase 1 (initial payment) from C-51	N/A	100%	0%	None	Debt3	0	0	0	2,600,000	0	2,600,000
36	Alternative Water Supply - Phase 1 (initial payment) from C-51 (Split)	N/A	100%	0%	None	WCF	0	0	0	2,000,000	0	2,000,000
37	Raw Water Well Nos. 3, 5, 7 and 8 Redevelopment	N/A	100%	0%	ENR	Debt3	0	0	606,835	0	0	606,835
38	Raw Water Well Nos. 3, 5, 7 and 8 Wellhead Upgrade	N/A	100%	0%	ENR	Debt3	0	0	951,627	0	0	951,627
39	Raw Water Well Nos. 3, 5, 7 and 8 Pump and Motor	N/A	100%	0%	ENR	Debt3	0	0	467,857	0	0	467,857
40	WTP Disinfection Improvements	N/A	100%	0%	ENR	Debt3	0	0	2,086,790	0	0	2,086,790
41	WTP Polymer Storage and Feed System	N/A	100%	0%	ENR	WREV2	0	0	0	187,949	0	187,949
42	WTP Sodium Hex Storage and Feed System	N/A	100%	0%	ENR	WREV2	0	0	0	187,949	0	187,949
43	WTP Filters 1-6 Filter Media	N/A	100%	0%	ENR	WREV2	0	0	0	557,291	0	557,291
44	WTP Filters 1-6 Underdrains	N/A	100%	0%	ENR	Debt3	0	0	0	1,055,574	0	1,055,574
45	WTP Filters 7-10 Filter Media	N/A	100%	0%	ENR	WREV2	0	0	0	371,527	0	371,527
46	WTP Filters 7-10 Underdrains	N/A	100%	0%	ENR	W-OR	0	0	0	956,136	0	956,136
47	Deep Injection Well Testing	N/A	100%	0%	ENR	WREV2	0	0	0	65,564	0	65,564
48	Membrane Building, Generator Building and Degasifier Structure Painting	N/A	100%	0%	ENR	WREV2	0	0	0	121,293	0	121,293
49	Lime Plant Air Compressor	N/A	100%	0%	ENR	WREV2	0	0	0	0	25,887	25,887

Table 1-14
City of Hallandale Beach, Florida
Utility Rate Study

Projected Capital Funding Program [1]

Line No.	Description	Project Number	System Allocation (%)		Escalation Factor	Funding Source	Projected Fiscal Years Ending September 30,					
			Water	Sewer			2018	2019	2020	2021	2022	Total
50	WTP Auxiliary Diesel Driven Pump and Fuel Storage	N/A	100%	0%	ENR	WREV2	0	0	0	0	389,426	389,426
51	WTP Pumps & Motors, Small (<5hp) (e.g., sump pumps, sampling pumps,	N/A	100%	0%	ENR	WREV2	0	0	0	0	22,510	22,510
52	Alternative Water Supply - Phase 2 (1 mgd) from C-51	N/A	100%	0%	None	Debt4	0	0	0	0	0	0
53	Public Works Complex Allocation	N/A	50%	50%	ENR	WREV2	0	0	0	109,273	67,531	176,803
54	Total Water Capital Improvement Projects						\$5,481,034	\$5,242,700	\$5,562,299	\$9,414,555	\$1,180,659	\$26,881,246
55	Water Departmental Capital Outlay		100%	0%	Inflation	WREV1	\$60,000	\$61,380	\$62,853	\$64,362	\$65,906	\$314,501
56	Total Water System Departmental Capital Outlay						\$60,000	\$61,380	\$62,853	\$64,362	\$65,906	\$314,501
57	Total Water Capital Improvement Projects						\$5,541,034	\$5,304,080	\$5,625,152	\$9,478,917	\$1,246,565	\$27,195,747
Sanitary Sewer Capital Improvement Projects												
58	SW/SE Drainage Improvement		88%	12%	ENR	SREV2	\$2,292	\$0	\$0	\$0	\$0	\$2,292
59	Foster Road Lift Station Backup Generator		0%	100%	ENR	SREV2	9,000	0	0	0	0	9,000
60	Lift Station Rehabilitation #8		0%	100%	ENR	Other	2,473,624	0	0	0	0	2,473,624
61	Lift Station Rehabilitation - Split Funding		0%	100%	ENR	SCF	526,376	0	0	0	0	526,376
62	Pickup - 3/4 Ton (Sewer)		0%	100%	ENR	SREV2	36,896	0	0	0	0	36,896
63	Trailer - Light (Sewer)		0%	100%	ENR	SREV2	18,000	0	0	0	0	18,000
64	Sewer Lift Stations Upgrades		0%	100%	ENR	Other	0	1,030,000	3,182,700	1,963,630	2,162,102	8,338,433
65	Sewer Pipes (Inflow and Infiltration) Rehabilitation		0%	100%	ENR	SREV2	32,000	321,000	342,630	364,909	387,856	1,448,395
66	Sewer Pipes (Inflow and Infiltration) Rehabilitation (Split)		0%	100%	ENR	S-RR	0	400,000	400,000	400,000	400,000	1,600,000
67	Sewer Force Mains Upgrades		0%	100%	ENR	Other	0	1,030,000	1,060,900	1,092,727	1,609,478	4,793,105
68	Gravity Line Upgrades		0%	100%	ENR	S-RR	0	0	238,703	245,864	0	484,566
69	Public Works Complex Allocation		50%	50%	ENR	SREV2	0	0	0	109,273	67,531	176,803
70	Additional Project 36		50%	50%	ENR	SREV2	0	0	0	0	0	0
71	Additional Project 37		50%	50%	ENR	SREV2	0	0	0	0	0	0
72	Additional Project 38		50%	50%	ENR	SREV2	0	0	0	0	0	0
73	Additional Project 39		50%	50%	ENR	SREV2	0	0	0	0	0	0
74	Total Sanitary Sewer Capital Improvement Projects						\$3,098,188	\$2,781,000	\$5,224,933	\$4,176,403	\$4,626,967	\$19,907,490
75	Sanitary Sewer Departmental Capital Outlay		0%	100%	Inflation	SREV1	\$50,000	\$51,150	\$52,378	\$53,635	\$54,922	\$262,084
76	Total Sanitary Sewer Departmental Capital Outlay						\$50,000	\$51,150	\$52,378	\$53,635	\$54,922	\$262,084
77	Total Sanitary Sewer Capital Improvement Projects						\$3,148,188	\$2,832,150	\$5,277,310	\$4,230,037	\$4,681,889	\$20,169,574
78	Total Utility Fund Capital Improvement Program						\$8,689,222	\$8,136,230	\$10,902,462	\$13,708,954	\$5,928,454	\$47,365,322

Table 1-14
City of Hallandale Beach, Florida
Utility Rate Study

Projected Capital Funding Program [1]

Line No.	Description	Project Number	System Allocation (%)		Escalation Factor	Funding Source	Projected Fiscal Years Ending September 30,					
			Water	Sewer			2018	2019	2020	2021	2022	Total
FUNDING SOURCES												
79	Operating Reserves - Water System					W-OR	\$3,000,051	\$1,127,850	\$0	\$956,136	\$0	\$5,084,037
80	Operating Reserves - Wastewater System					S-OR	0	0	0	0	0	0
81	Renewal and Replacement Fund - Water System					W-RR	0	824,000	636,540	655,636	675,305	2,791,481
82	Renewal and Replacement Fund - Wastewater System					S-RR	0	400,000	638,703	645,864	400,000	2,084,566
83	Rate Revenue - Water System (Recurring Capital)					WREV1	60,000	61,380	62,853	64,362	65,906	314,501
84	Rate Revenue - Water System (For all other lawful capital expenditures)					WREV2	2,480,983	3,290,850	812,649	2,147,209	505,353	9,237,044
85	Rate Revenue - Wastewater System (Recurring Capital)					SREV1	50,000	51,150	52,378	53,635	54,922	262,084
86	Rate Revenue - Wastewater System (For all other lawful capital expenditures)					SREV2	98,188	321,000	342,630	474,182	455,387	1,691,386
87	Water Impact Fees					WCF	0	0	0	2,000,000	0	2,000,000
88	Wastewater Impact Fees					SCF	526,376	0	0	0	0	526,376
89	Other Funding Sources / Proportionate Share Revenues					Other	2,473,624	2,060,000	4,243,600	3,056,357	3,771,580	15,605,161
90	Sewer Expansion Construction Fund					Construction	0	0	0	0	0	0
91	Additional Debt 1					Debt1	0	0	0	0	0	0
92	Additional Debt 2					Debt2	0	0	0	0	0	0
93	Additional Debt 3					Debt3	0	0	4,113,109	3,655,574	0	7,768,684
94	Additional Debt 4					Debt4	0	0	0	0	0	0
95	TOTAL FUNDING SOURCES						\$8,689,222	\$8,136,230	\$10,902,462	\$13,708,954	\$5,928,454	\$47,365,322

Footnotes:

[1] Amounts as provided by the City of Hallandale Beach, which were adjusted to anticipate increases in capital costs associated with inflation.

Table 1-15
City of Hallandale Beach, Florida
Utility Rate Study

Existing and Projected Debt Service Payments

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
EXISTING DEBT SERVICE [1]						
<u>2012 Chase Bank Loan</u>						
1	Total Annual Debt Service - Cash Basis	\$331,450	\$326,800	\$327,113	\$327,350	\$332,475
2	Percent Allocated to Water System	58.08%	58.08%	58.08%	58.08%	58.08%
3	Percent Allocated to Wastewater System	20.96%	20.96%	20.96%	20.96%	20.96%
4	Percent Allocated to Stormwater System	20.96%	20.96%	20.96%	20.96%	20.96%
5	Amount Allocated to Water System	\$192,506	\$189,805	\$189,987	\$190,125	\$193,101
6	Amount Allocated to Wastewater System	\$69,472	\$68,497	\$68,563	\$68,613	\$69,687
7	Amount Allocated to Stormwater System	\$69,472	\$68,497	\$68,563	\$68,613	\$69,687
<u>2014 BB&T Bank Loan</u>						
8	Total Annual Debt Service - Cash Basis	\$598,544	\$602,013	\$600,200	\$603,106	\$605,675
9	Percent Allocated to Water System	54.55%	54.55%	54.55%	54.55%	54.55%
10	Percent Allocated to Wastewater System	11.36%	11.36%	11.36%	11.36%	11.36%
11	Percent Allocated to Stormwater System	34.09%	34.09%	34.09%	34.09%	34.09%
12	Amount Allocated to Water System	\$326,506	\$328,398	\$327,409	\$328,994	\$330,396
13	Amount Allocated to Wastewater System	\$67,995	\$68,389	\$68,183	\$68,513	\$68,805
14	Amount Allocated to Stormwater System	\$204,044	\$205,226	\$204,608	\$205,599	\$206,475
<u>Clean Water SRF Loan WW061720</u>						
15	Total Annual Debt Service - Cash Basis	\$16,201	\$32,402	\$32,402	\$32,402	\$32,402
16	Percent Allocated to Water System	0.00%	0.00%	0.00%	0.00%	0.00%
17	Percent Allocated to Wastewater System	100.00%	100.00%	100.00%	100.00%	100.00%
18	Percent Allocated to Stormwater System	0.00%	0.00%	0.00%	0.00%	0.00%
19	Amount Allocated to Water System	\$0	\$0	\$0	\$0	\$0
20	Amount Allocated to Wastewater System	\$16,201	\$32,402	\$32,402	\$32,402	\$32,402
21	Amount Allocated to Stormwater System	\$0	\$0	\$0	\$0	\$0
TOTAL DEBT SERVICE - EXISTING DEBT						
22	Amount Allocated to Water System	\$519,012	\$518,203	\$517,396	\$519,119	\$523,497
23	Amount Allocated to Wastewater System	\$153,667	\$169,288	\$169,148	\$169,527	\$170,893
24	Amount Allocated to Stormwater System	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
25	Total Annual Debt Service	\$946,195	\$961,215	\$959,715	\$962,858	\$970,552
26	Percent Allocated to Water System	54.85%	53.91%	53.91%	53.91%	53.94%
27	Percent Allocated to Wastewater System	16.24%	17.61%	17.62%	17.61%	17.61%
28	Percent Allocated to Stormwater System	28.91%	28.48%	28.46%	28.48%	28.45%
29	Total	100.00%	100.00%	100.00%	100.00%	100.00%

Table 1-15
City of Hallandale Beach, Florida
Utility Rate Study

Existing and Projected Debt Service Payments

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
<u>PROPOSED DEBT SERVICE - ADDITIONAL DEBT</u>						
<u>Additional Debt 1</u>						
30	Annual Principal Payment - Accrual	\$0	\$0	\$0	\$0	\$0
31	Annual Interest Payment - Accrual	0	0	0	0	0
32	Total Annual Debt Service - Accrual	\$0	\$0	\$0	\$0	\$0
33	Percent Allocated to Water System	0.00%	0.00%	0.00%	0.00%	0.00%
34	Percent Allocated to Wastewater System	100.00%	100.00%	100.00%	100.00%	100.00%
35	Percent Allocated to Stormwater System	0.00%	0.00%	0.00%	0.00%	0.00%
36	Amount Allocated to Water System	\$0	\$0	\$0	\$0	\$0
37	Amount Allocated to Wastewater System	0	0	0	0	0
38	Amount Allocated to Stormwater System	0	0	0	0	0
<u>Additional Debt 2</u>						
39	Annual Principal Payment	\$0	\$0	\$0	\$0	\$0
40	Annual Interest Payment	0	0	0	0	0
41	Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0
42	Percent Allocated to Water System	0.00%	0.00%	0.00%	0.00%	0.00%
43	Percent Allocated to Wastewater System	100.00%	100.00%	100.00%	100.00%	100.00%
44	Percent Allocated to Stormwater System	0.00%	0.00%	0.00%	0.00%	0.00%
45	Amount Allocated to Water System	\$0	\$0	\$0	\$0	\$0
46	Amount Allocated to Wastewater System	0	0	0	0	0
47	Amount Allocated to Stormwater System	0	0	0	0	0
<u>Additional Debt 3</u>						
48	Annual Principal Payment	\$0	\$0	\$421,477	\$440,443	\$460,263
49	Annual Interest Payment	0	0	394,200	375,234	355,414
50	Total Annual Debt Service	\$0	\$0	\$815,677	\$815,677	\$815,677
51	Percent Allocated to Water System	100.00%	100.00%	100.00%	100.00%	100.00%
52	Percent Allocated to Wastewater System	0.00%	0.00%	0.00%	0.00%	0.00%
53	Percent Allocated to Stormwater System	0.00%	0.00%	0.00%	0.00%	0.00%
54	Amount Allocated to Water System	\$0	\$0	\$815,677	\$815,677	\$815,677
55	Amount Allocated to Wastewater System	0	0	0	0	0
56	Amount Allocated to Stormwater System	0	0	0	0	0
<u>Additional Debt 4</u>						
57	Annual Principal Payment	\$0	\$0	\$0	\$0	\$0
58	Annual Interest Payment	0	0	0	0	0
59	Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0
60	Percent Allocated to Water System	0.00%	0.00%	0.00%	0.00%	0.00%
61	Percent Allocated to Wastewater System	100.00%	100.00%	100.00%	100.00%	100.00%
62	Percent Allocated to Stormwater System	0.00%	0.00%	0.00%	0.00%	0.00%
63	Amount Allocated to Water System	\$0	\$0	\$0	\$0	\$0
64	Amount Allocated to Wastewater System	0	0	0	0	0
65	Amount Allocated to Stormwater System	0	0	0	0	0

Table 1-15
City of Hallandale Beach, Florida
Utility Rate Study

Existing and Projected Debt Service Payments

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
<u>TOTAL DEBT SERVICE - PROPOSED DEBT</u>						
66	Amount Allocated to Water System	\$0	\$0	\$815,677	\$815,677	\$815,677
67	Amount Allocated to Wastewater System	0	0	0	0	0
68	Percent Allocated to Stormwater System	0	0	0	0	0
69	Total Annual Debt Service	\$0	\$0	\$815,677	\$815,677	\$815,677
70	Percent Allocated to Water System	0.00%	0.00%	100.00%	100.00%	100.00%
71	Percent Allocated to Wastewater System	0.00%	0.00%	0.00%	0.00%	0.00%
72	Percent Allocated to Stormwater System	100.00%	100.00%	0.00%	0.00%	0.00%
<u>TOTAL DEBT SERVICE - EXISTING AND PROPOSED</u>						
73	Amount Allocated to Water System	\$519,012	\$518,203	\$1,333,073	\$1,334,796	\$1,339,174
74	Amount Allocated to Wastewater System	153,667	169,288	169,148	169,527	170,893
75	Amount Allocated to Stormwater System	273,515	273,723	273,171	274,211	276,161
76	Total Annual Debt Service	\$946,195	\$961,215	\$1,775,391	\$1,778,535	\$1,786,229
77	Percent Allocated to Water System	54.85%	53.91%	75.09%	75.05%	74.97%
78	Percent Allocated to Wastewater System	16.24%	17.61%	9.53%	9.53%	9.57%
79	Percent Allocated to Stormwater System	28.91%	28.48%	15.39%	15.42%	15.46%

Footnotes:

[1] Payment schedules as provided by the City on a cash basis.

Table 1-16
City of Hallandale Beach, Florida
Utility Rate Study

Projected Transfers to the Renewal and Replacement Fund

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
1	PRIOR REVENUE YEAR	2017	2018	2019	2020	2021
	WATER SYSTEM [1]					
	<u>Sales Revenues</u>					
2	Total Prior Year Rate Revenues	\$9,914,869	\$10,331,037	\$10,489,344	\$10,970,788	\$11,455,693
	<u>Other Revenues</u>					
3	Other Operating Revenues	\$896,571	\$932,904	\$1,351,093	\$1,374,320	\$1,342,514
4	Interest Income	14,526	38,000	29,000	25,000	23,000
5	Total Other Revenues	\$911,097	\$970,904	\$1,380,093	\$1,399,320	\$1,365,514
6	Total Water System Revenues	\$10,825,966	\$11,301,941	\$11,869,436	\$12,370,107	\$12,821,207
	<u>Renewal and Replacement Fund</u>					
7	Prior Year Ending Balance	\$2,866,431	\$2,866,431	\$2,042,431	\$1,405,891	\$750,255
8	Target Balance of 7.50% of Prior Year Revenues	\$811,947	\$847,646	\$890,208	\$927,758	\$961,591
9	Additional Required Deposit	\$0	\$0	\$0	\$0	\$886,641
10	Funding Deposit % (Prior Year Revenues)	0.00%	0.00%	0.00%	0.00%	6.92%
11	Calculated Deposit	\$0	\$0	\$0	\$0	\$886,641
12	Additional Adjustments	\$0	\$0	\$0	\$0	\$0
13	Total Water Deposit	\$0	\$0	\$0	\$0	\$886,641
	WASTEWATER SYSTEM [1]					
	<u>Sales Revenues</u>					
14	Total Prior Year Rate Revenues	\$12,129,359	\$14,156,442	\$14,387,507	\$14,916,194	\$15,437,619
	<u>Other Revenues</u>					
15	Other Operating Revenues	\$214,684	\$116,430	\$116,430	\$116,430	\$116,430
16	Interest Income	19,905	15,000	15,000	15,000	15,000
17	Total Other Revenues	\$234,590	\$131,430	\$131,430	\$131,430	\$131,430
18	Total Wastewater System Revenues	\$12,363,949	\$14,287,872	\$14,518,937	\$15,047,624	\$15,569,049
	<u>Renewal and Replacement Fund</u>					
19	Prior Year Ending Balance	\$3,384,801	\$3,384,801	\$2,984,801	\$2,346,099	\$1,700,235
20	Target Balance of 7.50% of Prior Year Revenues	\$927,296	\$1,071,590	\$1,088,920	\$1,128,572	\$1,167,679
21	Additional Required Deposit	\$0	\$0	\$0	\$0	\$0
22	Funding Target	0.00%	0.00%	0.00%	0.00%	0.00%
23	Calculated Deposit	\$0	\$0	\$0	\$0	\$0
24	Additional Deposits	\$0	\$0	\$0	\$0	\$0
25	Total Wastewater Deposit	\$0	\$0	\$0	\$0	\$0
26	TOTAL ANNUAL DEPOSIT	\$0	\$0	\$0	\$0	\$886,641

Footnotes:

[1] Amount of transfers derived from the Adopted Fiscal Year 2018 budget.

