



CITY OF MAITLAND, FLORIDA
WATER & SEWER FUND
FY 2018 BUDGET



The Water & Sewer Fund accounts for the activities of the City’s water and wastewater systems. After completion of a rate study in the beginning of FY 2015, the adoption of a five-year rate increase for water, sewer and irrigation rates was implemented starting January 1, 2015. The current rate schedule is included at the end of this Water and Sewer Fund section. The chart below shows the rate increases scheduled for the start of FY 2018 and FY 2019, as well as the average monthly increase for a typical user.

Summary of Water and Wastewater Revenue Adjustments				
Effective Date	Water System	Wastewater System	Combined System	Increase in Average Customer Monthly Bill [*]
October 1, 2017	6.40%	4.07%	5.14%	3.21
October 1, 2018	5.97%	3.95%	5.16%	3.22
[*] Based on single family residential customer with 6,000 gallons of monthly usage				

The Water & Sewer Fund is an enterprise or business-type activity designed to be self-supporting, and the budget is presented in an income statement format. Additionally, a cash flow statement is presented, as the fund has significant capital investments (depreciation and amortization of capital assets and sewer capacity), as well as capital outlays of \$23.5 million for the next five year planning horizon. The City has borrowed \$10 million in the form of Utility Revenue Note, Series 2015 to help cover these future outlays. In addition, the City anticipates borrowing an additional \$10 million in FY 2018 or FY 2019 to help cover these capital outlays. At the set rates for FY 2018 and estimated consumption levels, the FY 2018 budget reflects a total net income of \$478 thousand, inclusive of capital contributions (water and sewer connection fees) but the result of operations subject to debt service coverage is \$1.96 million.

The majority of contractual services relate to wastewater treatment expenses by the City of Altamonte and City of Orlando Iron Bridge regional wastewater treatment facilities, as the City of Maitland does not operate its own treatment plant. Administrative charges are allocated for General Fund direct support to the operations of the water and wastewater

programs. Specifically, this includes administration, engineering, billing and collection, customer service and information technology.

Below is the FY 2018 proposed budget:

WATER & SEWER UTILITY FUND PRO FORMA STATEMENT OF INCOME				
	FY 2017	FY 2018	FY 2019	FY 2020
Operating Revenues				
Water System	\$ 3,256,000	\$ 3,634,000	\$ 3,854,000	\$ 3,976,000
Wastewater System	3,430,000	3,541,000	3,691,000	3,811,000
Miscellaneous Revenues	-	-	-	-
Total Operating Revenues	6,686,000	7,175,000	7,545,000	7,787,000
Operating Expenses				
Personnel Services	865,680	1,149,600	1,183,284	1,222,829
Contractual Services	1,221,001	1,220,000	1,298,065	1,331,784
Materials and Supplies	691,945	816,900	826,700	836,284
Maintenance	808,632	824,600	500,036	937,013
Administrative Expenses	1,471,388	1,204,320	1,228,406	1,251,317
Total Operating Expenses	5,058,646	5,215,420	5,036,491	5,579,227
Operating Income Subject to Debt Coverage	1,627,354	1,959,580	2,508,509	2,207,773
Depreciation and Amortization	706,000	806,004	825,478	845,478
Total Operating Expenses	5,764,646	6,021,424	5,861,969	6,424,705
Operating Income (Loss)	921,354	1,153,576	1,683,031	1,362,295
Non-Operating Revenues (Expenses)				
Debt Service	(837,700)	(820,200)	(1,236,000)	(1,490,000)
Investment Income	22,000	45,000	45,000	45,000
Gain (Loss) on Sale of Assets	54,100	-	-	-
Total Non-Operating	(761,600)	(775,200)	(1,191,000)	(1,445,000)
Income (Loss) Before Contributions	159,754	378,376	492,031	(82,705)
Capital Contributions	750,000	100,000	100,000	100,000
Net Income (Loss)	909,754	478,376	592,031	17,295
Beginning Total Net Position	18,045,791	18,955,545	19,433,921	20,025,952
Ending Total Net Position	\$ 18,955,545	\$ 19,433,921	\$ 20,025,952	\$ 20,043,247