Table 1-17
City of Hallandale Beach, Florida
Utility Rate Study

Projected Intergovernmental Transfers

Line No.	Description	Budgeted 2018	Escalation Factor	Projected Fiscal Year Ending September 30,			
				2019	2020	2021	2022
INTERGOVERNMENTAL TRANSFERS							
<u>Water System [1]</u>							
1	Transfers to General Liability	\$111,600	Ins-Property	\$114,948	\$118,396	\$121,948	\$125,607
2	Total Transfers - Water System	<u>\$111,600</u>		<u>\$114,948</u>	<u>\$118,396</u>	<u>\$121,948</u>	<u>\$125,607</u>
<u>Wastewater System [1]</u>							
3	Transfers to General Liability	\$0	Ins-Property	\$0	\$0	\$0	\$0
4	Total Transfers - Wastewater System	<u>\$0</u>		<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
<u>Total Transfers</u>							
5	Transfers to General Liability	\$111,600		\$114,948	\$118,396	\$121,948	\$125,607
6	Total Transfers - Water and Wastewater Systems	<u><u>\$111,600</u></u>		<u><u>\$114,948</u></u>	<u><u>\$118,396</u></u>	<u><u>\$121,948</u></u>	<u><u>\$125,607</u></u>

Footnotes:

[1] Amount of transfers derived from the Adopted Fiscal Year 2018 budget.

Table 1-18
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Revenue Requirements

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
Projected Operating Expenses & Administrative Charges						
1	Operating Expenses & Administrative Charges [1]	\$9,192,828	\$9,177,956	\$9,534,217	\$9,964,076	\$10,361,988
2	Plus Additional Adjustments	0	0	0	0	0
3	Total Operating Expenses & Administrative Charges	\$9,192,828	\$9,177,956	\$9,534,217	\$9,964,076	\$10,361,988
Other Revenue Requirements						
Debt Service [2]						
4	Existing Debt Service	\$519,012	\$518,203	\$517,396	\$519,119	\$523,497
5	Proposed Debt Service	0	0	815,677	815,677	815,677
Less:						
6	Amount Paid by Impact Fees	0	0	0	0	0
7	Total Debt Service	\$519,012	\$518,203	\$1,333,073	\$1,334,796	\$1,339,174
8	Intragovernmental Administrative Transfers	\$111,600	\$114,948	\$118,396	\$121,948	\$125,607
9	Transfer to Renewals & Replacement Fund [3]	0	0	0	0	886,641
10	Capital Funded from Rates [4]	2,540,983	3,352,230	875,503	2,211,570	571,260
11	Operating Reserves - Deposits to/(Uses of)	0	0	0	0	0
12	Total Other Revenue Requirements	\$3,171,595	\$3,985,381	\$2,326,972	\$3,668,315	\$2,922,681
13	Gross Revenue Requirements	\$12,364,423	\$13,163,337	\$11,861,189	\$13,632,391	\$13,284,669
Less Income and Funds from Other Sources						
14	Other Operating Revenue [5]	\$932,904	\$1,351,093	\$1,374,320	\$1,342,514	\$1,515,687
15	Unrestricted Interest Income [6]	38,000	29,000	25,000	23,000	20,000
16	Sub-total Income and Funds from Other Sources	\$970,904	\$1,380,093	\$1,399,320	\$1,365,514	\$1,535,687
17	Net Revenue Requirements	\$11,393,519	\$11,783,244	\$10,461,870	\$12,266,877	\$11,748,982
Revenue from Water Rates						
18	Existing Rate Revenue [7]	\$10,331,037	\$10,489,344	\$10,651,250	\$10,798,132	\$10,998,774
19	Prior Year Rate Adjustments	0	0	0	323,900	669,800
20	Total Rate Revenue Before Current Year Adjustment	\$10,331,037	\$10,489,344	\$10,651,250	\$11,122,032	\$11,668,574
System-wide Rate Adjustments						
21	Current Year Rate Adjustment	0.00%	0.00%	3.00%	3.00%	3.00%
22	Effective Month	Oct.	Oct.	Oct.	Oct.	Oct.
23	% of Current Year Effective	100.00%	100.00%	100.00%	100.00%	100.00%
24	Total Revenue from Current Year Adjustments	\$0	\$0	\$319,538	\$333,661	\$350,057
25	Cumulative Rate Adjustments	0.00%	0.00%	3.00%	6.09%	9.27%
26	Total Revenue from Rates	\$10,331,037	\$10,489,344	\$10,970,788	\$11,455,693	\$12,018,631
27	Projected Surplus/(Deficiency)	(\$1,062,482)	(\$1,293,901)	\$508,918	(\$811,184)	\$269,649
28	Surplus/(Deficiency) - Percent of Rate Revenues	(10.28%)	(12.34%)	4.64%	(7.08%)	2.24%
<u>Projected Year-End Cash Balances</u>						
Description		Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
29	Operating Fund - Unrestricted	\$9,056,208	\$6,634,457	\$7,143,375	\$5,376,055	\$5,645,703
30	Reserve for Equipment - Unrestricted	929,604	929,604	929,604	929,604	929,604
31	Customer Deposits - Restricted	1,829,462	1,829,462	1,829,462	1,829,462	1,829,462
32	Renewal & Replacement Fund - Unrestricted	2,866,431	2,042,431	1,405,891	750,255	961,591
33	Future Construction Fund - Restricted	0	0	3,655,574	0	0
34	Impact Fee Fund - Restricted	440,684	981,805	1,536,202	38,449	722,813
35	Total Year-end Cash & Investments	\$15,122,388	\$12,417,759	\$16,500,108	\$8,923,824	\$10,089,172
36	Unrestricted Cash Days of Revenue - Target	120	120	120	120	120
37	Unrestricted Cash Days of Revenue - Calculated	454	334	315	225	229

Footnotes continued on the following page.

Table 1-18
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water Revenue Requirements

Footnotes:

-
- [1] Amounts derived from Table 1-9.
 [2] Amounts derived from Table 1-15.
 [3] Amounts derived from Table 1-16.
 [4] Amounts derived from Table 1-14 to pay for capital equipment, improvements and extensions as follows:.

	Fiscal Year Ending September 30,				
	2018	2019	2020	2021	2022
Revenues to Fund Recurring Capital	\$60,000	\$61,380	\$62,853	\$64,362	\$65,906
Revenues to Other Lawful Capital Expenditures	2,480,983	3,290,850	812,649	2,147,209	505,353
Total Capital Funded from Rates	\$2,540,983	\$3,352,230	\$875,503	\$2,211,570	\$571,260

- [5] Amounts derived from Table 1-5.
 [6] Amounts derived from Table 1-21.
 [7] Amounts derived from Table 1-3.

Table 1-19
City of Hallandale Beach, Florida
Utility Rate Study

Projected Wastewater Revenue Requirements

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
Projected Operating Expenses & Administrative Charges						
1	Operating Expenses & Administrative Charges [1]	\$13,615,047	\$13,785,999	\$13,854,420	\$13,881,718	\$14,699,452
2	Plus Additional Adjustments	0	0	0	0	0
3	Total Operating Expenses & Administrative Charges	\$13,615,047	\$13,785,999	\$13,854,420	\$13,881,718	\$14,699,452
<u>Other Revenue Requirements</u>						
Debt Service [2]						
4	Existing Debt Service	\$153,667	\$169,288	\$169,148	\$169,527	\$170,893
5	Proposed Debt Service	0	0	0	0	0
Less:						
6	Amount Paid by Impact Fees	0	0	0	0	0
7	Total Debt Service	\$153,667	\$169,288	\$169,148	\$169,527	\$170,893
8	Intragovernmental Administrative Transfers	\$0	\$0	\$0	\$0	\$0
9	Transfer to Renewals & Replacement Fund [3]	0	0	0	0	0
10	Capital Funded from Rates [4]	148,188	372,150	395,008	527,816	510,309
11	Operating Reserves - Deposits to/(Uses of)	0	0	0	0	0
12	Total Other Revenue Requirements	\$301,856	\$541,438	\$564,155	\$697,344	\$681,202
13	Gross Revenue Requirements	\$13,916,902	\$14,327,437	\$14,418,575	\$14,579,061	\$15,380,654
<u>Less Income and Funds from Other Sources</u>						
14	Other Operating Revenue [5]	\$116,430	\$116,430	\$116,430	\$116,430	\$116,430
15	Unrestricted Interest Income [6]	15,000	15,000	15,000	15,000	17,000
16	Sub-total Income and Funds from Other Sources	\$131,430	\$131,430	\$131,430	\$131,430	\$133,430
17	Net Revenue Requirements	\$13,785,472	\$14,196,007	\$14,287,145	\$14,447,631	\$15,247,224
Revenue from Wastewater Rates						
18	Existing Rate Revenue [7]	\$14,156,442	\$14,387,507	\$14,623,720	\$14,838,120	\$15,130,694
19	Prior Year Rate Adjustments	0	0	0	296,800	611,300
20	Total Rate Revenue Before Current Year Adjustment	\$14,156,442	\$14,387,507	\$14,623,720	\$15,134,920	\$15,741,994
<u>Current Year Rate Adjustments</u>						
21	Current Year Rate Adjustment	0.00%	0.00%	2.00%	2.00%	2.00%
22	Effective Month	Oct.	Oct.	Oct.	Oct.	Oct.
22	% of Current Year Effective	100.00%	100.00%	100.00%	100.00%	100.00%
23	Total Revenue from Current Year Adjustments	\$0	\$0	\$292,474	\$302,698	\$314,840
24	Cumulative Rate Adjustments	0.00%	0.00%	2.00%	4.04%	6.12%
25	Total Revenue from Rates	\$14,156,442	\$14,387,507	\$14,916,194	\$15,437,619	\$16,056,833
26	Projected Surplus/(Deficiency)	\$370,970	\$191,499	\$629,049	\$989,988	\$809,610
27	Surplus/(Deficiency) - Percent of Rate Revenues	2.62%	1.33%	4.22%	6.41%	5.04%
<u>Projected Year-End Cash Balances</u>						
		Projected Fiscal Year Ending September 30,				
	Description	2018	2019	2020	2021	2022
28	Operating Fund	\$2,790,762	\$2,982,261	\$3,611,311	\$4,601,298	\$5,410,908
29	Reserve for Equipment	188,993	188,993	188,993	188,993	188,993
30	Customer Deposits	0	0	0	0	0
31	Renewal & Replacement Fund	3,384,801	2,984,801	2,346,099	1,700,235	1,300,235
32	Future Construction Fund	0	0	0	0	0
33	Impact Fee Fund	14,718	755,569	1,514,665	2,206,354	3,149,614
34	Total Year-end Cash & Investments	\$6,379,273	\$6,911,625	\$7,661,068	\$8,696,880	\$10,049,749
35	Unrestricted Cash Days of Revenue - Minimum Target	120	120	120	120	120
36	Unrestricted Cash Days of Revenue - Calculated	164	156	150	153	157

Footnotes continued on the following page.

Table 1-19
City of Hallandale Beach, Florida
Utility Rate Study

Projected Wastewater Revenue Requirements

Footnotes:

-
- [1] Amounts derived from Table 1-10.
 [2] Amounts derived from Table 1-15.
 [3] Amounts derived from Table 1-16.
 [4] Amounts derived from Table 1-14 to pay for capital equipment, improvements and extensions as follows:.

	Fiscal Year Ending September 30,				
	2018	2019	2020	2021	2022
Revenues to Fund Recurring Capital	\$50,000	\$51,150	\$52,378	\$53,635	\$54,922
Revenues to Other Lawful Capital Expenditures	98,188	321,000	342,630	474,182	455,387
 Total Capital Funded from Rates	\$148,188	\$372,150	\$395,008	\$527,816	\$510,309

- [5] Amounts derived from Table 1-5.
 [6] Amounts derived from Table 1-22.
 [7] Amounts derived from Table 1-4.

Table 1-20
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water and Wastewater Revenue Requirements

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
Projected Operating Expenses & Administrative Charges						
1	Operating Expenses & Administrative Charges	\$22,807,874	\$22,963,955	\$23,388,637	\$23,845,794	\$25,061,440
2	Plus Additional Adjustments	0	0	0	0	0
3	Total Operating Expenses & Administrative Charges	\$22,807,874	\$22,963,955	\$23,388,637	\$23,845,794	\$25,061,440
Other Revenue Requirements						
Debt Service						
4	Existing Debt Service	\$672,679	\$687,491	\$686,544	\$688,647	\$694,391
5	Proposed Debt Service	0	0	815,677	815,677	815,677
Less:						
6	Amount Paid by Impact Fees	0	0	0	0	0
7	Total Debt Service	\$672,679	\$687,491	\$1,502,220	\$1,504,324	\$1,510,068
8	Intragovernmental Transfers	\$111,600	\$114,948	\$118,396	\$121,948	\$125,607
9	Transfer to Renewals & Replacement Fund	0	0	0	0	886,641
10	Capital Funded from Rates	2,689,171	3,724,380	1,270,510	2,739,386	1,081,568
11	Operating Reserves - Deposits to/(Uses of)	0	0	0	0	0
12	Total Other Revenue Requirements	\$3,473,450	\$4,526,819	\$2,891,127	\$4,365,658	\$3,603,883
13	Gross Revenue Requirements	\$26,281,325	\$27,490,774	\$26,279,764	\$28,211,452	\$28,665,323
Less Income and Funds from Other Sources:						
14	Other Operating Revenue	\$1,049,334	\$1,467,523	\$1,490,750	\$1,458,944	\$1,632,117
15	Unrestricted Interest Income	53,000	44,000	40,000	38,000	37,000
16	Sub-total Income and Funds from Other Sources	\$1,102,334	\$1,511,523	\$1,530,750	\$1,496,944	\$1,669,117
17	Net Revenue Requirements	\$25,178,991	\$25,979,252	\$24,749,014	\$26,714,508	\$26,996,206
Revenue from Water and Wastewater Rates						
18	Existing Rate Revenue	\$24,487,479	\$24,876,850	\$25,274,970	\$25,636,252	\$26,129,467
19	Prior Year Rate Adjustments	0	0	0	620,700	1,281,100
Total Rate Revenue Before Current						
20	Year Adjustment	\$24,487,479	\$24,876,850	\$25,274,970	\$26,256,952	\$27,410,567
21	Total Revenue from Current Year Adjustments	\$0	\$0	\$612,012	\$636,359	\$664,897
22	Total Revenue from Rates	\$24,487,479	\$24,876,850	\$25,886,982	\$26,893,312	\$28,075,464
23	Combined Rate Adjustment	0.00%	0.00%	2.42%	2.42%	2.43%
24	Projected Surplus/(Deficiency)	(\$691,512)	(\$1,102,401)	\$1,137,967	\$178,803	\$1,079,258
25	Surplus/(Deficiency) - Percent of Rate Revenues	(2.82%)	(4.43%)	4.40%	0.66%	3.84%
<u>Proposed Annual Rate and Bill Increases (System-wide)</u>						
		Fiscal Year Ending September 30,				
Description		2018	2019	2020	2021	2022
26	Water System (Includes Indexing Provision)	0.0%	0.0%	3.0%	3.0%	3.0%
27	Effective Month	Oct.	Oct.	Oct.	Oct.	Oct.
28	Wastewater System (Includes Indexing Provision)	0.0%	0.0%	2.0%	2.0%	2.0%
29	Effective Month	Oct.	Oct.	Oct.	Oct.	Oct.
<u>Projected Year-End Cash Balances</u>						
		Projected Fiscal Year Ending September 30,				
Description		2018	2019	2020	2021	2022
30	Operating Fund	\$11,846,970	\$9,616,719	\$10,754,686	\$9,977,353	\$11,056,611
31	Reserve for Equipment	1,118,597	1,118,597	1,118,597	1,118,597	1,118,597
32	Customer Deposits	1,829,462	1,829,462	1,829,462	1,829,462	1,829,462
33	Renewal & Replacement Fund	6,251,233	5,027,233	3,751,990	2,450,490	2,261,826
34	Future Construction Fund	0	0	3,655,574	0	0
35	Impact Fee Fund	455,401	1,737,374	3,050,867	2,244,803	3,872,426
36	Total Year-end Cash & Investments	\$21,501,662	\$19,329,384	\$24,161,176	\$17,620,705	\$20,138,921
37	Unrestricted Cash Days of Revenue - Minimum Target	120	120	120	120	120
38	Unrestricted Cash Days of Revenue - Calculated	286	231	220	184	188
39	Operating Fund Cash Days of Revenue - Calculated	177	141	152	135	144

Table 1-20
City of Hallandale Beach, Florida
Utility Rate Study

Projected Water and Wastewater Revenue Requirements

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
<u>Projected Debt Service Coverage</u>						
<u>All-In Debt Service Coverage</u>						
40	Coverage - Calculated	413.56%	498.10%	268.21%	302.09%	310.13%
41	Coverage - Minimum Target	150.00%	150.00%	150.00%	150.00%	150.00%
<u>Senior Lien Debt Service Coverage</u>						
42	Coverage - Calculated	423.77%	522.74%	274.12%	308.74%	316.93%
43	Coverage - Minimum Target	115.00%	115.00%	115.00%	115.00%	115.00%
<u>Subordinate Lien Debt Service Coverage - General</u>						
44	Coverage - Calculated	13119.31%	8546.78%	7898.51%	9482.56%	9892.83%
45	Coverage - Minimum Target	115.00%	115.00%	115.00%	115.00%	115.00%

Footnotes:

[1] Amounts derived from Table 1-18 and Table 1-19.

Table 1-21
City of Hallandale Beach, Florida
Utility Rate Study

Projected Available Water Fund Balances and Interest Earnings

Line No.	Description	Interest Income	Fiscal Year Ending September 30, [1]				
			2018	2019	2020	2021	2022
OPERATING FUND		(U)					
1	Beginning Balance		\$13,118,741	\$9,056,208	\$6,634,457	\$7,143,375	\$5,376,055
2	Transfers In - Rate Revenues		10,331,037	10,489,344	10,970,788	11,455,693	12,018,631
3	Transfers In - Reserve for Equipment		0	0	0	0	0
4	Transfers In - Payments from Wastewater		0	0	0	0	0
5	Transfers Out - Net Revenue Requirements		11,393,519	11,783,244	10,461,870	12,266,877	11,748,982
6	Transfers Out - Capital Improvements		3,000,051	1,127,850	0	956,136	0
7	Transfers Out - Reserve for Equipment		0	0	0	0	0
8	End of Year Transfers In (Out)		0	0	0	0	0
9	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
10	Interest Income		28,000	20,000	17,000	16,000	14,000
	Recognition of Interest Earnings						
11	in Revenue Requirements		28,000	20,000	17,000	16,000	14,000
12	Ending Balance		\$9,056,208	\$6,634,457	\$7,143,375	\$5,376,055	\$5,645,703
13	Percent Allocable to Water System		100.00%	100.00%	100.00%	100.00%	100.00%
14	Amount Allocable to Water System		\$28,000	\$20,000	\$17,000	\$16,000	\$14,000
15	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
RESERVE FOR EQUIPMENT		(U)					
16	Beginning Balance		\$929,604	\$929,604	\$929,604	\$929,604	\$929,604
17	Transfers In		0	0	0	0	0
18	Transfers Out		0	0	0	0	0
19	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
20	Interest Income		2,000	2,000	2,000	2,000	2,000
	Recognition of Interest Earnings						
21	in Revenue Requirements		2,000	2,000	2,000	2,000	2,000
22	Ending Balance		\$929,604	\$929,604	\$929,604	\$929,604	\$929,604
23	Percent Allocable to Water System		100.00%	100.00%	100.00%	100.00%	100.00%
24	Amount Allocable to Water System		\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
25	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
CUSTOMER DEPOSITS		(R)					
26	Beginning Balance		\$1,829,462	\$1,829,462	\$1,829,462	\$1,829,462	\$1,829,462
27	Transfers In		0	0	0	0	0
28	Transfers Out		0	0	0	0	0
29	Interest Rate		0.00%	0.00%	0.00%	0.00%	0.00%
30	Interest Income		0	0	0	0	0
	Recognition of Interest Earnings						
31	in Revenue Requirements		0	0	0	0	0
32	Ending Balance		\$1,829,462	\$1,829,462	\$1,829,462	\$1,829,462	\$1,829,462
33	Percent Allocable to Water System		100.00%	100.00%	100.00%	100.00%	100.00%
34	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
35	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
SINKING FUND		(U)					
	Sinking Fund Deposit:						
36	Existing Debt		\$519,012	\$518,203	\$517,396	\$519,119	\$523,497
37	Proposed Debt		0	0	815,677	815,677	815,677
38	Average Balance		\$259,506	\$259,102	\$666,536	\$667,398	\$669,587
39	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
40	Interest Income		\$1,000	\$1,000	\$2,000	\$2,000	\$2,000
	Recognition of Interest Earnings						
41	in Revenue Requirements		1,000	1,000	2,000	2,000	2,000
42	Percent Allocable to Water System		100.00%	100.00%	100.00%	100.00%	100.00%
43	Amount Allocable to Water System		\$1,000	\$1,000	\$2,000	\$2,000	\$2,000
44	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0

Table 1-21
City of Hallandale Beach, Florida
Utility Rate Study

Projected Available Water Fund Balances and Interest Earnings

Line No.	Description	Interest Income	Fiscal Year Ending September 30, [1]				
			2018	2019	2020	2021	2022
RESERVE FOR RENEWAL & REPLACEMENT		(U)					
45	Beginning Balance		\$2,866,431	\$2,866,431	\$2,042,431	\$1,405,891	\$750,255
46	Transfers In		0	0	0	0	886,641
47	Transfers In - Other		0	0	0	0	0
48	Transfers Out - CIP		0	824,000	636,540	655,636	675,305
49	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
50	Interest Income		7,000	6,000	4,000	3,000	2,000
	Recognition of Interest Earnings						
51	in Revenue Requirements		7,000	6,000	4,000	3,000	2,000
52	Ending Balance		\$2,866,431	\$2,042,431	\$1,405,891	\$750,255	\$961,591
53	Percent Allocable to Water System		100.00%	100.00%	100.00%	100.00%	100.00%
54	Amount Allocable to Water System		\$7,000	\$6,000	\$4,000	\$3,000	\$2,000
55	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
FUTURE CONSTRUCTION FUND		(R)					
56	Beginning Balance		\$0	\$0	\$0	\$3,655,574	\$0
57	Transfers In		0	0	7,768,684	0	0
58	Transfers Out		0	0	4,113,109	3,655,574	0
59	Interest Rate		0.00%	0.00%	0.00%	0.00%	0.00%
60	Interest Income		0	0	0	0	0
	Recognition of Interest Earnings						
61	in Revenue Requirements		0	0	0	0	0
62	Ending Balance		\$0	\$0	\$3,655,574	\$0	\$0
63	Percent Allocable to Water System		100.00%	100.00%	100.00%	100.00%	100.00%
64	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
65	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
IMPACT FEES		(R)					
66	Beginning Balance		\$357,179	\$440,684	\$981,805	\$1,536,202	\$38,449
67	Transfers In		82,504	539,121	551,397	500,247	683,364
68	Transfers Out - CIP & Debt Service Payments		0	0	0	2,000,000	0
69	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
70	Interest Income		1,000	2,000	3,000	2,000	1,000
	Recognition of Interest Earnings						
71	in Revenue Requirements		0	0	0	0	0
72	Ending Balance		\$440,684	\$981,805	\$1,536,202	\$38,449	\$722,813
73	Percent Allocable to Water System		100.00%	100.00%	100.00%	100.00%	100.00%
74	Amount Allocable to Water System		\$1,000	\$2,000	\$3,000	\$2,000	\$1,000
75	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
INTEREST INCOME							
Unrestricted							
76	Water System		\$38,000	\$29,000	\$25,000	\$23,000	\$20,000
77	Wastewater System		0	0	0	0	0
78	Total		\$38,000	\$29,000	\$25,000	\$23,000	\$20,000
Connection Fee Fund							
79	Water System		\$1,000	\$2,000	\$3,000	\$2,000	\$1,000
80	Wastewater System		0	0	0	0	0
81	Total		\$1,000	\$2,000	\$3,000	\$2,000	\$1,000
Construction Fund							
82	Water System		\$0	\$0	\$0	\$0	\$0
83	Wastewater System		0	0	0	0	0
84	Total		\$0	\$0	\$0	\$0	\$0
TOTAL INTEREST INCOME							
85	Water System		\$39,000	\$31,000	\$28,000	\$25,000	\$21,000
86	Wastewater System		0	0	0	0	0
87	Total		\$39,000	\$31,000	\$28,000	\$25,000	\$21,000

Notes:

- [1] (U) = Interest Earnings unrestricted, assumed available to meet system expenditure requirements
(R) = Interest Earnings restricted, assumed not available to meet system expenditure requirements

Table 1-22
City of Hallandale Beach, Florida
Utility Rate Study

Projected Available Wastewater Fund Balances and Interest Earnings

Line No.	Description	Interest Income	For the Fiscal Years Ending September 30, [1]				
			2018	2019	2020	2021	2022
OPERATING FUND		(U)					
1	Beginning Balance		\$2,419,792	\$2,790,762	\$2,982,261	\$3,611,311	\$4,601,298
2	Transfers In - Rate Revenues		14,156,442	14,387,507	14,916,194	15,437,619	16,056,833
3	Transfers In - Reserve for Equipment		0	0	0	0	0
4	Transfers Out - Net Revenue Requirements		13,785,472	14,196,007	14,287,145	14,447,631	15,247,224
5	Transfers Out - Capital Improvements		0	0	0	0	0
6	Transfers Out - Reserve for Equipment		0	0	0	0	0
7	Transfers Out - Payments to Water System		0	0	0	0	0
8	End of Year Transfers In (Out)		0	0	0	0	0
9	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
10	Interest Income		7,000	7,000	8,000	10,000	13,000
	Recognition of Interest Earnings						
11	in Revenue Requirements		7,000	7,000	8,000	10,000	13,000
12	Ending Balance		\$2,790,762	\$2,982,261	\$3,611,311	\$4,601,298	\$5,410,908
13	Percent Allocable to Water System		0.00%	0.00%	0.00%	0.00%	0.00%
14	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
15	Amount Allocable to Wastewater System		\$7,000	\$7,000	\$8,000	\$10,000	\$13,000
RESERVE FOR EQUIPMENT		(U)					
16	Beginning Balance		\$188,993	\$188,993	\$188,993	\$188,993	\$188,993
17	Transfers In		0	0	0	0	0
18	Transfers Out		0	0	0	0	0
19	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
20	Interest Income		0	0	0	0	0
	Recognition of Interest Earnings						
21	in Revenue Requirements		0	0	0	0	0
22	Ending Balance		\$188,993	\$188,993	\$188,993	\$188,993	\$188,993
23	Percent Allocable to Water System		0.00%	0.00%	0.00%	0.00%	0.00%
24	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
25	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
CUSTOMER DEPOSITS		(R)					
26	Beginning Balance		\$0	\$0	\$0	\$0	\$0
27	Transfers In		0	0	0	0	0
28	Transfers Out		0	0	0	0	0
29	Interest Rate		0.00%	0.00%	0.00%	0.00%	0.00%
30	Interest Income		0	0	0	0	0
	Recognition of Interest Earnings						
31	in Revenue Requirements		0	0	0	0	0
32	Ending Balance		\$0	\$0	\$0	\$0	\$0
33	Percent Allocable to Water System		0.00%	0.00%	0.00%	0.00%	0.00%
34	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
35	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
SINKING FUND		(U)					
	Sinking Fund Deposit:						
36	Existing Debt		\$153,667	\$169,288	\$169,148	\$169,527	\$170,893
37	Proposed Debt		0	0	0	0	0
38	Average Balance		\$76,834	\$84,644	\$84,574	\$84,764	\$85,447
39	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
40	Interest Income		\$0	\$0	\$0	\$0	\$0
	Recognition of Interest Earnings						
41	in Revenue Requirements		0	0	0	0	0
42	Percent Allocable to Water System		0.00%	0.00%	0.00%	0.00%	0.00%
43	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
44	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0

Table 1-22
City of Hallandale Beach, Florida
Utility Rate Study

Projected Available Wastewater Fund Balances and Interest Earnings

Line No.	Description	Interest Income	For the Fiscal Years Ending September 30, [1]				
			2018	2019	2020	2021	2022
RESERVE FOR RENEWAL & REPLACEMENT		(U)					
45	Beginning Balance		\$3,384,801	\$3,384,801	\$2,984,801	\$2,346,099	\$1,700,235
46	Transfers In		0	0	0	0	0
47	Transfers In - Other		0	0	0	0	0
48	Transfers Out - CIP		0	400,000	638,703	645,864	400,000
49	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
50	Interest Income		8,000	8,000	7,000	5,000	4,000
	Recognition of Interest Earnings						
51	in Revenue Requirements		8,000	8,000	7,000	5,000	4,000
52	Ending Balance		\$3,384,801	\$2,984,801	\$2,346,099	\$1,700,235	\$1,300,235
53	Percent Allocable to Water System		0.00%	0.00%	0.00%	0.00%	0.00%
54	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
55	Amount Allocable to Wastewater System		\$8,000	\$8,000	\$7,000	\$5,000	\$4,000
FUTURE CONSTRUCTION FUND		(R)					
56	Beginning Balance		\$0	\$0	\$0	\$0	\$0
57	Transfers In		0	0	0	0	0
58	Transfers Out		0	0	0	0	0
59	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
60	Interest Income (3)		0	0	0	0	0
	Recognition of Interest Earnings						
61	in Revenue Requirements		0	0	0	0	0
62	Ending Balance		\$0	\$0	\$0	\$0	\$0
63	Percent Allocable to Water System		0.00%	0.00%	0.00%	0.00%	0.00%
64	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
65	Amount Allocable to Wastewater System		\$0	\$0	\$0	\$0	\$0
IMPACT FEES		(R)					
66	Beginning Balance		\$435,430	\$14,718	\$755,569	\$1,514,665	\$2,206,354
67	Transfers In		104,664	739,852	756,096	686,689	936,260
68	Transfers Out - CIP & Debt Service Payments		526,376	0	0	0	0
69	Interest Rate		0.25%	0.25%	0.25%	0.25%	0.25%
70	Interest Income		1,000	1,000	3,000	5,000	7,000
	Recognition of Interest Earnings						
71	in Revenue Requirements		0	0	0	0	0
72	Ending Balance		\$14,718	\$755,569	\$1,514,665	\$2,206,354	\$3,149,614
73	Percent Allocable to Water System		0.00%	0.00%	0.00%	0.00%	0.00%
74	Amount Allocable to Water System		\$0	\$0	\$0	\$0	\$0
75	Amount Allocable to Wastewater System		\$1,000	\$1,000	\$3,000	\$5,000	\$7,000
INTEREST INCOME							
Unrestricted							
76	Water System		\$0	\$0	\$0	\$0	\$0
77	Wastewater System		15,000	15,000	15,000	15,000	17,000
78	Total		\$15,000	\$15,000	\$15,000	\$15,000	\$17,000
Connection Fee Fund							
79	Water System		\$0	\$0	\$0	\$0	\$0
80	Wastewater System		1,000	1,000	3,000	5,000	7,000
81	Total		\$1,000	\$1,000	\$3,000	\$5,000	\$7,000
Construction Fund							
82	Water System		\$0	\$0	\$0	\$0	\$0
83	Wastewater System		0	0	0	0	0
84	Total		\$0	\$0	\$0	\$0	\$0
TOTAL INTEREST INCOME							
85	Water System		\$0	\$0	\$0	\$0	\$0
86	Wastewater System		16,000	16,000	18,000	20,000	24,000
87	Total		\$16,000	\$16,000	\$18,000	\$20,000	\$24,000

Notes:

- [1] (U) = Interest Earnings unrestricted, assumed available to meet system expenditure requirements
(R) = Interest Earnings restricted, assumed not available to meet system expenditure requirements

Table 1-23
City of Hallandale Beach, Florida
Utility Rate Study

Projected Debt Service Coverage

Line No.	Description	Projected Fiscal Year Ending September 30, [1]				
		2018	2019	2020	2021	2022
<u>Projected Net Revenues</u>						
Gross Revenues						
Sales Revenues						
1	Water - Existing Rate Revenues	\$10,331,037	\$10,489,344	\$10,651,250	\$10,798,132	\$10,998,774
2	Wastewater - Existing Rate Revenues	14,156,442	14,387,507	14,623,720	14,838,120	15,130,694
3	Additional Rate Revenues - Water System	0	0	319,538	657,561	1,019,857
4	Additional Rate Revenues - Wastewater System	0	0	292,474	599,498	926,140
5	Total	\$24,487,479	\$24,876,850	\$25,886,982	\$26,893,312	\$28,075,464
6	Other Operating Revenue	\$1,049,334	\$1,467,523	\$1,490,750	\$1,458,944	\$1,632,117
7	Unrestricted Interest Income	53,000	44,000	40,000	38,000	37,000
8	Total Gross Revenues	\$25,589,813	\$26,388,373	\$27,417,731	\$28,390,256	\$29,744,581
Operating Expenses						
9	Water System	\$9,192,828	\$9,177,956	\$9,534,217	\$9,964,076	\$10,361,988
10	Wastewater System	13,615,047	13,785,999	13,854,420	13,881,718	14,699,452
11	Plus Additional Adjustments	0	0	0	0	0
12	Total Operating Expenses	\$22,807,874	\$22,963,955	\$23,388,637	\$23,845,794	\$25,061,440
13	Net Revenues	\$2,781,938	\$3,424,418	\$4,029,094	\$4,544,462	\$4,683,141
Annual Debt Service Payments						
Existing Debt Service						
14	2012 Chase Bank Loan	\$261,978	\$258,303	\$258,550	\$258,737	\$262,788
15	2014 BB&T Bank Loan	394,500	396,786	395,592	397,507	399,200
16	Clean Water SRF Loan WW061720	16,201	32,402	32,402	32,402	32,402
17	Total Existing Debt Service	\$672,679	\$687,491	\$686,544	\$688,647	\$694,391
Proposed Debt Service						
18	Additional Debt 1	\$0	\$0	\$0	\$0	\$0
19	Additional Debt 2	0	0	0	0	0
20	Additional Debt 3	0	0	815,677	815,677	815,677
21	Additional Debt 4	0	0	0	0	0
22	Total Proposed Debt Service	\$0	\$0	\$815,677	\$815,677	\$815,677
23	Total Annual Debt Service Payments	\$672,679	\$687,491	\$1,502,220	\$1,504,324	\$1,510,068
All-In Debt Service Coverage						
24	Net Revenues	\$2,781,938	\$3,424,418	\$4,029,094	\$4,544,462	\$4,683,141
25	Debt Service Payment	672,679	687,491	1,502,220	1,504,324	1,510,068
26	Coverage - Calculated	414%	498%	268%	302%	310%
27	Coverage - Minimum Target	150%	150%	150%	150%	150%
Senior Lien Debt Service Coverage						
28	Net Revenues	\$2,781,938	\$3,424,418	\$4,029,094	\$4,544,462	\$4,683,141
29	Debt Service Payment	656,478	655,089	1,469,818	1,471,922	1,477,666
30	Coverage - Calculated	424%	523%	274%	309%	317%
31	Coverage - Minimum Requirement	115%	115%	115%	115%	115%
Subordinate Lien Debt Service Coverage - General						
32	Net Revenues After Senior Lien Debt	\$2,125,460	\$2,769,329	\$2,559,276	\$3,072,540	\$3,205,476
33	Debt Service Payment	16,201	32,402	32,402	32,402	32,402
34	Coverage - Calculated	13,119%	8,547%	7,899%	9,483%	9,893%
35	Coverage - Minimum Requirement	115%	115%	115%	115%	115%

Table 1-23
City of Hallandale Beach, Florida
Utility Rate Study

Projected Debt Service Coverage

Line No.	Description	Projected Fiscal Year Ending September 30, [1]				
		2018	2019	2020	2021	2022
<u>Other Lawful Sources and Uses of Funds</u>						
<u>Sources of Cash</u>						
40	Impact Fees used to Pay Debt Service	\$0	\$0	\$0	\$0	\$0
41	Uses of Reserves	0	0	0	0	0
42	Total Sources of Cash	\$0	\$0	\$0	\$0	\$0
<u>Uses of cash</u>						
43	Intragovernmental Transfers	\$111,600	\$114,948	\$118,396	\$121,948	\$125,607
44	Transfer to Renewals and Replacements Fund	0	0	0	0	886,641
45	Capital Funded from Rates	2,689,171	3,724,380	1,270,510	2,739,386	1,081,568
46	Deposits to Reserves	0	0	0	0	0
47	Total Uses of Cash	\$2,800,771	\$3,839,328	\$1,388,907	\$2,861,335	\$2,093,816
<u>Net Cash Flow</u>						
48	Net Revenues Available for Debt Service	\$2,781,938	\$3,424,418	\$4,029,094	\$4,544,462	\$4,683,141
49	Less Annual Debt Service Payments	(672,679)	(687,491)	(1,502,220)	(1,504,324)	(1,510,068)
50	Net Amount Available from Rates for Other Purposes	\$2,109,259	\$2,736,927	\$2,526,874	\$3,040,138	\$3,173,074
51	Plus Other Sources of Cash	\$0	\$0	\$0	\$0	\$0
52	Less Other Uses of Cash	(2,800,771)	(3,839,328)	(1,388,907)	(2,861,335)	(2,093,816)
53	Total Net Cash Flow - Increases to Cash (Decreases to Cash)	(\$691,512)	(\$1,102,401)	\$1,137,967	\$178,803	\$1,079,258

Footnotes:

[1] Amounts derived from Table 1-20.

Table 1-24
City of Hallandale Beach, Florida
Water System

Comparison of Typical Monthly Residential Bills for Water Service [1]

Line No.	Description	Residential Service for a 5/8" or 3/4" Meter							
		0 Gallons	2,000 Gallons	4,000 Gallons	5,000 Gallons	10,000 Gallons	15,000 Gallons	25,000 Gallons	50,000 Gallons
City of Hallandale Beach									
1	Existing Rates - Fiscal Year 2019	\$ 19.76	\$ 21.90	\$ 24.18	\$ 25.32	\$ 32.77	\$ 44.47	\$ 67.87	\$ 131.62
2	Proposed Rates - Fiscal Year 2020	20.35	22.55	24.89	26.06	33.71	45.76	69.86	135.61
Other Florida Utilities:									
3	Broward County	\$ 16.79	\$ 19.95	\$ 24.34	\$ 27.15	\$ 56.52	\$ 93.92	\$ 174.32	\$ 375.32
4	City of Coconut Creek	17.33	25.91	36.05	41.90	76.55	140.90	277.45	638.45
5	City of Cooper City	12.21	18.27	24.33	27.36	44.86	67.06	118.41	264.16
6	City of Coral Springs	13.48	16.86	20.24	22.83	38.38	63.65	136.60	355.60
7	City of Dania Beach	14.55	22.73	30.91	35.00	67.70	102.03	183.73	387.98
8	Town of Davie	21.75	28.93	36.11	39.70	66.45	102.15	182.60	442.55
9	City of Deerfield Beach	15.00	20.30	25.60	28.25	45.58	65.01	105.31	206.06
10	City of Fort Lauderdale	7.56	12.20	19.64	24.76	52.94	91.68	197.58	511.08
11	City of Hollywood	6.76	13.20	20.49	26.93	63.22	109.66	222.50	504.58
12	City of Lake Worth	20.38	26.96	33.54	38.60	67.48	117.15	252.35	628.60
13	City of Lauderhill	11.64	15.14	18.64	21.32	39.50	68.72	132.32	291.32
14	City of Margate	12.31	19.67	27.03	30.71	52.75	75.70	131.00	291.75
15	City of Miramar	15.93	22.25	28.57	31.73	51.08	70.43	119.03	143.33
16	City of North Lauderdale	14.60	21.68	28.76	32.30	50.00	80.05	140.15	290.40
17	City of Oakland Park	15.19	28.27	42.15	49.49	88.31	131.35	225.75	461.75
18	City of Pembroke Pines	18.15	18.15	25.20	32.25	67.50	102.75	173.25	349.50
19	City of Plantation	13.93	17.89	21.85	23.83	41.65	67.39	136.64	373.99
20	City of Pompano Beach	14.00	18.88	23.76	26.20	38.40	55.10	101.50	264.75
21	City of Sunrise	20.87	29.05	37.23	41.32	61.77	82.22	123.12	247.17
22	City of Tamarac	11.77	15.31	19.44	21.80	38.40	64.21	126.51	282.26
23	Village of Tequesta	19.10	25.16	31.22	34.25	49.40	70.76	121.76	314.36
24	City of Wilton Manors	26.69	36.39	46.09	50.94	75.19	99.44	158.74	336.59
25	Other Neighboring Florida Utilities' Average	\$ 15.45	\$ 21.51	\$ 28.24	\$ 32.21	\$ 56.07	\$ 87.33	\$ 160.94	\$ 361.89
26	Minimum	6.76	12.20	18.64	21.32	38.38	55.10	101.50	143.33
27	Maximum	26.69	36.39	46.09	50.94	88.31	140.90	277.45	638.45

Footnotes:

[1] Unless otherwise noted, amounts shown reflect residential rates in effect October 2017 and are exclusive of taxes or franchise fees, if any, and rates charged for inside the city service. All rates are as reported by the respective utility. This comparison is intended to show comparable charges for similar service for comparison purposes only and is not intended to be a complete listing of all rates and charges offered by each listed utility.