Below is the projected cash flow for the fund for FY 2018 and two plan years:

WATER & SEWER UTILITY FUND CASH FLOW				
	FY 2017	FY 2018	FY 2019	FY 2020
Cash flows from operating activities:				
Operating revenues	\$ 6,686,000	\$ 7,175,000	\$ 7,545,000	\$ 7,787,000
Operating expenditures ¹	<u>(5,058,646)</u>	<u>(5,215,420)</u>	<u>(5,036,491)</u>	<u>(5,579,227)</u>
Net cash provided by operating activities	<u>1,627,354</u>	<u>1,959,580</u>	<u>2,508,509</u>	<u>2,207,773</u>
Cash flows from capital and related financing activities:				
Receipts from connection fees	750,000	100,000	100,000	100,000
Utility bond proceeds	-	10,000,000	-	-
Debt service	(837,700)	(820,200)	(1,236,000)	(1,490,000)
Capital outlay	<u>(10,673,563)</u>	<u>(3,903,050)</u>	<u>(7,108,025)</u>	<u>(1,836,728)</u>
Net cash provided by (used in) capital and related financing activities	<u>(10,761,263)</u>	<u>5,376,750</u>	<u>(8,244,025)</u>	<u>(3,226,728)</u>
Cash flows from investing activities:				
Investment income	<u>22,000</u>	<u>45,000</u>	<u>45,000</u>	<u>45,000</u>
Net cash provided by investing activities	<u>22,000</u>	<u>45,000</u>	<u>45,000</u>	<u>45,000</u>
Net increase (decrease) in cash and cash equivalents:	(9,111,910)	7,381,330	(5,690,516)	(973,955)
Cash and cash equivalents, beginning of year	<u>10,652,549</u>	<u>1,540,639</u>	<u>8,921,969</u>	<u>3,231,453</u>
Cash and cash equivalents, end of period	<u>\$ 1,540,639</u>	<u>\$ 8,921,969</u>	<u>\$ 3,231,453</u>	<u>\$ 2,257,498</u>

¹ Operating expenses less depreciation and amortization.

Below are the Water and Wastewater Capital Improvements Plans for FY 2018 – FY 2022.

Water CIP Project Description: This program provides for production and distribution of potable water in the required amounts where and when requested. It includes adding transmission mains to increase pressure and flows to provide for adequate fire protection in the residential areas throughout system. Automatic Metering Infrastructure increases meter reading accuracy and efficiency, the entire distribution network can be continuously monitored by hourly interval reads, data and information can be shared with customers, providing tools needed to conserve water efficiently. Matching funds will be requested from SJRWMD.

FY 2018 includes contracting for the installation of 550 cross connection control devices to meet FDEP requirement.

FY 2019 includes construction of 12-inch water main on Orlando Avenue from Ventris Avenue to Monroe Avenue to replace 10 inch to 2 inch water mains;

installation of automatic metering infrastructure; installation of 3,960 meter transmitter units (“MXU’s”) for automatic metering; and purchase of 1,500 ¾” Innovative Magnetic Technology meters.

FY 2020 includes purchase of 1,800 ¾” Innovative Magnetic Technology meters for automatic metering; contracted installation of 941 large water meters; design and construction of a 6-inch water main on Druid Isle Road and Southview Drive; design and construction of 6-inch water main on Gamewell Avenue; and design and construction of 6-inch water main on Shell Point East and West Loop.

FY 2021 includes design and construction of a 6-inch water main on Lake Hope Drive and Lake Charity Drive; design and construction of 6-inch water main on Thunderbird Trail from Thistle Lane to Mohican Trail; design and construction of a 6-inch water main on Lyndale Ave; and the continuation of the water conservation program.

FY 2022 includes design and construction of a 6-inch water main on Southview Rd; design and construction of 6-inch water main on Arapaho Trail; and design and construction of a 6-inch water main on Mohawk Trail, Shawnee Trail & Choctaw Trail.

2018

**DETAILED WATER IMPROVEMENTS
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2022**

DESCRIPTION	LENGTH	UPGRADE/SIZE	LOS Impact	TOTAL (\$)
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FISCAL YEAR 2018

Cross Connection Control Device installations		550 Devices	Per DEP requirement	338,800
TOTAL	0			\$ 338,800

FISCAL YEAR 2019

17/92 Water Main Upgrade Ventris Ave to Monroe Ave	5795	12 - inch	Increase level of service	\$ 2,000,000
Automatic Metering - Small Meters		1500 Meters	Increase LOS / Water Conservation	170,000
Automatic Metering - Infrasructure			Increase LOS / Water Conservation	380,315
Automatic Metering - MXU Transmitters		3960 Transmitters	Increase LOS / Water Conservation	661,110
TOTAL	5795			\$ 3,211,425

FISCAL YEAR 2020

Automatic Metering - Small Meters		1800 Meters	Increase LOS / Water Conservation	\$ 210,000
Automatic Metering - Large Meters		941 Meters	Increase LOS / Water Conservation	\$ 538,619
Druid Isle Rd and Southview Dr	2515	6 - inch	Increase Fire Protection	365,300
Gamewell Avenue	1800	6 - inch	Increase Fire Protection	270,109
Shellpoint East and West Loop	2000	6 - inch	Maintain Level of Service	376,000
TOTAL	6315			\$ 1,760,028

FISCAL YEAR 2021

Lake Hope Dr and Lake Charity Dr	4200	6 - inch	Increase Fire Protection	\$ 463,500
Thunderbird Tr from Thistle Ln to Mohican Tr	1100	6 - inch	Increase Fire Protection	235,719
Lyndale Ave	300	6 - inch	Increase Fire Protection	64,287
TOTAL	5600			\$ 763,506

FISCAL YEAR 2022

Southview Rd from Druid Rd to Druid Isle Rd	600	6 - inch	Increase Fire Protection	\$ 128,574
Arapaho Tr from Choctaw Tr to Algonquin Tr	1100	6 - inch	Increase Fire Protection	235,719
Mohawk Tr, Shawnee Tr, & Choctaw Tr	1000	6 - inch	Increase Fire Protection	214,290
TOTAL	2700			\$ 578,583

Grand Total				\$ 6,652,342
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Wastewater CIP Project Description: Lift Station Improvements included the overall sewer system improvements referenced in the City's Sanitary Sewer Master Plan Update 2013 ("SSMPU").

FY 2018 Includes the upgrade of Lift Station #4 (Old Horatio Ave.) Rehabilitation, construction as recommended in Chapter 5 page 43 of the SSMPU 2013, Mayo / Palm Cove / Terra Place Sewer System design as recommended in Chapter 1 page 5 of the SSMPU 2013 and Lift Station #1 (Deloraine trail) relocation as recommended in Chapter 5 page 40 of the SSMPU 2013. Also includes Maitland Boulevard force main design/construct and the purchase of additional capacity in the western system.

FY 2019 Includes Lift Station #6 (Orlando Avenue) force main construction, as recommended in Chapter 4 page 27 of the SSMPU 2013, Lift Station #8 (S. Lake Sybelia) Upgrade to submersible, design as mentioned in Chapter 5, pg. 48, of the SSMPU 2013. Also include Lift Station #17(Sandspur Ave.) and #42 (George Ave.) to be upgrade to managed additional flow from new developments.

FY 2020 Includes the Keller Road Sanitary Sewer Rehabilitation.

FY 2021 Includes the Mayo / Palm Cove / Terra Place Sewer System construction as recommended in Chapter 1 page 5 of the SSMPU 2013, The Sewer Master Plan Update 2021 to review prioritized and recommends Capital Improvements plans for the Division, the design of Tuscarora & Dommerich Hills sanitary sewer system as refer in Chapter 1, page 5 of the SSMPU 2013, and Lift Station #7 (Maitland Ave/Marion Way) relocation design as recommended in Chapter 5, page 48 of the SSMPU 2013. Also includes the construction of Lift Station #8 (S. Lake Sybelia) upgrade to submersible, as mentioned in (Chapter 5, pg. 48, of the SSMPU 2013).

FY 2022 Includes Lift Station #7 (Maitland Ave/Marion Way) relocation construct as recommended in Chapter 5, page 48 of the SSMPU 2013 and the construction of Tuscarora & Dommerich Hills sanitary sewer system as refer in Chapter 1, page 5 of the SSMPU 2013. Also, Lift Station #13 (Lake Ave.) force main replacement design/construct.