Table 1-25
City of Hallandale Beach, Florida
Wastewater System

Comparison of Typical Monthly Residential Bills for Wastewater Service [1]

Line No.	Description	Residential Service for a 5/8" or 3/4" Meter							
		0 Gallons	2,000 Gallons	4,000 Gallons	5,000 Gallons	10,000 Gallons	15,000 Gallons	25,000 Gallons	50,000 Gallons
City of Hallandale Beach									
1	Existing Rates - Fiscal Year 2019	\$ 19.81	\$ 27.91	\$ 36.29	\$ 40.48	\$ 62.33	\$ 86.58	\$ 135.08	\$ 262.83
2	Proposed Rates - Fiscal Year 2020	\$ 20.21	\$ 28.47	\$ 37.01	\$ 41.28	\$ 63.58	\$ 88.33	\$ 137.83	\$ 268.08
Other Florida Utilities:									
3	Broward County	\$ 19.88	\$ 28.10	\$ 36.32	\$ 40.43	\$ 60.98	\$ 81.53	\$ 81.53	\$ 81.53
4	City of Coconut Creek	12.99	19.57	27.55	32.24	55.69	55.69	55.69	55.69
5	City of Cooper City	26.41	32.45	38.49	41.51	56.61	56.61	56.61	56.61
6	City of Coral Springs	22.26	30.74	39.22	43.46	64.66	85.86	128.26	234.26
7	City of Dania Beach	21.52	36.44	51.36	58.82	96.12	133.42	208.02	394.52
8	Town of Davie	38.97	53.01	67.05	74.07	109.17	144.27	144.27	144.27
9	City of Deerfield Beach	10.98	16.40	21.82	24.53	38.08	43.50	43.50	43.50
10	City of Fort Lauderdale	11.09	19.29	32.45	41.51	86.81	132.11	177.41	177.41
11	City of Hollywood	6.48	25.60	44.72	54.27	102.07	149.48	149.48	149.48
12	City of Lake Worth	13.62	21.86	30.10	34.22	54.82	63.06	63.06	63.06
13	City of Lauderhill	18.66	26.14	33.62	37.36	56.06	74.76	112.16	205.66
14	City of Margate	31.25	31.25	31.25	31.25	31.25	31.25	31.25	31.25
15	City of Miramar	18.65	27.53	36.41	40.85	63.05	85.25	129.65	240.65
16	City of North Lauderdale	26.45	34.77	43.09	47.25	68.05	88.85	130.45	234.45
17	City of Oakland Park	18.00	30.76	43.52	49.90	81.80	113.70	113.70	113.70
18	City of Pembroke Pines	23.23	23.23	30.28	37.33	72.58	107.83	178.33	354.58
19	City of Plantation	18.25	28.45	38.65	43.75	69.25	94.75	145.75	273.25
20	City of Pompano Beach	12.64	18.52	24.40	27.34	42.04	42.04	42.04	42.04
21	City of Sunrise	29.68	38.00	46.32	50.48	71.28	92.08	96.24	96.24
22	City of Tamarac	18.75	28.35	37.95	42.75	66.75	76.35	76.35	76.35
23	Village of Tequesta	22.75	22.75	22.75	22.75	22.75	22.75	22.75	22.75
24	City of Wilton Manors	11.44	26.38	41.32	48.79	86.14	123.49	123.49	123.49
25	Other Neighboring Florida Utilities' Average	\$ 19.73	\$ 28.16	\$ 37.21	\$ 42.04	\$ 66.18	\$ 86.30	\$ 105.00	\$ 146.12
	Minimum	6.48	16.40	21.82	22.75	22.75	22.75	22.75	22.75
	Maximum	38.97	53.01	67.05	74.07	109.17	149.48	208.02	394.52

[1] Unless otherwise noted, amounts shown reflect residential rates in effect October 2017 and are exclusive of taxes or franchise fees, if any, and reflect rates charged for inside the city service. All rates are as reported by the respective utility. This comparison is intended to show comparable charges for similar service for comparison purposes only and is not intended to be a complete listing of all rates and charges offered by each listed utility.

Table 1-26
City of Hallandale Beach, Florida
Water and Wastewater System

Comparison of Typical Monthly Residential Bills for Combined Water and Wastewater Service [1]

Line No.	Description	Residential Service for a 5/8" or 3/4" Meter							
		0 Gallons	2,000 Gallons	4,000 Gallons	5,000 Gallons	10,000 Gallons	15,000 Gallons	25,000 Gallons	50,000 Gallons
City of Hallandale Beach									
1	Existing Rates - Fiscal Year 2019	\$ 39.57	\$ 49.81	\$ 60.47	\$ 65.80	\$ 95.10	\$ 131.05	\$ 202.95	\$ 394.45
2	Proposed Rates - Fiscal Year 2020	40.56	51.02	61.90	67.34	97.29	134.09	207.69	403.69
Other Florida Utilities:									
3	Broward County	\$ 36.67	\$ 48.05	\$ 60.66	\$ 67.58	\$ 117.50	\$ 175.45	\$ 255.85	\$ 456.85
4	City of Coconut Creek	30.32	45.48	63.60	74.14	132.24	196.59	333.14	694.14
5	City of Cooper City	38.62	50.72	62.82	68.87	101.47	123.67	175.02	320.77
6	City of Coral Springs	35.74	47.60	59.46	66.29	103.04	149.51	264.86	589.86
7	City of Dania Beach	36.07	59.17	82.27	93.82	163.82	235.45	391.75	782.50
8	Town of Davie	60.72	81.94	103.16	113.77	175.62	246.42	326.87	586.82
9	City of Deerfield Beach	25.98	36.70	47.42	52.78	83.66	108.51	148.81	249.56
10	City of Fort Lauderdale	18.65	31.49	52.09	66.27	139.75	223.79	374.99	688.49
11	City of Hollywood	13.24	38.80	65.20	81.20	165.29	259.14	371.98	654.06
12	City of Lake Worth	34.00	48.82	63.64	72.82	122.30	180.21	315.41	691.66
13	City of Lauderhill	30.30	41.28	52.26	58.68	95.56	143.48	244.48	496.98
14	City of Margate	43.56	50.92	58.28	61.96	84.00	106.95	162.25	323.00
15	City of Miramar	34.58	49.78	64.98	72.58	114.13	155.68	248.68	383.98
16	City of North Lauderdale	41.05	56.45	71.85	79.55	118.05	168.90	270.60	524.85
17	City of Oakland Park	33.19	59.03	85.67	99.39	170.11	245.05	339.45	575.45
18	City of Pembroke Pines	41.38	41.38	55.48	69.58	140.08	210.58	351.58	704.08
19	City of Plantation	32.18	46.34	60.50	67.58	110.90	162.14	282.39	647.24
20	City of Pompano Beach	26.64	37.40	48.16	53.54	80.44	97.14	143.54	306.79
21	City of Sunrise	50.55	67.05	83.55	91.80	133.05	174.30	219.36	343.41
22	City of Tamarac	30.52	43.66	57.39	64.55	105.15	140.56	202.86	358.61
23	Village of Tequesta	41.85	47.91	53.97	57.00	72.15	93.51	144.51	337.11
24	City of Wilton Manors	38.13	62.77	87.41	99.73	161.33	222.93	282.23	460.08
25	Other Neighboring Florida Utilities' Average	\$ 35.18	\$ 49.67	\$ 65.45	\$ 74.25	\$ 122.26	\$ 173.63	\$ 265.94	\$ 508.01
26	Minimum	13.24	31.49	47.42	52.78	72.15	93.51	143.54	249.56
27	Maximum	60.72	81.94	103.16	113.77	175.62	259.14	391.75	782.50

[1] Unless otherwise noted, amounts shown reflect residential rates in effect October 2017 and are exclusive of taxes or franchise fees, if any, and reflect rates charged for inside the city service. All rates are as reported by the respective utility. This comparison is intended to show comparable charges for similar service for comparison purposes only and is not intended to be a complete listing of all rates and charges offered by each listed utility.

APPENDIX 1-A

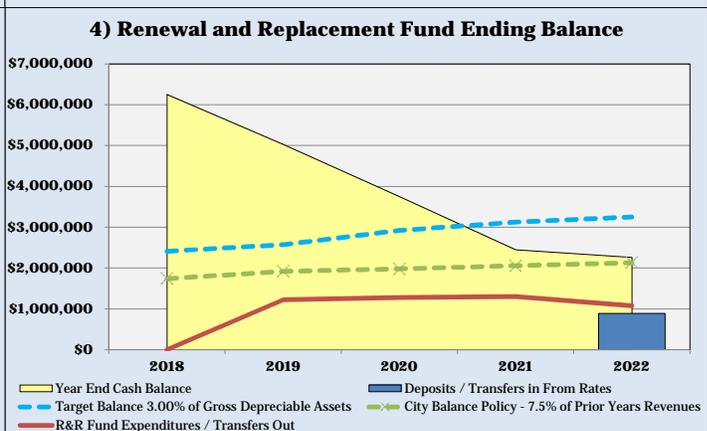
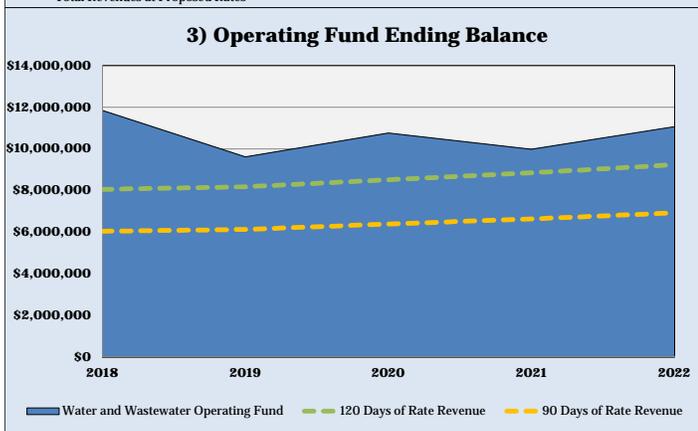
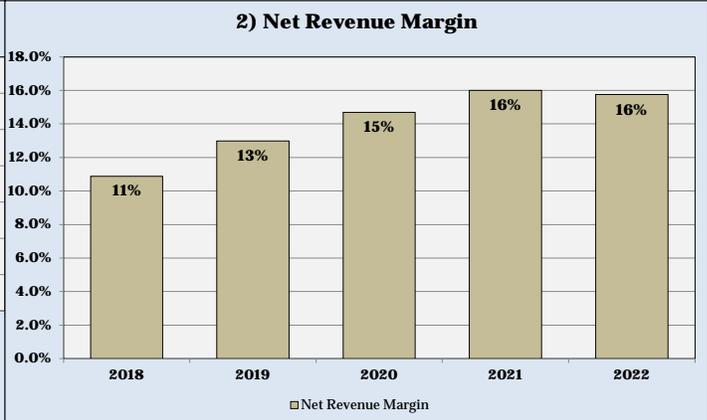
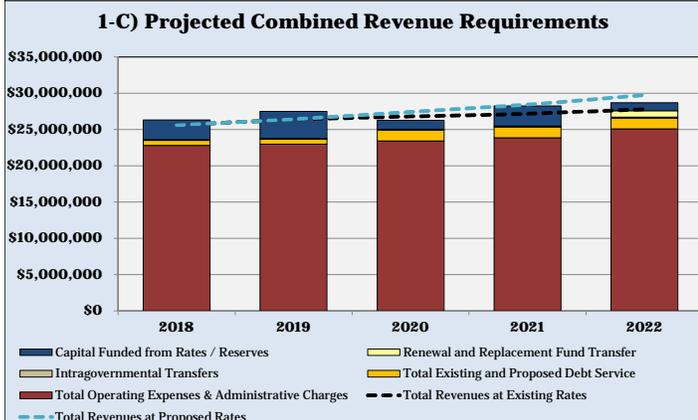
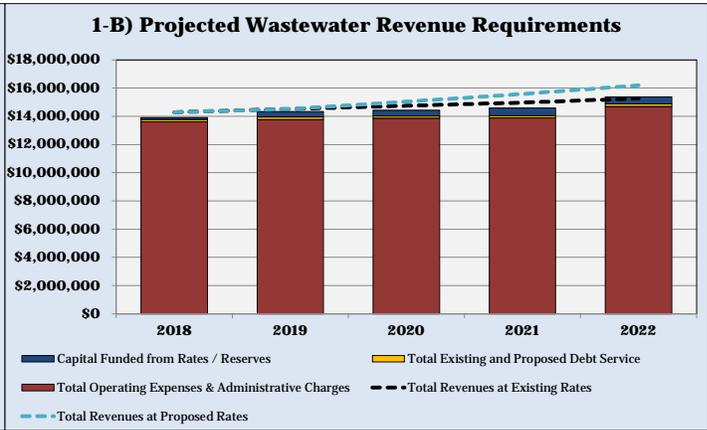
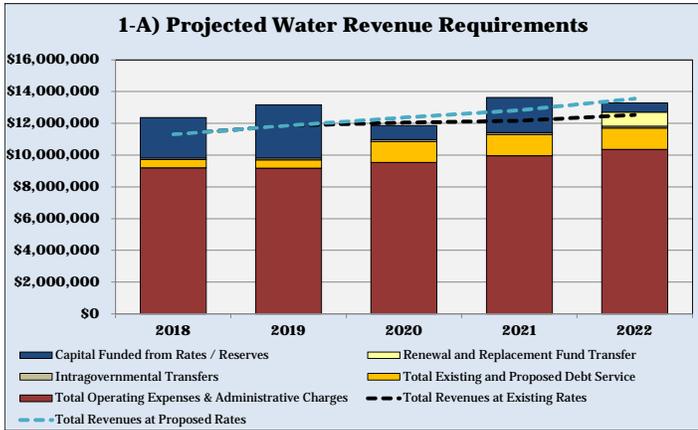


Appendix I
City of Hallandale Beach, Florida
Utility Rate Study



Water and Wastewater System Financial Dashboards and Performance Metrics

Description	Fiscal Year Ending September 30th.					Description	Fiscal Year Ending September 30th.				
	2018	2019	2020	2021	2022		2018	2019	2020	2021	2022
Recognized Revenue Adjustments:						System Surplus / (Deficiency):					
<u>Water Revenue Adjustment</u>	0.00%	0.00%	3.00%	3.00%	3.00%	Water Revenue Surplus / (Deficiency)	(\$1,062,482)	(\$1,293,901)	\$508,918	(\$811,184)	\$269,649
Effective Month of Increase	Oct.	Oct.	Oct.	Oct.	Oct.	Percent of Water Rate Revenues	-10.28%	-12.34%	4.64%	-7.08%	2.24%
Cumulative Rate Adjustment	0.00%	0.00%	3.00%	6.09%	9.27%	Wastewater Revenue Surplus / (Deficiency)	370,970	191,499	629,049	989,988	809,610
<u>Wastewater Revenue Adjustment</u>	0.00%	0.00%	2.00%	2.00%	2.00%	Percent of Wastewater Rate Revenues	2.62%	1.33%	4.22%	6.41%	5.04%
Effective Month of Increase	Oct.	Oct.	Oct.	Oct.	Oct.	Combined Revenue Surplus / (Deficiency)	(\$691,512)	(\$1,102,401)	\$1,137,967	\$178,803	\$1,079,258
Cumulative Rate Adjustment	0.00%	0.00%	2.00%	4.04%	6.12%	Percent of Rate Revenues	(2.82%)	(4.43%)	4.40%	0.66%	3.84%
<u>Combined Revenue Adjustment</u>						Estimated Average Residential Bill:					
Combined Rate Adjustment	0.00%	0.00%	2.42%	2.42%	2.43%	Average Water Bill @ 5,000 gal	\$25.32	\$25.32	\$26.08	\$26.86	\$27.67
Cumulative Combined Rate Adjustment	0.00%	0.00%	2.42%	4.90%	7.45%	Average Wastewater Bill @ 5,000 gal	40.48	40.48	41.29	42.12	42.96
						Average Combined Bill @ 5,000 gal	\$65.80	\$65.80	\$67.37	\$68.98	\$70.63
						Monthly Increase - Total	N/A	\$0.00	\$1.57	\$1.61	\$1.65



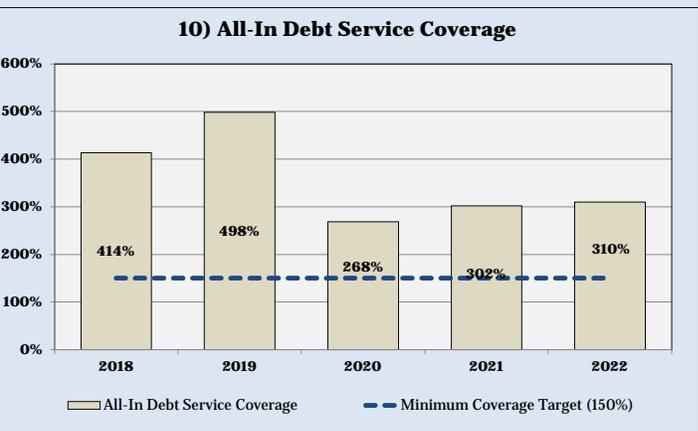
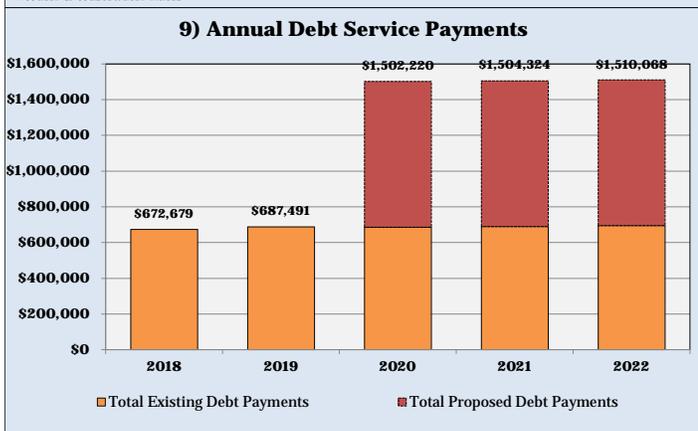
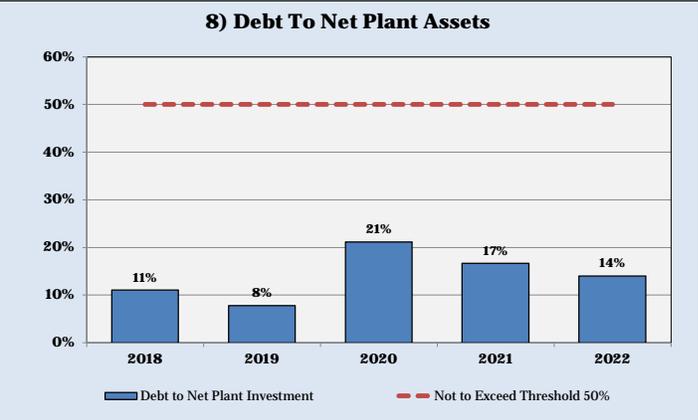
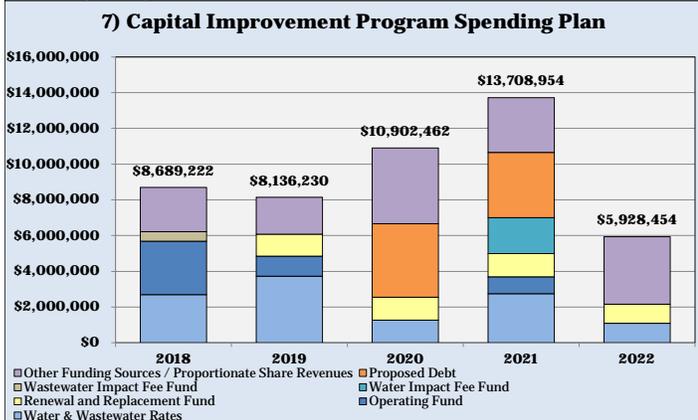
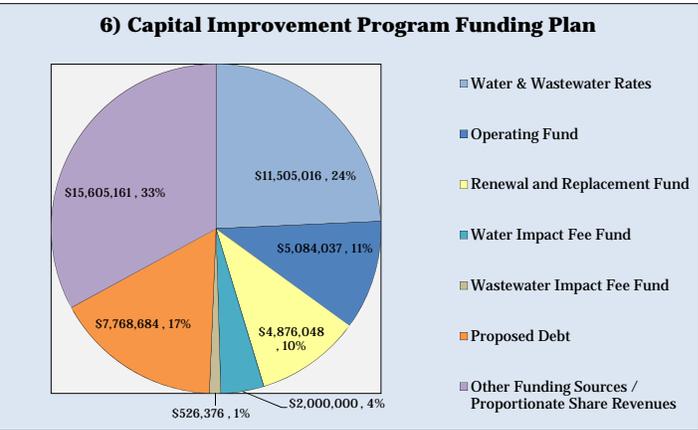
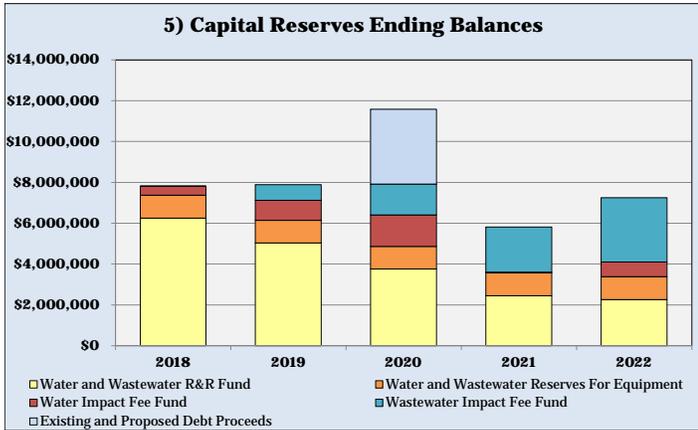


Appendix I
City of Hallandale Beach, Florida
Utility Rate Study



Water and Wastewater System Financial Dashboards and Performance Metrics

Description	Fiscal Year Ending September 30th.					Description	Fiscal Year Ending September 30th.				
	2018	2019	2020	2021	2022		2018	2019	2020	2021	2022
Recognized Revenue Adjustments:						System Surplus / (Deficiency):					
<u>Water Revenue Adjustment</u>	0.00%	0.00%	3.00%	3.00%	3.00%	Water Revenue Surplus / (Deficiency)	(\$1,062,482)	(\$1,293,901)	\$508,918	(\$811,184)	\$269,649
Effective Month of Increase	Oct.	Oct.	Oct.	Oct.	Oct.	Percent of Water Rate Revenues	-10.28%	-12.34%	4.64%	-7.08%	2.24%
Cumulative Rate Adjustment	0.00%	0.00%	3.00%	6.09%	9.27%	Wastewater Revenue Surplus / (Deficiency)	370,970	191,499	629,049	989,988	809,610
						Percent of Wastewater Rate Revenues	2.62%	1.33%	4.22%	6.41%	5.04%
<u>Wastewater Revenue Adjustment</u>	0.00%	0.00%	2.00%	2.00%	2.00%	Combined Revenue Surplus / (Deficiency)	(\$691,512)	(\$1,102,401)	\$1,137,967	\$178,803	\$1,079,258
Effective Month of Increase	Oct.	Oct.	Oct.	Oct.	Oct.	Percent of Rate Revenues	(2.82%)	(4.43%)	4.40%	0.66%	3.84%
Cumulative Rate Adjustment	0.00%	0.00%	2.00%	4.04%	6.12%	Estimated Average Residential Bill:					
						Average Water Bill @ 5,000 gal	\$25.32	\$25.32	\$26.08	\$26.86	\$27.67
<u>Combined Revenue Adjustment</u>						Average Wastewater Bill @ 5,000 gal	40.48	40.48	41.29	42.12	42.96
Combined Rate Adjustment	0.00%	0.00%	2.42%	2.42%	2.43%	Average Combined Bill @ 5,000 gal	\$65.80	\$65.80	\$67.37	\$68.98	\$70.63
Cumulative Combined Rate Adjustment	0.00%	0.00%	2.42%	4.90%	7.45%	Monthly Increase - Total	N/A	\$0.00	\$1.57	\$1.61	\$1.65



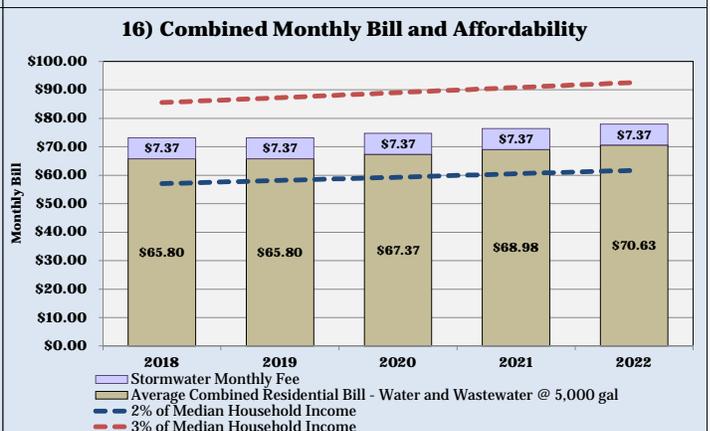
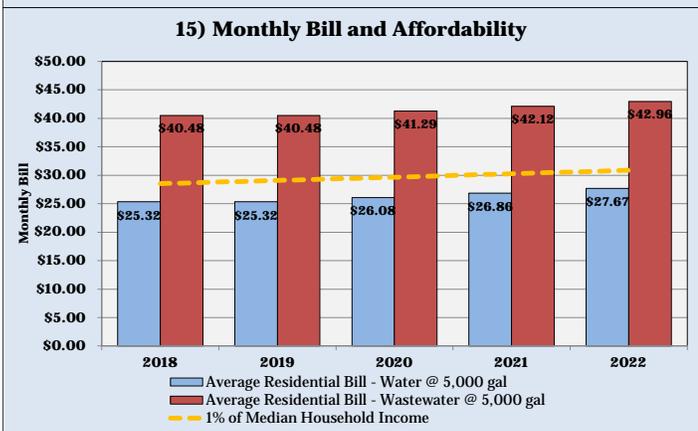
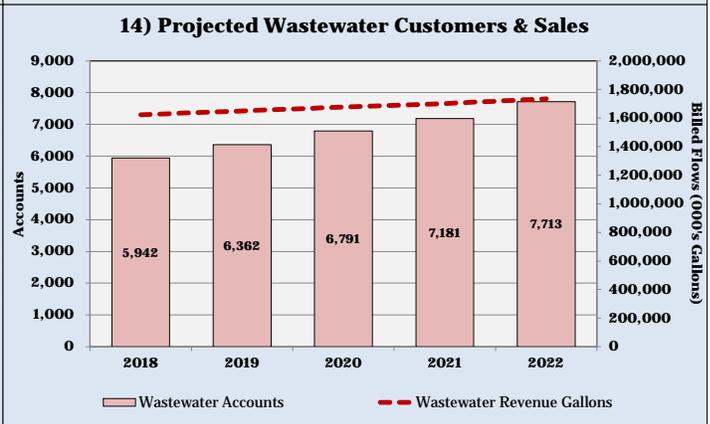
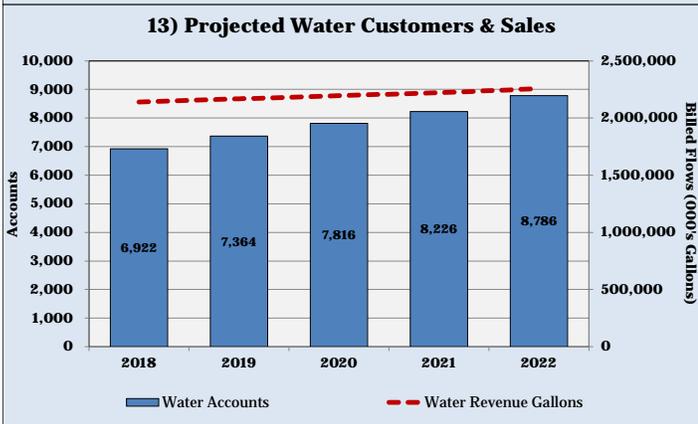
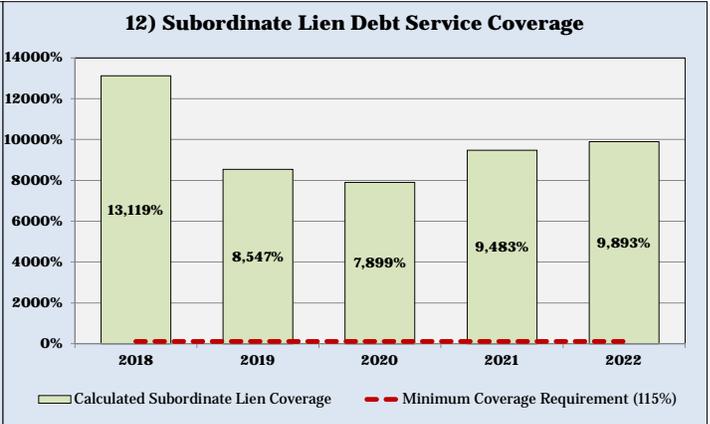
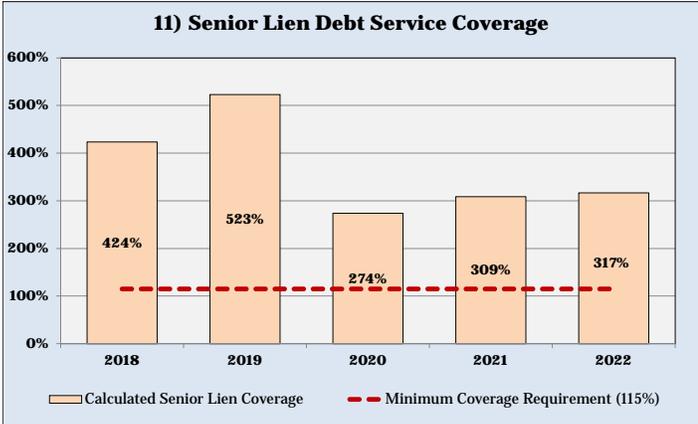


Appendix I
City of Hallandale Beach, Florida
Utility Rate Study



Water and Wastewater System Financial Dashboards and Performance Metrics

Description	Fiscal Year Ending September 30th,					Description	Fiscal Year Ending September 30th,				
	2018	2019	2020	2021	2022		2018	2019	2020	2021	2022
Recognized Revenue Adjustments:						System Surplus / (Deficiency):					
<u>Water Revenue Adjustment</u>	0.00%	0.00%	3.00%	3.00%	3.00%	Water Revenue Surplus / (Deficiency)	(\$1,062,482)	(\$1,293,901)	\$508,918	(\$811,184)	\$269,649
Effective Month of Increase	Oct.	Oct.	Oct.	Oct.	Oct.	Percent of Water Rate Revenues	-10.28%	-12.34%	4.64%	-7.08%	2.24%
Cumulative Rate Adjustment	0.00%	0.00%	3.00%	6.09%	9.27%	Wastewater Revenue Surplus / (Deficiency)	370,970	191,499	629,049	989,988	809,610
<u>Wastewater Revenue Adjustment</u>	0.00%	0.00%	2.00%	2.00%	2.00%	Percent of Wastewater Rate Revenues	2.62%	1.33%	4.22%	6.41%	5.04%
Effective Month of Increase	Oct.	Oct.	Oct.	Oct.	Oct.	Combined Revenue Surplus / (Deficiency)	(\$691,512)	(\$1,102,401)	\$1,137,967	\$178,803	\$1,079,258
Cumulative Rate Adjustment	0.00%	0.00%	2.00%	4.04%	6.12%	Percent of Rate Revenues	(2.82%)	(4.43%)	4.40%	0.66%	3.84%
<u>Combined Revenue Adjustment</u>						Estimated Average Residential Bill:					
Combined Rate Adjustment	0.00%	0.00%	2.42%	2.42%	2.43%	Average Water Bill @ 5,000 gal	\$25.32	\$25.32	\$26.08	\$26.86	\$27.67
Cumulative Combined Rate Adjustment	0.00%	0.00%	2.42%	4.90%	7.45%	Average Wastewater Bill @ 5,000 gal	40.48	40.48	41.29	42.12	42.96
						Average Combined Bill @ 5,000 gal	\$65.80	\$65.80	\$67.37	\$68.98	\$70.63
						Monthly Increase - Total	N/A	\$0.00	\$1.57	\$1.61	\$1.65



SECTION 2

STORMWATER SYSTEM

CITY OF HALLANDALE BEACH, FLORIDA

WATER, WASTEWATER AND STORMWATER UTILITY RATE STUDY

SECTION 2 – STORMWATER SYSTEM

INTRODUCTION

The purpose of this section is to summarize the development of proposed stormwater rates sufficient to recover the projected cost of operating, maintaining, repairing, and financing the stormwater system through Fiscal Year 2022. As outlined herein, no stormwater rate adjustments are proposed in order to support the revenue requirements projected for the stormwater system. Based on the forecasted operating results, the City can meet the projected stormwater system revenue requirements (i.e., expenditures) for Fiscal Years 2018 through 2022 with the no rate adjustments over the Forecast Period as shown below:

	Proposed Stormwater User Rate Adjustments [*]				
	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>
Stormwater System	0.00%	0.00%	0.00%	0.00%	0.00%
Effective Date	Oct. 1	Oct. 1	Oct. 1	Oct. 1	Oct. 1

[*] Amounts derived from Table 2-10 at the end of this section.

The reason that no rate adjustment is required, as shown above, is that the City recently implemented a 120% rate increase prior to the rate study. These rates were effective starting Fiscal Year 2018.

The recommendations of this study are based on a financial forecast developed for the stormwater system and this section discusses the primary study assumptions, considerations, goals and recommendations. The study began with the identification of utility operating and capital needs, next considered the capital financing plan and, finally, established the timing of rate adjustments and borrowing, if necessary. The financial forecast serves as the basis for the rate recommendations for Fiscal Years 2018 through 2022 (the "Forecast Period").

REVENUE FORECAST

The City of Hallandale Beach has recently been experiencing low customer growth within its stormwater system; however, there are opportunities to extend service to new properties, which the City is actively pursuing. The City has developed a Downtown Activity Center Program based on the expansion of stormwater facilities into new areas. Based on the information provided by the City and discussions with the City staff, it is estimated that approximately 5,628 ERUs (which averages about 2.5% growth per year) will be added to the system by Fiscal Year 2022.

Based on the proposed Fiscal Year 2018 Budget along with existing rates, the City anticipates collecting approximately \$4.5 million in stormwater rate revenues. As shown in the table below

and in Table 2-1 at the end of this section, the following summarizes the projected rate revenues anticipated under existing rates:

Projected Rate Revenues Under Existing Rates [*]					
Description	Projected Fiscal Year Ending September 30,				
	2018	2019	2020	2021	2022
Stormwater System	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957	\$4,680,483

[*] Amounts derived from Table 2-1.

The City also derives other income from the stormwater system operations such as penalties and certain other miscellaneous charges. The City budgets this income annually, and our analysis assumed that such revenues and income as summarized in Table 2-1 at the end of this section would remain generally level in future years.

REVENUE REQUIREMENTS

The various expenditures associated with operating and maintaining a municipally owned stormwater system, as well as the cost of financing capital expenditures and the maintenance and replacement of vehicles and equipment, are generally referred to as the stormwater revenue requirements. The sum of these cost components, after adjusting for other income and miscellaneous utility revenues, represents the net revenue requirements to be collected from monthly user rates. The revenue requirements for this rate analysis are predicated on an analysis of stormwater costs for the five (5) year Forecast Period ending September 30, 2022.

PRINCIPAL ASSUMPTIONS AND CONSIDERATIONS

The projected cash revenue requirements for the stormwater system are shown in Table 2-10 at the end of this section. The projected revenue requirements reflect certain assumptions, considerations and analyses as follows:

1. As shown in Table 2-2 at the end of this section, the adopted Fiscal Year 2018 Budget associated with the operations of the stormwater system served as the basis for the system's expenditure projections. Unless otherwise noted, the underlying assumptions and expenditure amounts included therein were assumed to be reasonable and reflect anticipated operations.
2. The operations and maintenance expenses of the stormwater system proposed for Fiscal Year 2018 were projected for the remaining four (4) years of the Forecast Period (i.e., through Fiscal Year 2022) as illustrated in Table 2-3 at the end of this section. The following summarizes the general cost escalation factors used to project future expenses that are summarized in Table 2-3 at the end of this section:
 - a. Labor-Related Increases = 3.0% annually.
 - b. Health Insurance = 10.0% annually.
 - c. Professional / Contractual Services = 3.0% annually.

- d. Utility and Fuel Costs = 5.0% annually.
- e. Repairs and Maintenance Expenses = 3.0% annually.
- f. Costs assumed to be based on projected changes in the CPI = approximately 2.4% per year as represented in "The Budget and Economic Outlook: An Update" published by the Congressional Budget Office in June 2017.

Also included in the expense projections are the costs associated with the hiring of two (2) new Public Service Workers for approximately \$58,000 per year each. The first of these is anticipated for 2020 and the second for 2022.

- 2. The capital expenditures for the stormwater system are based on estimated project costs derived from the City's capital improvement plan or CIP, which also includes the current year (Fiscal Year 2018) through Fiscal Year 2022. Table 2-5 at the end of this section provides a detailed listing of the planned stormwater capital projects during the Forecast Period.
- 3. The following table summarizes the anticipated funding sources used to fund the CIP as derived from Table 2-5:

Description	Amount	Percent
Rate Revenues	\$12,776,979	97.2%
Grant Funding/Other	365,217	2.8%
Total Funding Sources	\$13,142,196	100%

[*] Amounts derived from Table 2-5.

- 4. In order to meet the funding needs of the capital plan, the City will be applying for Community Development Block Grants from the Department of Housing and Urban Development. Based on discussions with the City staff, grant funding is anticipated to fund approximately \$365,217 or 2.8% of the CIP through Fiscal Year 2022.
- 5. In order to develop a reserve account for capital needs and capital contingencies the stormwater system will begin depositing a percentage of the prior year's annual revenues to a renewal and replacement account during the Forecast Period. These funds will be used for funding of ongoing capital needs as well as for unforeseen emergencies. A baseline target minimum balance of 7.5% of prior year revenues was set for the fund to be consistent with the City's water system's target. An additional target balance was set equal to 3.0% of gross depreciable assets. As shown on Table 2-7, the funding of capital reserves as a percentage of annual revenues is assumed to begin at 5% and increase to 10% by 2022. The annual deposit would be approximately \$105,000 in 2018 increasing to \$468,000 by 2022.
- 6. Based on the proposed Fiscal Year 2018 Budget, the stormwater system will transfer \$10,500 to the General Liability Self Insurance Fund. As shown in Table 2-8 at the end of

this section, this amount is funded during each year of the Forecast Period for approximately \$11,150 per year on average.

7. The stormwater system has debt requiring annual principal and interest payments of approximately \$275,000 per year. Such debt is comprised of two senior lien bank notes. The JP Morgan Chase Revenue Note 2012 for approximately \$69,000 per year which matures in 2022 and the BB&T 2014 Refunding Loan for approximately \$206,000 per year which matures in 2025. No new additional debt is assumed for the Forecast Period.