2018

**DETAILED SEWER IMPROVEMENTS
FISCAL YEAR 2018 THROUGH FISCAL YEAR 2022**

DESCRIPTION	LOS Impact	TOTAL (\$)
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FISCAL YEAR 2018

Lift Station No. 4 (Old Horatio Ave.) Rehabilitation- Construct	Capital	Provide increase capacity, eliminate septic systems, also increase surface and ground water quality.	\$500,000
Mayo / Palm Cove / Terra Place System design.	Capital	Provide increase capacity and eliminate septic systems and increase surface and ground water quality.	\$134,250
Purchase additional capacity in the western system (City of Altamonte Springs)	Capital	To provide increase capacity for future developments in the western system	\$375,000
Maitland Boulevard 8" Force Main Design/Construct	Capital	To provide increase capacity to future development	\$500,000
Lift Station No. 1 (Deloraine Trail) Relocation (Phase 2/2) Construct	Capital	Reduce eastern system load and serve northwest part of the City.	\$2,345,500
TOTAL			\$3,854,750

FISCAL YEAR 2019

Lift Station No.17 (Sandspur Ave.) Upgrade	Capital	Provide increase capacity to future developments.	\$200,000
Lift Station No.42 Pump Upgrade	Capital	Provide increase capacity to future developments.	\$100,000
Lift Station No. 6 (Orlando Avenue) Force Main - Construct.	Capital	Reduce LS #4 load by discharging into Force Main Diversion	\$3,231,000
LS No. 8 (South Lake Sybelia), Upgrade to Submersible - Design	Capital	To improve level of service	\$60,000
TOTAL			\$3,591,000

FISCAL YEAR 2020

Keller Road Sanitary Sewer Rehabilitation	Capital	To reduce inflow and infiltration in the system	\$400,000
TOTAL			\$400,000

FISCAL YEAR 2021

Mayo / Palm Cove / Terra Place System construct.	Capital	To eliminate existing septic systems and increase surface and ground water quality	\$895,000
Sewer System Master plan Update 2021	Capital	To review, recommend & prioritized Capital Improvement Plans	\$70,000
Tuscarora & Dommerich Hills Sanitary Sewer System - Design (Phase1/2)	Capital	Provide increase capacity, eliminate septic systems, also increase surface and ground water quality.	\$764,250
Lift Station No. 7 (Maitland Ave.) Relocation (Design)	Capital	To move pump station from travel lanes to provide routine preventive maintenance in a safety way.	\$100,000
Lift Station No. 8 (South Lake Sybelia Dr.) Rehabilitation-Construct	Capital	To improve Level of service	\$400,000
TOTAL			\$2,229,250

FISCAL YEAR 2022

LS No.7 (Maitland Ave./Marion Way) Relocation (Construct)	Capital	To move pump station from travel lanes to provide routine preventive maintenance in a safety way.	\$800,000
Tuscarora & Dommerich Hills Sanitary Sewer System - Construct (Phase 2/2)	Capital	Provide increase capacity and eliminate septic systems and increase surface and ground water quality.	\$5,095,000
LS No. 13 Force Main Replacement Design/Construct	Capital	To improve level of Service	\$80,000
TOTAL			\$5,975,000

\$16,050,000

WATER AND SEWER RATES Effective October 1, 2017

Water Base Fees	
Multi-Family, Per Unit	\$ 4.93
Residential or 3/4"	\$ 10.95
1" Service	\$ 27.38
1½" Service	\$ 54.75
2" Service	\$ 87.60
3" Service	\$ 175.20
4" Service	\$ 27.75
6" Service	\$ 547.50
8" Service	\$ 876.00

Single Family Residential Usage Fees	
Fees per 1,000 gallons	
Block 1 (1 to 6,000)	\$ 1.36
Block 2 (6,001 - 12,000)	\$ 2.04
Block 3 (12,001 - 18,000)	\$ 2.72
Block 4 (Over 18,000)	\$ 5.44