8. The stormwater system should have adequate cash reserves in order to meet day-to-day funding needs and any unexpected emergencies requiring immediate financial resources. Based on discussions with the City staff, a financial target of at least 120 days of annual revenues was established for the operating fund since the utility is capital-intensive and must be able to cover storm damage or emergency expenditures. Additionally, the City plans to maintain a minimum target balance of 7.5% of prior year revenues and an average target balance of 3.0% of gross depreciable assets for the renewal and replacement fund. The following tabulation, which is derived from Tables 2-10 at the end of this section, summarizes the projected cash balances for each fiscal year of the Forecast Period based on maintaining the existing stormwater rate levels as recommended herein:

Projected Year-Ending Cash Balances at Proposed Rates [*]

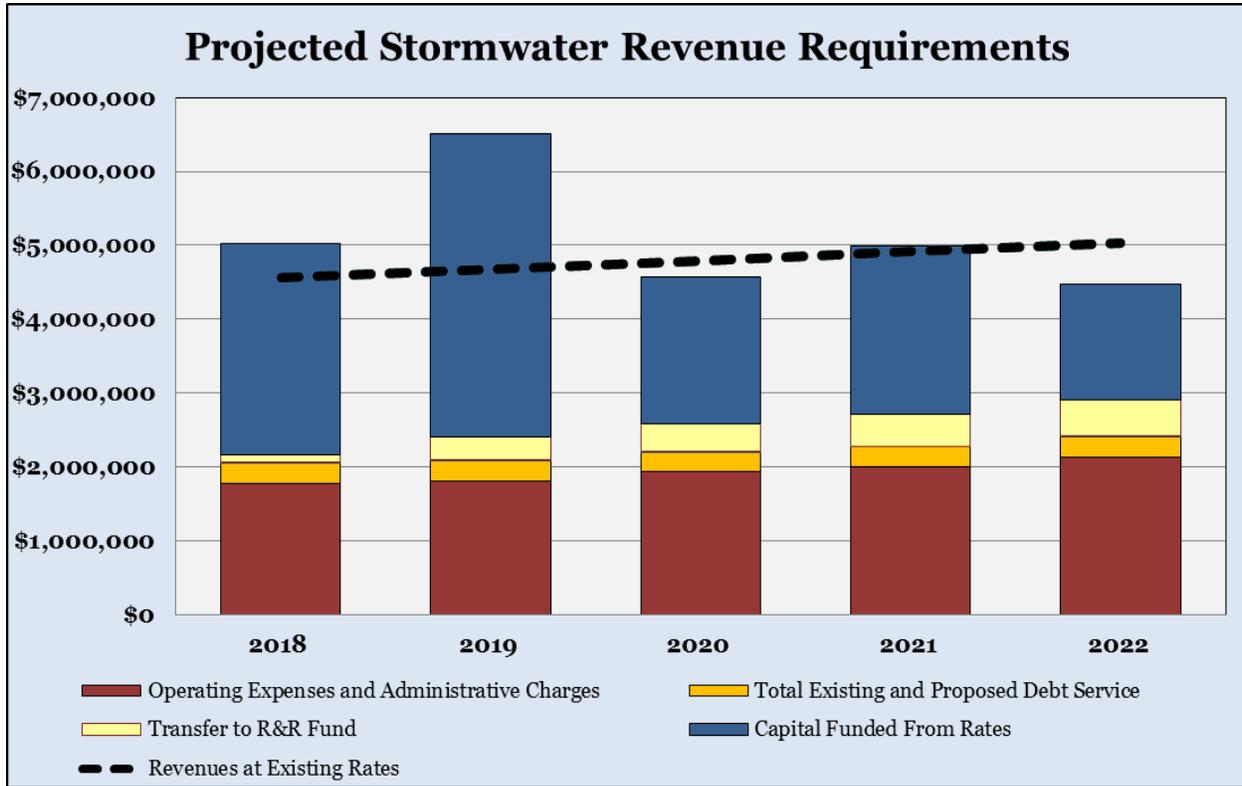
Description	Projected Fiscal Year Ending September 30,				
	2018	2019	2020	2021	2022
Operating Fund	\$3,426,007	\$1,519,279	\$1,587,737	\$1,296,549	\$1,569,396
Renewal and Replacement Fund	105,000	425,000	793,000	1,211,000	1,679,000
Total Cash Balances	<u>\$3,531,007</u>	<u>\$1,944,276</u>	<u>\$2,380,737</u>	<u>\$2,507,549</u>	<u>\$3,248,396</u>
Operating Fund Calculated –					
Days of Annual Revenues	277	122	126	102	122
Target – Days of Annual Revenues	120	120	120	120	120

[*] Amounts derived from Table 2-10.

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STORMWATER SYSTEM REVENUE REQUIREMENTS SUMMARY

The projected net revenue requirements through Fiscal Year 2022 for the City's stormwater system funded from user rates are summarized below:

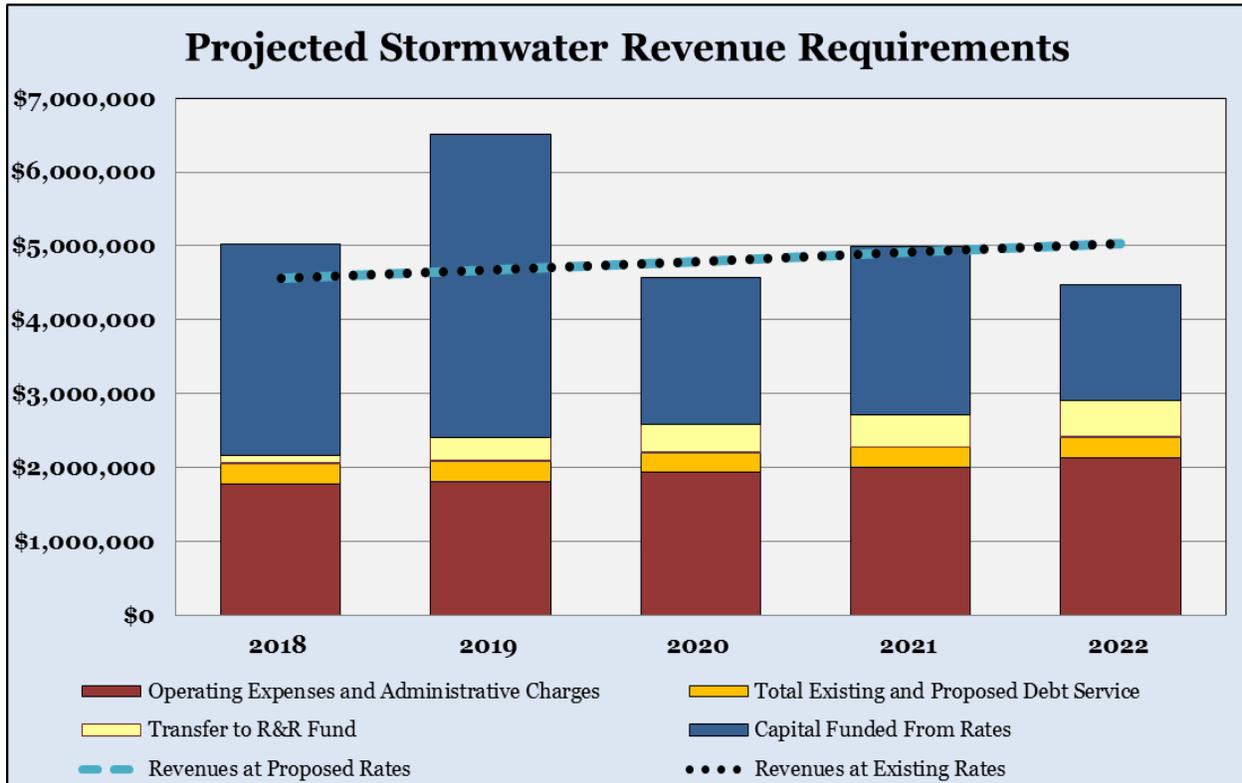


As can be seen in the summary above, the estimated net revenue requirements for the five (5) years beginning with the Fiscal Year 2018 are anticipated to decrease by approximately 3.0% per year or approximately \$143,000 per year on average due to the decreases in the capital funding program.

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ADEQUACY OF EXISTING UTILITY RATE REVENUES

As shown in Table 2-10 at the end of this section, based on the projected revenues for the stormwater system and the assumptions and considerations set forth herein with respect to estimated revenue requirements, the projected rate revenue surpluses and deficiencies for the Forecast Period are anticipated to be as follows:



As shown above for the stormwater system, no rate increases are proposed for bills rendered on or after October 1, 2018. It is estimated that existing revenues would meet the projected net revenue requirements of the stormwater system by Fiscal Year 2020.

DEBT SERVICE COMPLIANCE

In addition to funding the net revenue requirements (i.e., expenditure requirements), the proposed stormwater rates must be sufficient to meet the debt service coverage requirements of the City's existing and proposed debt. The City's outstanding senior lien loan agreements require the City to maintain rates adequate to achieve a minimum 1.15 debt service coverage ratio on senior lien debt. The debt service coverage ratio is calculated as a ratio of gross system revenues less the sum of operating expenses and required transfers to debt service payments. Based on the adoption of the proposed rate increases (rates at existing levels), the City is anticipated to be in compliance with the rate covenants as shown in Table 2-11 at the end of this section.

PROPOSED RESIDENTIAL STORMWATER RATES AND COMPARISONS

In accordance with the rate design guidelines, ERU forecast, projected net revenue requirements, and discussions with City staff, Raftelis recommended maintaining the existing rate levels as described in the Executive Summary. The existing charges are higher than average when compared to neighboring stormwater systems based on the comparison shown in Table 2-12 at the end of this section and summarized as follows:

Description	Monthly Amount	Annual Amount
Existing Rates	\$7.37	\$88.44
Proposed Rates – 2020	7.37	88.44
Increase/(Decrease)	0.00	0.00
Other Florida Utilities Average [*]	\$6.40	\$76.84

[*] Based on a survey of 22 other Florida systems as shown in Table 2-12.

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**City of Hallandale Beach, Florida
Stormwater Utility Rate Study**



List of Tables and Appendices

<u>Table Number</u>	<u>Table Description</u>
2-1	Projected Operating and Non-Operating Revenues
2-2	Fiscal Year 2018 Budgeted Stormwater Operating Expenses
2-3	Projected Stormwater Operating Expenses
2-4	Summary of System Expense Escalation Factors
2-5	Projected Capital Improvement Program Funding Plan
2-6	Projection of Existing and Proposed Debt Service Payments
2-7	Projected Transfer to Renewal and Replacement Fund
2-8	Projected Intergovernmental Transfers
2-9	Projected Fund Balances & Interest Income
2-10	Development of Net Revenue Requirements from Rates
2-11	Projected Debt Service Coverage
2-12	Comparison of Monthly Residential Stormwater Rates
Appendix 2	Stormwater System Financial Dashboards and Performance Metrics

Table 2-1
City of Hallandale Beach, Florida
Utility Rate Study

Projected Operating and Non-Operating Revenues

Line No.	Object Code	Description	Adopted [1]	Adjustments	Adjusted	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
			2018		2018		2019	2020	2021	2022
Stormwater Operating & Non-operating Revenues										
Operating Revenues										
1	343317	Stormwater Drainage Fees	\$4,515,631	\$0	\$4,515,631	Calculated	\$4,554,721	\$4,594,696	\$4,630,957	\$4,680,483
2		Total Operating Revenues	<u>\$4,515,631</u>	<u>\$0</u>	<u>\$4,515,631</u>		<u>\$4,554,721</u>	<u>\$4,594,696</u>	<u>\$4,630,957</u>	<u>\$4,680,483</u>
Non-operating Revenues										
3	343503	Stormwater Penalties	\$17,780	0	17,780	Constant	\$17,780	\$17,780	\$17,780	\$17,780
		Admin Charge - Transportation Fund	0	0	0	Constant	0	0	0	0
4	349643	Admin Charge - Water Fund	10,052	0	10,052	Personnel	10,354	10,664	10,984	11,314
5	349645	Admin Charge - Sewer Fund	11,489	0	11,489	Personnel	11,834	12,189	12,554	12,931
6	337361	Pembroke PK-I-95 Lift Station	0	0	0	Eliminate	0	0	0	0
7	361100	Interest Income - Main Pool	10,000	(10,000)	0	Eliminate	0	0	0	0
8	369990	Miscellaneous Revenues - Other	0	0	0	Constant	0	0	0	0
9	389100	Appropriations from Unappropriated Surplus - O&M	0	0	0	Eliminate	0	0	0	0
10	390100	Reappropriation of Fund Balance	0	0	0	Eliminate	0	0	0	0
11	385400	Gain on Bond Refunding	0	0	0	Eliminate	0	0	0	0
12	383600	Capital Contributions	0	0	0	Eliminate	0	0	0	0
13		Use of Reserves	0	0	0	Eliminate	0	0	0	0
14		Total Non-operating Revenues	<u>\$49,321</u>	<u>(\$10,000)</u>	<u>\$39,321</u>		<u>\$39,967</u>	<u>\$40,633</u>	<u>\$41,318</u>	<u>\$42,025</u>
15		Total Stormwater Operating and Non-operating Revenues	<u><u>\$4,564,952</u></u>	<u><u>(\$10,000)</u></u>	<u><u>\$4,554,952</u></u>		<u><u>\$4,594,689</u></u>	<u><u>\$4,635,329</u></u>	<u><u>\$4,672,275</u></u>	<u><u>\$4,722,508</u></u>

Footnotes:

[1] Amounts reflect the adopted revenues for Fiscal Year 2018 as provided by City staff.

[2] Escalation reference and amounts derived from Table 2-4.

Table 2-2
City of Hallandale Beach, Florida
Utility Rate Study

Fiscal Year 2018 Budgeted Stormwater Operating Expenses

Line No.	Department Code	Object Code	Project Code	Description	Budget 2018	Adjustments	Adjusted 2018
	3660			Stormwater Management			
				<u>Personnel Services</u>			
1	3660	512000		Regular Salaries and Wages	\$407,779	\$0	\$407,779
2	3660	AddPer		Additional Personnel	\$0	0	0
3	3660	513000		Other Salaries and Wages	16,640	0	16,640
4	3660	514000		Overtime Pay	14,500	0	14,500
5	3660	515150		Auto and Travel Allowances	0	0	0
6	3660	515250		Payouts - Civil Service	0	0	0
7	3660	515300		Payouts - Sick Leave	0	0	0
8	3660	515350		Payouts - Vacation Pay	0	0	0
9	3660	515500		Sick Accrual Expense	0	0	0
10	3660	515550		Vacation Accrual Expense	0	0	0
11	3660	521050		Social Security	24,192	0	24,192
12	3660	521100		Medicare	5,835	0	5,835
13	3660	522150		Pensions - General Employees	65,121	0	65,121
14	3660	522151		General GASB 68	0	0	0
15	3660	522200		Pensions - ICMA 401a	25,743	0	25,743
16	3660	522250		Pensions - OPEB	0	4,284	4,284
17	3660	522300		401a Match Program	7,618	0	7,618
18	3660	522350		Pensions - Retirement Health	6,908	0	6,908
19	3660	523050		Health Insurance	91,434	0	91,434
20	3660	523100		Dental Insurance	1,355	0	1,355
21	3660	523150		Life Insurance	627	0	627
22	3660	523200		Long-term Disability Insurance	555	0	555
23	3660	524000		Workers' Compensation	3,704	0	3,704
24				Total Personnel Services	\$672,011	\$4,284	\$676,295
				<u>Operating Expenses</u>			
25	3660	531010		Professional Services	\$76,800	\$0	\$76,800
26	3660	531010	12161	Professional Services	0	0	0
27	3660	531010	14411	Professional Services	0	0	0
28	3660	531010	P1506	Professional Services	0	0	0
29	3660	531010	P1603	Professional Services	0	0	0
30	3660	531010	P1702	Professional Services	0	0	0
31	3660	531010	P1801	Professional Services	50,000	(50,000) [2]	0
32	3660	532000		Accounting and Auditing	3,433	0	3,433
33	3660	534010		Outside Services	283,500	(230,000) [2]	53,500
34	3660	534010	CM001	Outside Services	0	0	0
35	3660	534010	P1512	Outside Services	0	0	0
36	3660	534010	P1610	Outside Services	2,175,000	(2,175,000) [2]	0
37	3660	534010	P1612	Outside Services	0	0	0
38	3660	534040		Special Events	0	0	0
39	3660	541010		Phone and Communications	1,428	0	1,428
40	3660	542000		Postage and Freight	12,741	0	12,741
41	3660	543010		Electricity	75,000	0	75,000
42	3660	544010		Uniforms	1,687	0	1,687
43	3660	544030		Equipment Rental	0	0	0
44	3660	546040		Equipment Repairs	5,000	0	5,000
45	3660	546050		Computer Hardware Maintenance	0	0	0
46	3660	546070		Equipment Maintenance Agreements	0	0	0
47	3660	546090		Office Equipment	0	0	0
48	3660	546120		Storm Drains	29,760	0	29,760
49	3660	547000		Printing and Binding	8,000	0	8,000
50	3660	549970		Contingencies	0	0	0
51	3660	549990		Working Reserves	52,983	(52,983)	0
52	3660	551000		Office Supplies	0	0	0
53	3660	552010		Specialized Supplies	0	0	0
54	3660	552030		Equipment and Tools	10,000	0	10,000
55	3660	552050		Medical Supplies	0	0	0
56	3660	552060		Chemicals	0	0	0
57	3660	552070		Small Furniture and Fixtures	0	0	0

Table 2-2
City of Hallandale Beach, Florida
Utility Rate Study

Fiscal Year 2018 Budgeted Stormwater Operating Expenses

Line No.	Department Code	Object Code	Project Code	Description	Budget 2018	Adjustments	Adjusted 2018
58	3660	552080		Traffic Control / Signs	1,000	0	1,000
59	3660	552140		Diesel Fuel	24,308	0	24,308
60	3660	552150		Motor Vehicle Fuel	5,160	0	5,160
61	3660	552160		Grease, Oil, and Lubricants	0	0	0
62	3660	552170		Computer Equipment and Supplies	0	0	0
63	3660	552200		Uniforms / Protective Clothing	2,260	0	2,260
64	3660	552230		CM Project / Program Supplies	0	0	0
65	3660	552250		Machinery Parts	1,000	0	1,000
66	3660	552280		Purchased Water	0	0	0
67	3660	552300		Drafting Supplies	0	0	0
68	3660	554010		Books and Publications	0	0	0
69	3660	554030		Dues and Memberships	1,560	0	1,560
70	3660	554040		Internet Subscriptions	0	0	0
71	3660	555010		Computer Training	1,500	0	1,500
72	3660	555020		Meetings and Seminars	1,200	0	1,200
73	3660	555040		General Employee Training	4,325	0	4,325
74	3660	555060		License and Certification	14,307	0	14,307
75	3660	559010		Depreciation Expense	0	0	0
76	3660	564040		Machinery and Equipment	25,000	(25,000) [2]	0
77	3660	564070	12161	Computer Equipment	0	0 [2]	0
78	3660	565000	14411	Construction in Progress	0	0 [2]	0
79	3660	565000	8630C	Construction in Progress	0	0 [2]	0
80	3660	565000	94901	Construction in Progress	0	0 [2]	0
81	3660	565000	P1605	Construction in Progress	0	0 [2]	0
82	3660	565000	P1702	Construction in Progress	0	0 [2]	0
83				Total Operating Expenses	\$2,866,952	(\$2,532,983)	\$333,969
84				Total Stormwater Management	\$3,538,963	(\$2,528,699)	\$1,010,264
	3680			Debt Service			
85	3680	571220		Principal - 2012 Chase Note	\$64,976	(\$64,976) [3]	\$0
86	3680	571225		Principal - Bond Series 2014	172,155	(172,155) [3]	0
87	3680	572220		Interest - 2012 Chase Note	4,496	(4,496) [3]	0
88	3680	572225		Interest - Bond Series 2014	31,890	(31,890) [3]	0
89				Total Debt Service	\$273,517	(\$273,517)	\$0
	3695			Renewal & Replacement			
90	3695	549530		Administrative Charges to Fleet Services	\$164,159	\$0	\$164,159
91				Total Renewal & Replacement	\$164,159	\$0	\$164,159
92				Subtotal Stormwater Drainage	\$3,976,639	(\$2,802,216)	\$1,174,423
	8911			Charges to Other Funds			
93	8911	549001		Administrative Charges to the General Fund	\$170,502	\$0	\$170,502
94	8911	549160		Administrative Charges to the Transportation Fund	474	0	474
95	8911	549430		Administrative Charges to the Water Fund	406,837	0	406,837
96				Total Administrative Charges	\$577,813	\$0	\$577,813
	9009			Transfers to Other Funds			
97	9009	549880		Interfund Transfer to Capital Projects	\$0	\$0 [5]	\$0
98	9009	549890		Interfund Transfer to General Liability	10,500	(10,500) [4]	0
99				Total Transfers to Other Funds	\$10,500	(\$10,500)	\$0

Table 2-2
City of Hallandale Beach, Florida
Utility Rate Study

Fiscal Year 2018 Budgeted Stormwater Operating Expenses

Line No.	Department Code	Object Code	Project Code	Description	Budget 2018	Adjustments	Adjusted 2018
				Other			
100		599000		Capital Outlay Reclass	\$0	\$0	\$0
101				Contingency (1.00% of O&M) [6]	0	17,635	17,635
102				Bad Debt Expense (0.25% of Rate Revenues) [7]	0	11,289	11,289
103				Total Other	<u>\$0</u>	<u>\$28,924</u>	<u>\$28,924</u>
104				Total Stormwater Drainage Fund	<u><u>\$4,564,952</u></u>	<u><u>(\$2,783,792)</u></u>	<u><u>\$1,781,160</u></u>

Footnotes:

- [1] Based on budgeted figures for the Fiscal Year Ending September 30, 2018 as provided by the City.
- [2] Equipment expenses and other capital outlay are adjusted from projected operating expenses and reflected in the capital improvement program on Table 2-5.
- [3] Amounts reflect reductions in the operating budget for debt service payments associated with long-term debt. Such amounts are reflected in Table 2-6.
- [4] Amounts reflect reductions in the operating budget for intergovernmental transfers shown in Table 2-8.
- [5] Amount reflect reductions in the operating budget for transfers to the R&R Fund shown in Table 2-7.
- [6] Amount based on 1.00% of annual expenses to allow for unforeseen expenses.
- [7] Amount based on 0.25% of annual revenues to allow for uncollectible accounts.

**Table 2-3
City of Hallandale Beach, Florida
Utility Rate Study**

Projected Stormwater Operating Expenses

Line No.	Department Code	Object Code	Project Code	Description	Adjusted 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
							2019	2020	2021	2022
	3660			Stormwater Management						
				<u>Personnel Services</u>						
1	3660	512000		Regular Salaries and Wages	\$407,779	Personnel	\$420,012	\$432,613	\$445,591	\$458,959
	3660	AddPer		Additional Personnel	0	Calculated	0	57,500	59,300	122,200
2	3660	513000		Other Salaries and Wages	16,640	Personnel	17,139	17,653	18,183	18,728
3	3660	514000		Overtime Pay	14,500	Personnel	14,935	15,383	15,845	16,320
4	3660	515150		Auto and Travel Allowances	0	Personnel	0	0	0	0
5	3660	515250		Payouts - Civil Service	0	Personnel	0	0	0	0
6	3660	515300		Payouts - Sick Leave	0	Personnel	0	0	0	0
7	3660	515350		Payouts - Vacation Pay	0	Personnel	0	0	0	0
8	3660	515350		Sick Accrual Expense	0	Personnel	0	0	0	0
9	3660	515350		Vacation Accrual Expense	0	Personnel	0	0	0	0
10	3660	521050		Social Security	24,192	Personnel	24,918	25,665	26,435	27,228
11	3660	521100		Medicare	5,835	Personnel	6,010	6,190	6,376	6,567
12	3660	522150		Pensions - General Employees	65,121	Personnel	67,075	69,087	71,159	73,294
13	3660	522151		General GASB 68	0	Personnel	0	0	0	0
14	3660	522200		Pensions - ICMA 401a	25,743	Personnel	26,515	27,311	28,130	28,974
15	3660	522250		Pensions - OPEB	4,284	Personnel	4,412	4,545	4,681	4,821
16	3660	522300		401a Match Program	7,618	Personnel	7,847	8,082	8,324	8,574
17	3660	522350		Pensions - Retirement Health	6,908	Personnel	7,115	7,329	7,549	7,775
18	3660	523050		Health Insurance	91,434	Ins-Health	100,577	110,635	121,699	133,869
19	3660	523100		Dental Insurance	1,355	Ins-Health	1,491	1,640	1,804	1,984
20	3660	523150		Life Insurance	627	Ins-Health	690	759	835	918
21	3660	523200		Long-term Disability Insurance	555	Ins-Health	611	672	739	813
22	3660	524000		Workers' Compensation	3,704	Worker Comp	3,889	4,084	4,288	4,502
23				Total Personnel Services	\$676,295		\$703,236	\$789,146	\$820,937	\$915,527
				<u>Operating Expenses</u>						
24	3660	531010		Professional Services	\$76,800	ProfSvc	\$79,104	\$81,477	\$83,921	\$86,439
25	3660	531010	12161	Professional Services	0	ProfSvc	0	0	0	0
26	3660	531010	14411	Professional Services	0	ProfSvc	0	0	0	0
27	3660	531010	P1506	Professional Services	0	ProfSvc	0	0	0	0
28	3660	531010	P1603	Professional Services	0	ProfSvc	0	0	0	0
29	3660	531010	P1702	Professional Services	0	ProfSvc	0	0	0	0
30	3660	531010	P1801	Professional Services	0	ProfSvc	0	0	0	0
31	3660	532000		Accounting and Auditing	3,433	Inflation	3,512	3,596	3,683	3,771
32	3660	534010		Outside Services	53,500	ProfSvc	55,105	56,758	58,461	60,215
33	3660	534010	CM001	Outside Services	0	ProfSvc	0	0	0	0
34	3660	534010	P1512	Outside Services	0	ProfSvc	0	0	0	0
35	3660	534010	P1610	Outside Services	0	ProfSvc	0	0	0	0
36	3660	534010	P1612	Outside Services	0	ProfSvc	0	0	0	0
37	3660	534040		Special Events	0	Inflation	0	0	0	0
38	3660	541010		Phone and Communications	1,428	Inflation	1,461	1,496	1,532	1,569
39	3660	542000		Postage and Freight	12,741	Inflation	13,034	13,347	13,667	13,995
40	3660	543010		Electricity	75,000	Utility	78,750	82,688	86,822	91,163
41	3660	544010		Uniforms	1,687	Inflation	1,726	1,767	1,810	1,853
42	3660	544030		Equipment Rental	0	Inflation	0	0	0	0
43	3660	546040		Equipment Repairs	5,000	Repair	5,150	5,305	5,464	5,628
44	3660	546050		Computer Hardware Maintenance	0	Inflation	0	0	0	0
45	3660	546070		Equipment Maintenance Agreements	0	Repair	0	0	0	0
46	3660	546090		Office Equipment	0	Inflation	0	0	0	0
47	3660	546120		Storm Drains	29,760	Repair	30,653	31,572	32,520	33,495
48	3660	547000		Printing and Binding	8,000	Inflation	8,184	8,380	8,582	8,788
49	3660	549970		Contingencies	0	Eliminate	0	0	0	0
50	3660	549990		Working Reserves	0	Eliminate	0	0	0	0
51	3660	551000		Office Supplies	0	Inflation	0	0	0	0
52	3660	552010		Specialized Supplies	0	Inflation	0	0	0	0
53	3660	552030		Equipment and Tools	10,000	Repair	10,300	10,609	10,927	11,255
54	3660	552050		Medical Supplies	0	Inflation	0	0	0	0
55	3660	552060		Chemicals	0	Inflation	0	0	0	0
56	3660	552070		Small Furniture and Fixtures	0	Inflation	0	0	0	0
57	3660	552080		Traffic Control / Signs	1,000	Inflation	1,023	1,048	1,073	1,098
58	3660	552140		Diesel Fuel	24,308	Fuel	25,523	26,800	28,140	29,547
59	3660	552150		Motor Vehicle Fuel	5,160	Fuel	5,418	5,689	5,973	6,272
60	3660	552160		Grease, Oil, and Lubricants	0	Inflation	0	0	0	0
61	3660	552170		Computer Equipment and Supplies	0	Inflation	0	0	0	0
62	3660	552200		Uniforms / Protective Clothing	2,260	Inflation	2,312	2,367	2,424	2,482
63	3660	552230		CM Project / Program Supplies	0	Inflation	0	0	0	0
64	3660	552250		Machinery Parts	1,000	Repair	1,030	1,061	1,093	1,126
65	3660	552280		Purchased Water	0	Inflation	0	0	0	0
66	3660	552300		Drafting Supplies	0	Inflation	0	0	0	0
67	3660	554010		Books and Publications	0	Inflation	0	0	0	0
68	3660	554030		Dues and Memberships	1,560	Inflation	1,596	1,634	1,673	1,714
69	3660	554040		Internet Subscriptions	0	Inflation	0	0	0	0
70	3660	555010		Computer Training	1,500	Inflation	1,535	1,571	1,609	1,648
71	3660	555020		Meetings and Seminars	1,200	Inflation	1,228	1,257	1,287	1,318
72	3660	555040		General Employee Training	4,325	Inflation	4,424	4,531	4,639	4,751
73	3660	555060		License and Certification	14,307	Inflation	14,636	14,987	15,347	15,715
74	3660	559010		Depreciation Expense	0	Eliminate	0	0	0	0
75	3660	564040		Machinery and Equipment	0	Eliminate	0	0	0	0
76	3660	564070	12161	Computer Equipment	0	Eliminate	0	0	0	0
77	3660	565000	14411	Construction in Progress	0	Eliminate	0	0	0	0
78	3660	565000	8630C	Construction in Progress	0	Eliminate	0	0	0	0
79	3660	565000	94901	Construction in Progress	0	Eliminate	0	0	0	0
80	3660	565000	P1605	Construction in Progress	0	Eliminate	0	0	0	0
81	3660	565000	P1702	Construction in Progress	0	Eliminate	0	0	0	0
82				Total Operating Expenses	\$333,969		\$345,703	\$357,940	\$370,646	\$383,840
83				Total Stormwater Management	\$1,010,264		\$1,048,939	\$1,147,086	\$1,191,583	\$1,299,367

**Table 2-3
City of Hallandale Beach, Florida
Utility Rate Study**

Projected Stormwater Operating Expenses

Line No.	Department Code	Object Code	Project Code	Description	Adjusted 2018	Escalation Reference [2]	Projected Fiscal Year Ending September 30,			
							2019	2020	2021	2022
	3680			Debt Service						
84	3680	571220		Principal - 2012 Chase Note	\$0	Eliminate	\$0	\$0	\$0	\$0
85	3680	571225		Principal - Bond Series 2014	0	Eliminate	0	0	0	0
86	3680	572220		Interest - 2012 Chase Note	0	Eliminate	0	0	0	0
87	3680	572225		Interest - Bond Series 2014	0	Eliminate	0	0	0	0
88				Total Debt Service	<u>\$0</u>		<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
	3695			Renewal & Replacement						
89	3695	549530		Administrative Charges to Fleet Services	\$164,159	Repair	\$169,084	\$174,156	\$179,381	\$184,762
90				Total Renewal & Replacement	<u>\$164,159</u>		<u>\$169,084</u>	<u>\$174,156</u>	<u>\$179,381</u>	<u>\$184,762</u>
91				Subtotal Stormwater Drainage	<u>\$1,174,423</u>		<u>\$1,218,023</u>	<u>\$1,321,243</u>	<u>\$1,370,964</u>	<u>\$1,484,129</u>
	8911			Charges to Other Funds						
92	8911	549001		Administrative Charges to the General Fund [3]	\$170,502	Personnel	\$143,018	\$147,308	\$151,727	\$156,279
93	8911	549160		Administrative Charges to the Transportation Fund	474	Personnel	488	503	518	533
94	8911	549430		Administrative Charges to the Water Fund	406,837	Personnel	419,042	431,613	444,562	457,899
95				Total Charges to Other Funds	<u>\$577,813</u>		<u>\$562,548</u>	<u>\$579,424</u>	<u>\$596,807</u>	<u>\$614,711</u>
	9009			Transfers to Other Funds						
96	9009	549880		Interfund Transfer to Capital Projects	\$0	Eliminate	\$0	\$0	\$0	\$0
97	9009	549890		Interfund Transfer to General Liability	0	Ins-Property	0	0	0	0
98				Total Transfers to Other Funds	<u>\$0</u>		<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>
				Other						
99				Capital Outlay Reclass	\$0	Eliminate	\$0	\$0	\$0	\$0
100				Contingency (1.00% of O&M) [4]	17,635	Calculated	17,920	19,122	19,793	21,105
101				Bad Debt Expense (0.25% of Rate Revenues) [5]	11,289	Calculated	11,387	11,487	11,577	11,701
102				Total Other	<u>\$28,924</u>		<u>\$29,306</u>	<u>\$30,608</u>	<u>\$31,371</u>	<u>\$32,807</u>
103				Total Stormwater Operating Expenses	<u>\$1,781,160</u>		<u>\$1,809,877</u>	<u>\$1,931,275</u>	<u>\$1,999,142</u>	<u>\$2,131,647</u>
104				Percent Change	<u>N/A</u>		<u>1.6%</u>	<u>6.7%</u>	<u>3.5%</u>	<u>6.6%</u>

Footnotes:

- [1] Amounts derived from Table 2-2.
- [2] The escalation references and amounts are derived from Table 2-4.
- [3] Per discussions with the City, fiscal year 2019 is the last year of a phase down program in this cost center.
- [4] Amount based on 1.00% of annual expenses to allow for unforeseen expenses.
- [5] Amount based on 0.25% of annual revenues to allow for uncollectible accounts.

Table 2-4
City of Hallandale Beach, Florida
Utility Rate Study

Summary of System Expense Escalation Factors

Line No.	Description	Reference	Fiscal Year Ending September 30,			
			2019	2020	2021	2022
1	Constant	Constant	1.0000	1.0000	1.0000	1.0000
2	General Inflation (CPI-U Index) [1]	Inflation	1.0230	1.0240	1.0240	1.0240
3	Marginal Escalator	Margin	1.0100	1.0100	1.0100	1.0100
4	Labor and Benefits Escalator	Personnel	1.0300	1.0300	1.0300	1.0300
5	Life/Health/Disability Insurance Escalator	Ins-Health	1.1000	1.1000	1.1000	1.1000
6	Property Insurance Escalator	Ins-Property	1.0300	1.0300	1.0300	1.0300
7	Repair and Maintenance	Repair	1.0300	1.0300	1.0300	1.0300
8	Workers' Compensation	Worker Comp	1.0500	1.0500	1.0500	1.0500
9	Electric Utility Costs	Utility	1.0500	1.0500	1.0500	1.0500
10	Fuel	Fuel	1.0500	1.0500	1.0500	1.0500
11	ERU Growth + Inflation	Inf/ERU	1.0319	1.0330	1.0321	1.0350
12	Rate Revenue	Revenue	1.0087	1.0088	1.0079	1.0107
13	Elimination Factor	Eliminate	0.0000	0.0000	0.0000	0.0000
14	Professional Services	ProfSvc	1.0300	1.0300	1.0300	1.0300

Footnotes:

[1] Inflation figures obtained from the "The Budget and Economic Outlook: An Update" published by the Congressional Budget Office as of June 2017.

**Table 2-5
City of Hallandale Beach, Florida
Utility Rate Study**

Projected Capital Improvement Program Funding Plan

Line No.	Description	Project Number	Escalation Factor	Funding Source	Adjusted 2018	Fiscal Year Ending September 30,				Totals
						2019	2020	2021	2022	
<u>Capital Escalation</u>										
1	No Assumed Escalation (0.0% per year)		None		1.0000	1.0000	1.0000	1.0000	1.0000	
2	Inflation (~2.4% per year)		Inflation		1.0000	1.0230	1.0476	1.0727	1.0984	
3	ENR Index Average (3.0% per year)		ENR		1.0000	1.0300	1.0609	1.0927	1.1255	
4	Marginal Increase (1.0% per year)		Marginal		1.0000	1.0100	1.0201	1.0303	1.0406	
5	High Increase (5.0% per year)		High		1.0000	1.0500	1.1025	1.1576	1.2155	
<u>Capital Expenditures</u>										
6	Community Block Development Grant (CDBG) 43rd Year Public Works	P1801	ENR	Rates	\$50,000	\$0	\$0	\$0	\$0	\$50,000
7	Community Block Development Grant (CDBG) 43rd Year Public Works - Split Funding	P1801	ENR	Grants	106,500	0	0	0	0	106,500
8	NE14th Avenue Enhanced Landscaping	P1605	ENR	Rates	42,665	0	0	0	0	42,665
9	SW/SE Drainage Improvement (City Share)	P1610	ENR	Rates	2,218,200	2,060,000	0	0	0	4,278,200
10	SW/SE Drainage Improvement - Split Funding		ENR	Grants	148,875	0	0	0	0	148,875
11	Community Block Development Grant (CDBG) 42nd Year Public Works	P1702	ENR	Rates	101,870	0	0	0	0	101,870
12	Community Block Development Grant (CDBG) 42nd Year Public Works - Split Funding	P1702	ENR	Grants	109,842	0	0	0	0	109,842
13	Sweeper Truck	988	Inflation	Rates	190,000	0	0	0	0	190,000
14	NE14th Avenue Pump Maintenance - Four (4) Stormwater Pumps		ENR	Rates	30,000	0	0	0	0	30,000
15	Repair and Maintenance of Large Diameter Pipes		ENR	Rates	200,000	0	0	0	0	200,000
16	CDBG 42, 43, 44, 45, 46 (match)		ENR	Rates	0	51,500	53,045	54,636	56,275	215,457
17	Retention Pond (King Estates) Dredging and Banks Stabilization		ENR	Rates	0	515,000	530,450	546,364	0	1,591,814
18	Shaffer Canal Dredging and Banks Stabilization		ENR	Rates	0	515,000	530,450	546,364	562,754	2,154,568
19	SE 14 Ave. Canal - Mangroves Trimming and Cleaning		ENR	Rates	0	206,000	0	0	0	206,000
20	Drainage Project		ENR	Rates	0	515,000	636,540	655,636	675,305	2,482,481
21	Large Diameter Stormwater Pipe Replacement / New Installatio		ENR	Rates	0	206,000	212,180	218,545	112,551	749,276
22	Public Works Complex Allocation		ENR	Rates	0	0	0	218,545	135,061	353,606
23	Departmental Capital Outlay	DCO	Inflation	Rates	\$25,000	\$25,575	\$26,189	\$26,817	\$27,461	\$131,042
24	Total Capital Expenditures				<u>\$3,222,952</u>	<u>\$4,094,075</u>	<u>\$1,988,854</u>	<u>\$2,266,908</u>	<u>\$1,569,408</u>	<u>\$13,142,196</u>
<u>Funding Sources</u>										
25	Rate Revenues / Operating Reserves			Rates	\$2,857,735	\$4,094,075	\$1,988,854	\$2,266,908	\$1,569,408	\$12,776,979
26	Renewal and Replacement Fund			RR	0	0	0	0	0	0
27	Other Interfund Transfers			Other	0	0	0	0	0	0
28	Grants / Other Contributions			Grants	365,217	0	0	0	0	365,217
29	Additional Debt 1			Debt1	0	0	0	0	0	0
30	Additional Debt 2			Debt2	0	0	0	0	0	0
31	Additional Debt 3			Debt3	0	0	0	0	0	0
32	Additional Debt 4			Debt4	0	0	0	0	0	0
33	Total Funding Sources				<u>\$3,222,952</u>	<u>\$4,094,075</u>	<u>\$1,988,854</u>	<u>\$2,266,908</u>	<u>\$1,569,408</u>	<u>\$13,142,196</u>

Table 2-6
City of Hallandale Beach, Florida
Utility Rate Study

Projection of Existing and Proposed Debt Service Payments

Line No.	Description	Projected Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
EXISTING DEBT SERVICE						
1	JP Morgan Chase Revenue Note 2012 Total Annual Debt Service	\$69,472	\$68,497	\$68,563	\$68,613	\$69,686
2	BB&T 2014 Refunding Loan Total Annual Debt Service	\$204,044	\$205,226	\$204,608	\$205,599	\$206,475
3	Total Existing Annual Debt Service	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
PROPOSED DEBT SERVICE						
4	Additional Debt 1 Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0
5	Additional Debt 2 Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0
6	Additional Debt 3 Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0
7	Additional Debt 4 Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0
8	TOTAL PROPOSED DEBT SERVICE Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0
9	TOTAL DEBT SERVICE Total Annual Debt Service	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161

Table 2-7
City of Hallandale Beach, Florida
Utility Rate Study

Projected Transfer to Renewal and Replacement Fund

Line No.	Description	Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
	<u>Projected Prior Year Gross Revenues</u>	2017	2018	2019	2020	2021
1	Stormwater Drainage Fees	\$2,039,377	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957
2	Additional Revenue from Rate Increases	0	0	0	0	0
3	Subtotal Stormwater Drainage Fees	\$2,039,377	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957
4	Non-Operating Revenues	\$46,877	\$39,321	\$39,967	\$40,633	\$41,318
5	Interest Income	11,200	9,371	7,071	5,571	6,271
6	Projected Gross Revenues (Prior Year)	\$2,097,454	\$4,564,323	\$4,601,760	\$4,640,900	\$4,678,547
7	Projected Funding Requirement (% of Revenue)	5.0%	7.0%	8.0%	9.0%	10.0%
8	Total Projected Transfers to the R&R Fund	\$105,000	\$320,000	\$368,000	\$418,000	\$468,000

Table 2-8
City of Hallandale Beach, Florida
Utility Rate Study

Projected Intergovernmental Transfers

Line No.	Description	Budget 2018	Escalation Reference	Projected Fiscal Year Ending September 30,			
				2019	2020	2021	2022
<u>Interfund Transfers</u>							
1	Interfund Transfer to Capital Projects	\$0	Constant	\$0	\$0	\$0	\$0
2	Interfund Transfer to General Liability	10,500	Ins-Property	10,815	11,139	11,474	11,818
3	Total Interfund Transfers	<u>\$10,500</u>		<u>\$10,815</u>	<u>\$11,139</u>	<u>\$11,474</u>	<u>\$11,818</u>
4	Total Administrative Charges & Transfers	<u>\$10,500</u>		<u>\$10,815</u>	<u>\$11,139</u>	<u>\$11,474</u>	<u>\$11,818</u>

Table 2-9
City of Hallandale Beach, Florida
Utility Rate Study

Projected Fund Balances & Interest Income

Line No.	Description	Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
OPERATING FUND						
1	Beginning Balance [1]	\$3,889,594	\$3,426,007	\$1,519,276	\$1,587,737	\$1,296,549
Non-operating Transfers (Beginning Balances):						
2	Additional Transfer to R&R Fund	\$0	\$0	\$0	\$0	\$0
3	Additional Transfer to Capital Fund	0	0	0	0	0
4	Net Amount Available for Operations	\$3,889,594	\$3,426,007	\$1,519,276	\$1,587,737	\$1,296,549
5	Transfers In	4,564,323	4,601,760	4,640,900	4,678,547	4,729,880
6	Transfers Out	5,027,910	6,508,490	4,572,439	4,969,734	4,457,034
7	Interest Rate (Short Term)	0.25%	0.25%	0.25%	0.25%	0.25%
8	Interest Income	9,100	6,200	3,900	3,600	3,600
9	Recognition Of Interest in Revenue Requirements	9,100	6,200	3,900	3,600	3,600
10	Ending Balance	\$3,426,007	\$1,519,276	\$1,587,737	\$1,296,549	\$1,569,396
RENEWAL AND REPLACEMENT FUND						
11	Beginning Balance	\$0	\$105,000	\$425,000	\$793,000	\$1,211,000
12	Transfers In	105,000	320,000	368,000	418,000	468,000
13	Transfers Out	0	0	0	0	0
14	Interest Rate (Short Term)	0.25%	0.25%	0.25%	0.25%	0.25%
15	Interest Income	100	700	1,500	2,500	3,600
16	Recognition Of Interest in Revenue Requirements	100	700	1,500	2,500	3,600
17	Ending Balance	\$105,000	\$425,000	\$793,000	\$1,211,000	\$1,679,000
DEBT SERVICE SINKING FUND						
18	Annual Sinking Fund Deposit	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
19	Average Balance	68,379	68,431	68,293	68,553	69,040
20	Interest Rate (Short Term)	0.25%	0.25%	0.25%	0.25%	0.25%
21	Interest Income	171	171	171	171	173
22	Recognition Of Interest in Revenue Requirements	171	171	171	171	173
23	TOTAL UNRESTRICTED INTEREST INCOME	\$9,371	\$7,071	\$5,571	\$6,271	\$7,373
24	TOTAL RESTRICTED INTEREST INCOME	\$0	\$0	\$0	\$0	\$0

Footnotes:

[1] Starting cash based on audited trial balances as of 9/30/2017.