Multi Family Residential - Per Unit Usage Fees	
Fees per 1,000 gallons (number of units x block)	
Block 1 (1 to 3,000)	\$ 1.36
Block 2 (3,001 - 6,000)	\$ 2.04
Block 3 (6,001 - 9,000)	\$ 2.72
Block 4 (Over 9,000)	\$ 5.44

Commercial	
Fees per 1,000 gallons	
All Consumption	\$ 2.19

Irrigation Base Fees	
Residential or 3/4"	\$ 10.95
1" Service	\$ 27.38
1½" Service	\$ 54.75
2" Service	\$ 87.60
3" Service	\$ 175.20
4" Service	\$ 273.75
6" Service	\$ 547.50
8" Service	\$ 876.00

Irrigation - Single Family Res. Usage Fee	
Fees per 1,000 gallons	
Block 1 (1 to 12,000)	\$ 2.04
Block 2 (12,001 - 18,000)	\$ 2.72
Block 3 (Over 18,000)	\$ 5.44

Irrigation x Factor Table Commercial and Multi Family Usage Fee	
Fees per 1,000 gallons	
Block 1 (1 to 12,000)	\$ 2.04
Block 2 (12,001 - 18,000)	\$ 2.72
Block 3 (Over 18,000)	\$ 5.44

Sewer Base Fees	
Multi-Family, Per Unit	\$ 8.30
Residential or 3/4"	\$ 16.59
1" Service	\$ 41.48
1½" Service	\$ 82.95
2" Service	\$ 132.72
3" Service	\$ 265.44
4" Service	\$ 414.75
6" Service	\$ 829.50
8" Service	\$ 1,327.20

Sewer Fees per 1,000 Gallons of Metered Water Usage Fee	
All Volumes	\$ 6.02

Meter Size Factor Table			
	Block 1	Block 2	Block 3
Meter Size	In Thousands of Gallons		
3/4" Svc	0 - 12	13 - 18	> 18
1" Service	0 - 30	31 - 45	> 45
1½" Service	0 - 60	61 - 90	> 90
2" Service	0 - 96	97 - 144	> 144
3" Service	0 - 192	193 - 288	> 288
4" Service	0 - 300	301 - 450	> 450
6" Service	0 - 600	601 - 900	> 900
8" Service	0 - 960	961 - 1,440	> 1,440

MISCELLANEOUS WATER AND SEWER RATES
Effective October 1, 2017

Water Deposits	
SFR or 3/4"	\$ 45.00
1" Service	\$ 75.00
1½" Service	\$ 150.00
2" Service	\$ 240.00
3" Service	\$ 450.00
4" Service	\$ 750.00
6" Service	\$ 1,500.00
8" Service	\$ 2,400.00

Water Meter Installation	
SFR or 3/4"	\$ 1,035.00
1" Service	\$ 1,285.00
1½" Service	\$ 2,380.00
2" Service	\$ 2,650.00

Water Connection Fees	
SFR or 3/4"	\$ 1,035.00
1" Service	\$ 2,580.00
1½" Service	\$ 5,175.00
2" Service	\$ 8,260.00
3" Service	\$15,525.00
4" Service	\$25,875.00
6" Service	\$51,750.00
8" Service	\$82,800.00

Other Fees	
Reconnection Fee	\$ 45.00
Disconnection Fee	\$ 30.00
Field Testing Fee*	
3/4" or 1" Meter	\$ 30.00
Meter Testing Fee*	
3/4" or 1" Meter	\$ 90.00
1½" Meter	\$ 235.00
2" Meter	\$ 240.00
Larger - Time & Materials Charge	
Annual Backflow Testing	\$ 35.00

Sewer Deposits	
SFR or 3/4"	\$ 110.00
1" Service	\$ 185.00
1½" Service	\$ 370.00
2" Service	\$ 590.00
3" Service	\$ 1,100.00
4" Service	\$ 1,835.00
6" Service	\$ 3,670.00
8" Service	\$ 5,870.00

Sewer Connection Fees	
<u>Eastern Service Area</u>	
Single Family Residence	\$ 1,860.00
All Other (gallons per day)	\$ 6.64
<u>Western Service Area</u>	
Single Family Residence	\$ 4,045.00
All Other (gallons per day)	\$ 14.45