Table 2-10
City of Hallandale Beach, Florida
Utility Rate Study

Development of Net Revenue Requirements from Rates

Line No.	Description	Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
Projected Operating Expenses & Administrative Charges [1]						
1	Stormwater Management Expenses & Administrative Charges:	\$1,781,160	\$1,809,877	\$1,931,275	\$1,999,142	\$2,131,647
2	Total Operating Expenses & Administrative Charges:	\$1,781,160	\$1,809,877	\$1,931,275	\$1,999,142	\$2,131,647
Other Revenue Requirements						
Debt Service [2]						
3	Existing	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
4	Proposed	0	0	0	0	0
5	Total Debt Service	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
6	Administrative Charges & Transfers [3]	\$10,500	\$10,815	\$11,139	\$11,474	\$11,818
7	Capital Funded From Rates [4]	2,857,735	4,094,075	1,988,854	2,266,908	1,569,408
8	Transfer to RR&I Fund [5]	105,000	320,000	368,000	418,000	468,000
9	Transfer to System Upgrade & Improvement Func	0	0	0	0	0
10	Deposit to Reserves	0	0	0	0	0
11	Total Other Revenue Requirements	\$3,246,750	\$4,698,613	\$2,641,164	\$2,970,593	\$2,325,386
12	Gross Revenue Requirements:	\$5,027,910	\$6,508,490	\$4,572,439	\$4,969,734	\$4,457,034
Less Income and Funds from Other Sources						
13	Other Operating Revenues [6]	\$39,321	\$39,967	\$40,633	\$41,318	\$42,025
14	Unrestricted Interest Income [7]	9,371	7,071	5,571	6,271	7,373
15	Use of Reserves	0	0	0	0	0
16	Net Revenue Requirements	\$4,979,218	\$6,461,452	\$4,526,236	\$4,922,145	\$4,407,636
Projected Revenues						
17	Revenues at Existing Rates [8]	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957	\$4,680,483
18	Prior Year Rate Adjustment	0	0	0	0	0
19	Total Applicable Rate Revenue	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957	\$4,680,483
Current Year Rate Adjustments						
20	Current Year Rate Adjustment	0.0%	0.0%	0.0%	0.0%	0.0%
	Effective Month	October	October	October	October	October
21	% of Current Year Effective	100.0%	100.0%	100.0%	100.0%	100.0%
22	Total Revenue from Current Year Adjustments	\$0	\$0	\$0	\$0	\$0
23	Total Revenue from Rates	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957	\$4,680,483
24	Revenue Surplus/(Deficiency) [9]	(\$463,587)	(\$1,906,730)	\$68,460	(\$291,188)	\$272,847
25	Surplus/(Deficiency) - Percent of Rate Revenues	(10.3%)	(41.9%)	1.5%	(6.3%)	5.8%
Available Cash Balances - Year End Balance						
		Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
26	Operating Fund	\$3,426,007	\$1,519,276	\$1,587,737	\$1,296,549	\$1,569,396
27	Renewal & Replacement Fund	105,000	425,000	793,000	1,211,000	1,679,000
28	System Upgrade & Improvement Fund	0	0	0	0	0
29	Construction Fund	0	0	0	0	0
30	Total Available Cash Balances	\$3,531,007	\$1,944,276	\$2,380,737	\$2,507,549	\$3,248,396
Unrestricted Operating Fund						
31	Days of Revenues - Calculated	277	122	126	102	122
32	Days of Revenues - Minimum Target Balance	90	90	90	90	90
33	Days of Revenues - Average Target Balance	120	120	120	120	120

Table 2-10
City of Hallandale Beach, Florida
Utility Rate Study

Development of Net Revenue Requirements from Rates

Line No.	Description	Fiscal Year Ending September 30,				
		2018	2019	2020	2021	2022
Unrestricted Operating Fund & R&R Fund						
35	Days of Revenues - Calculated	285	156	189	198	253
36	Days of Revenues - Target	180	180	180	180	180
37	Existing Rate per ERU per Month	\$7.37	\$7.37	\$7.37	\$7.37	\$7.37
38	Proposed Rate per ERU per Month	\$7.37	\$7.37	\$7.37	\$7.37	\$7.37
39	Proposed Rate per ERU per Year	<u>\$88.44</u>	<u>\$88.44</u>	<u>\$88.44</u>	<u>\$88.44</u>	<u>\$88.44</u>

Footnotes:

- [1] Amounts shown based on Table 2-3.
[2] Amounts shown based on Table 2-6.
[3] Amounts shown based on Table 2-8.
[4] Amounts shown based on Table 2-5.
[5] Amounts shown based on Table 2-7.
[6] Amounts shown based on Table 2-1.
[7] Amounts shown based on Table 2-9.
[8] Amounts shown based on Table 2-1.
[9] Any operating surpluses are assumed to be deposited to operating reserves and any operating deficiencies are assumed to be funded from operating res

Table 2-11
City of Hallandale Beach, Florida
Utility Rate Study

Projected Debt Service Coverage

Line No.	Description	Projected Fiscal Year Ending September 30, [1]				
		2018	2019	2020	2021	2022
<u>Projected Net Revenues</u>						
<u>Gross Revenues</u>						
Sales Revenues						
1	Revenues At Existing Rates	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957	\$4,680,483
2	Additional Rate Revenues	0	0	0	0	0
3	Total	\$4,515,631	\$4,554,721	\$4,594,696	\$4,630,957	\$4,680,483
4	Other Operating Revenue	\$39,321	\$39,967	\$40,633	\$41,318	\$42,025
5	Unrestricted Interest Income	9,371	7,071	5,571	6,271	7,373
6	Total Gross Revenues	\$4,564,323	\$4,601,760	\$4,640,900	\$4,678,547	\$4,729,880
<u>Operating Expenses</u>						
7	Stormwater Management Expenses & Administrative Charges	\$1,781,160	\$1,809,877	\$1,931,275	\$1,999,142	\$2,131,647
8	Total Operating Expenses	\$1,781,160	\$1,809,877	\$1,931,275	\$1,999,142	\$2,131,647
9	Net Revenues	\$2,783,163	\$2,791,883	\$2,709,625	\$2,679,405	\$2,598,233
<u>Annual Debt Service Payments</u>						
<u>Existing Debt Service</u>						
10	JP Morgan Chase Revenue Note 2012	\$69,472	\$68,497	\$68,563	\$68,613	\$69,686
11	BB&T 2014 Refunding Loan	204,044	205,226	204,608	205,599	206,475
12	Total Existing Debt Service	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
<u>Proposed Debt Service</u>						
13	Additional Debt 1	\$0	\$0	\$0	\$0	\$0
14	Additional Debt 2	0	0	0	0	0
15	Additional Debt 3	0	0	0	0	0
16	Additional Debt 4	0	0	0	0	0
17	Total Proposed Debt Service	\$0	\$0	\$0	\$0	\$0
18	Total Annual Debt Service Payments	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
<u>All-In Debt Service Coverage Test</u>						
19	Net Revenues	\$2,783,163	\$2,791,883	\$2,709,625	\$2,679,405	\$2,598,233
20	Total Annual Debt Service Payments	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
21	Calculated Debt Service Coverage	1017.55%	1019.97%	991.92%	977.13%	940.84%
22	Target Debt Service Coverage - 150%	150.00%	150.00%	150.00%	150.00%	150.00%
<u>Senior Lien Debt Service Coverage Test</u>						
23	Net Revenues	\$2,783,163	\$2,791,883	\$2,709,625	\$2,679,405	\$2,598,233
24	Total Annual Debt Service Payments	\$273,515	\$273,723	\$273,171	\$274,211	\$276,161
25	Calculated Debt Service Coverage	1017.55%	1019.97%	991.92%	977.13%	940.84%
26	Minimum Required Debt Service Coverage - 115%	115.00%	115.00%	115.00%	115.00%	115.00%

Table 2-12
City of Hallandale Beach, Florida
Stormwater Utility Rate Study

Comparison of Monthly Residential Stormwater Rates [1]

Line No.	Description	Monthly Charge	Annual Charge	Impervious Square Feet
City of Hallandale Beach				
1	Existing Rates - Fiscal Year 2019	\$7.37	\$88.44	958
2	Proposed Rates - Fiscal Year 2020	7.37	88.44	958
Other Florida Utilities:				
3	Broward County	N/A	N/A	N/A
4	City of Coconut Creek	\$3.71	\$44.52	2,070
5	City of Cooper City	3.22	38.64	1,750
6	City of Coral Springs	N/A	N/A	N/A
7	City of Dania Beach	3.33	40.00	N/A
8	Town of Davie	N/A	N/A	N/A
9	City of Deerfield Beach	N/A	N/A	N/A
10	City of Fort Lauderdale	10.00	120.00	N/A
11	City of Hollywood	3.22	38.64	2,250
12	City of Lauderhill	16.81	201.72	3,800
13	City of Lauderdale Lakes	6.25	75.00	2,133
14	City of Margate	5.46	65.52	2,328
15	City of Miramar	7.00	84.00	3,619
16	City of North Lauderdale	6.00	72.00	2,138
17	City of Oakland Park	7.00	84.00	1,507
18	City of Pembroke Pines	N/A	N/A	N/A
19	City of Plantation	2.50	30.00	4,489
20	City of Pompano Beach	4.21	50.52	2,880
21	City of Sunrise	8.09	97.08	1,884
22	City of Tamarac	10.34	124.09	1,830
23	City of Weston	N/A	N/A	N/A
24	City of Wilton Manors	5.31	63.72	3,460
25	Other Florida Utilities' Average	<u>\$6.40</u>	<u>\$76.84</u>	<u>2,581</u>

Footnotes:

- [1] Unless otherwise noted, amounts shown reflect residential rates in effect October 2017 and are exclusive of taxes or franchise fees, if any, and reflect rates charged for inside the city service. All rates are as reported by the respective utility. This comparison is intended to show comparable charges for similar service for comparison purposes only and is not intended to be a complete listing of all rates and charges offered by each listed utility.

APPENDIX 2-A

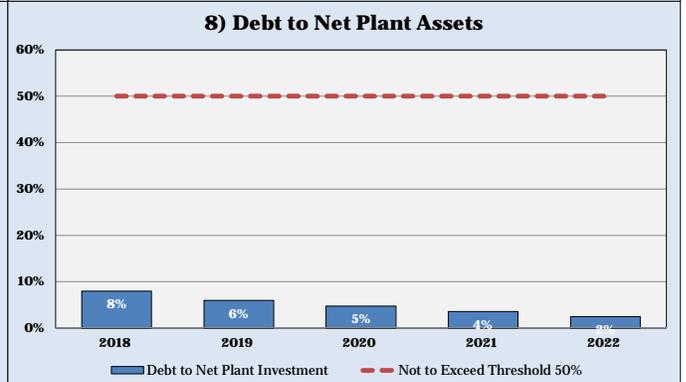
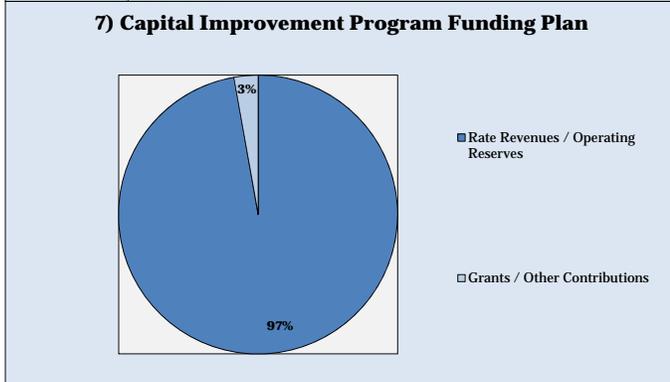
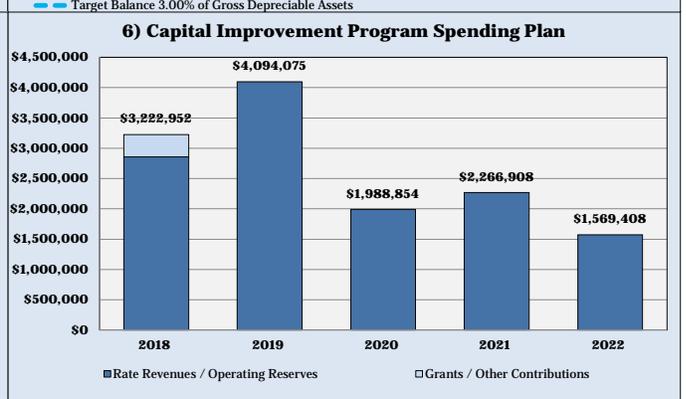
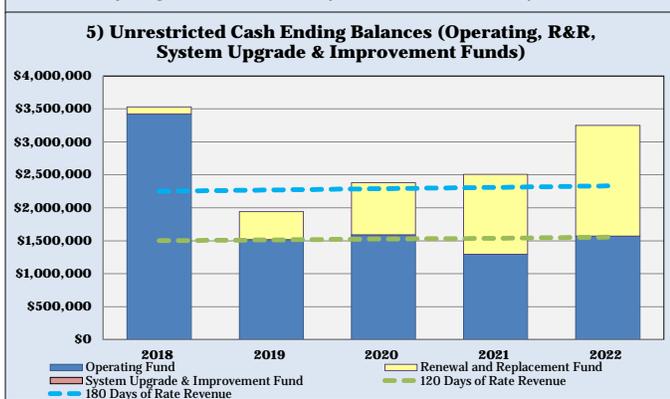
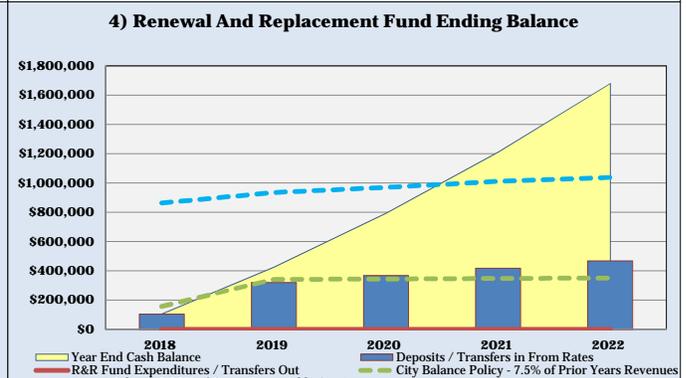
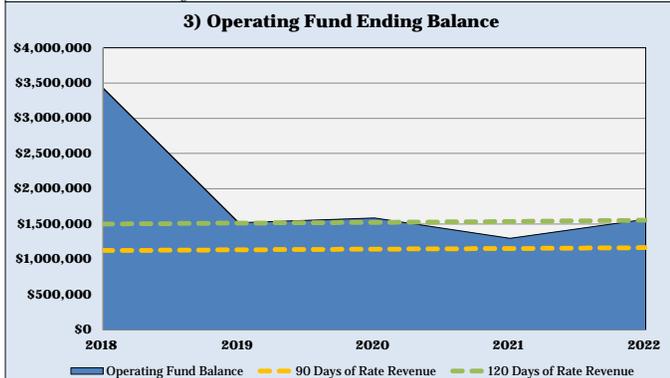
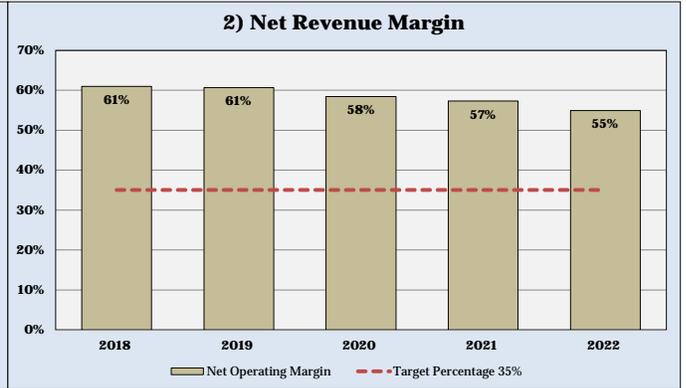
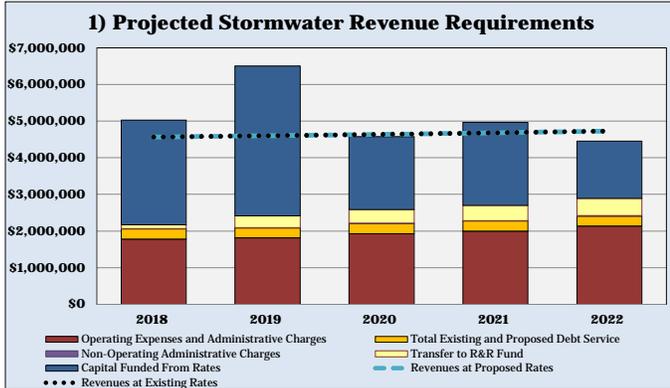


Appendix 2
City of Hallandale Beach, Florida
Utility Rate Study



Stormwater System Financial Dashboards and Performance Metrics

Description	2018	2019	2020	2021	2022	Description	2018 Base	2018	2019	2020	2021	2022
Recognized Revenue Adjustments:						System Surplus / (Deficiency)	N/A	(\$463,587)	(\$1,906,730)	\$68,460	(\$291,188)	\$272,847
Stormwater Rate Increase	0.00%	0.00%	0.00%	0.00%	0.00%	Percent of Rate Revenues	N/A	-10.3%	-41.9%	1.5%	-6.3%	5.8%
Effective Month of Increase	October	October	October	October	October	Average Residential Bill:						
Cumulative Rate Adjustment	0.00%	0.00%	0.00%	0.00%	0.00%	Stormwater Monthly Fee	\$7.37	\$7.37	\$7.37	\$7.37	\$7.37	\$7.37
						Monthly Increase - Total	N/A	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00





Appendix 2
City of Hallandale Beach, Florida
Utility Rate Study



Stormwater System Financial Dashboards and Performance Metrics

Description	2018	2019	2020	2021	2022	Description	2018 Base	2018	2019	2020	2021	2022
Recognized Revenue Adjustments:						System Surplus / (Deficiency)	N/A	(\$463,587)	(\$1,906,730)	\$68,460	(\$291,188)	\$272,847
Stormwater Rate Increase	0.00%	0.00%	0.00%	0.00%	0.00%	Percent of Rate Revenues	N/A	-10.3%	-41.9%	1.5%	-6.3%	5.8%
Effective Month of Increase	October	October	October	October	October	Average Residential Bill:						
Cumulative Rate Adjustment	0.00%	0.00%	0.00%	0.00%	0.00%	Stormwater Monthly Fee	\$7.37	\$7.37	\$7.37	\$7.37	\$7.37	\$7.37
						Monthly Increase - Total	N/A	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

