

FISCAL YEAR 2019 SOLID WASTE RATE STUDY -DRAFT-

February 12, 2019





February 12, 2019

Ms. Deb Bush Division Manager Pinellas County Department of Solid Waste 3095 114th Avenue North St. Petersburg, FL 33716-2006

Subject: Fiscal Year 2019 Solid Waste Rate Study

Dear Ms. Bush:

Public Resources Management Group, Inc. ("PRMG") has completed the 2019 Solid Waste Rate Study (the "Study") on behalf of the Pinellas County (the "County") Solid Waste Department (the "Department") and has presented the results of our analyses, assumptions, and recommendations in this report for your consideration. The purpose of the Study was to examine the revenue sufficiency of the County's existing solid waste tipping fees for Fiscal Years 2018 through 2048 (the "Study Period"). The financial forecast is based on, but not limited to: i) the review and model of the principal contractual agreements for solid waste disposal operations; ii) the review of detailed tonnage statistical and financial data for the last five (5) years; iii) the currently adopted budget for the Fiscal Years 2018 and 2019; iv) the future electric capacity payments assuming the current power purchase agreement; and iv) direction provided by Department staff and the Rate Subcommittee of the Technical Management Committee ("TMC").

Based on the assumptions and analyses reflected in this reported, which should be read in its entirety, the current disposal fees are not anticipated to be sufficient to meet the projected revenue requirements of the Department once contractual capacity payments from Duke Energy end in the Fiscal Year 2025. The loss of the capacity payments is significant since such payments presently account for more than 50% or \$57 million annually. PRMG was tasked with developing three (3) rate adjustment plans for presentation to the TMC. Based on the presented options, the TMC elected to recommend raising rates for the Fiscal Year 2020 and prior to the end of the capacity payments in order to effectuate lower annual rate adjustments in subsequent years of the Study Period.

Identified Tipping Fee Adjustments

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		Fiscal Year Ending September 30			
Description	Existing	2020	2021	2022	
Rate Adjustments [*]		6.0%	6.0%	6.0%	
Disposal Tip Fee per Ton	\$37.50	\$39.75	\$42.15	\$44.70	
Change in Tip Fee		\$2.25	\$2.40	\$2.55	

^[*] Applicable to the County's principal tip fees for municipal solid waste (MSW), commercial waste, and yard waste.

Ms. Deb Bush Pinellas County Solid Waste Department February 12, 2019 Page 2

The TMC will make formal tip fee recommendations for the Fiscal Years 2021 and 2022 during the annual review process. Following this letter is an attached summary report documenting recent trends, principal assumptions, and findings for your consideration. We appreciate the opportunity to be of service to the County and the fine cooperation and valuable assistance given to us by Department staff in the completion of the study.

Respectively submitted,

Public Resources Management Group, Inc.

Thierry A. Boveri, CGFM Associate

Nicholas T. Smith, CGFM Senior Rate Analyst

Attachments

FISCAL YEAR 2019 SOILD WASTE RATE STUDY

TABLE OF CONTENTS

Title	Page No.
Letter of Transmittal	
Table of Contents	i
List of Tables	
PRIMARY ASSUMPTIONS AND RECOMMENDATIONS	
General	1
Forecast of Revenues	1
Customer and Tonnage Forecast	2
Projected Revenues	3
Tipping Fees	3
Capacity Payments	5
Electricity Sales	5
Forecast of revenue requirements	6
Operating Expenses	6
Capital Expenditures	7
Landfill Closure and Post-Closure	8
Principal Findings	9
Gross Revenue Requirements	9
Financial Targets and Cash Balances	10
Rate Comparisons	11
Conclusions and Recommendations	12

FISCAL YEAR 2019 SOLID WASTE RATE STUDY

LIST OF APPENDICES

Appendix	Description
A	Historical Solid Waste Tonnages
В	Projected Solid Waste Tonnages
C	Capital Improvement Funding Plan
D	Development of Solid Waste Disposal Net Revenue Requirements From Rates
E	Projected Fund Balances and Interest Income
F	Solid Waste System Financial Overview and Management Dashboard

FISCAL YEAR 2019 SOLID WASTE RATE STUDY

GENERAL

Public Resources Management Group, Inc. ("PRMG") has completed our financial forecast comprising the Fiscal Years 2018 through 2048 (the "Study Period") and analysis of the solid waste system (the "Study") on behalf of the Pinellas County (the "County") Solid Waste Department (the "Department") and has presented the results of our analyses, assumptions, and recommendations in this report. The principal goals and objectives of the Study were to:

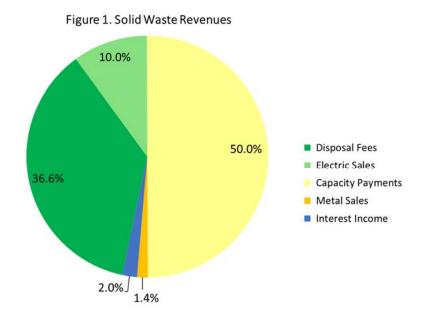
- Evaluate the sufficiency of Department revenues derived from existing rates for the solid waste system, including development of a forecast of operating expenditures, capital funding requirements, required transfers;
- Examine three (3) rate phasing alternatives to address the anticipated loss in revenues from the existing Power Purchase Agreement ("PPA"); and
- Ensure compliance with internal financial policy goals and prudent best practices to maintain the creditworthiness of the solid waste enterprise fund.

The financial forecast was developed based on information provided by Department staff including, but not limited to: i) detailed customer statistics to identify waste generation trends; ii) updated financial information related to the capital improvement program ("CIP"); iii) the Fiscal Years 2018 and 2019 operating budget as adopted by the Board of County Commissioners ("BCC"); iv) historical operating results for the Fiscal Years 2013 through 2017; and vi) other financial or statistical information.

FORECAST OF REVENUES

The revenues for the Department are partially generated from the rates for solid waste disposal service (i.e., tipping fees). Such revenues currently account for approximately 37% of gross revenues. Electric generation and sales revenues comprise the majority of the Department's gross revenues with approximately 50% derived from contractual capacity payments and 10% from electric energy sales. The remaining 3% of gross revenues are comprised of interest earnings on cash balances and metal sales. Figure 1 provides a summary of the Department's gross revenues by percentage.

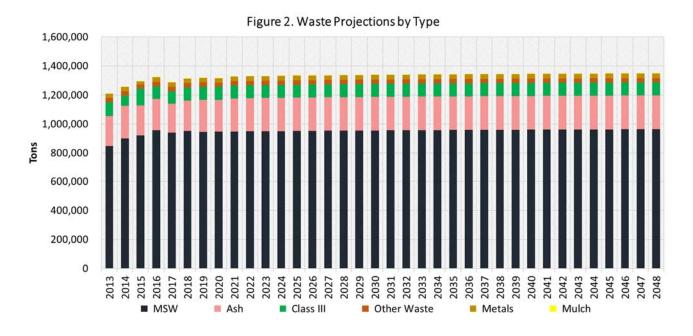
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The forecast of revenues is primarily predicated on assumptions of the estimated number of tons disposed of at County facilities, contractual capacity payments, and the value of energy sold.

Customer and Tonnage Forecast

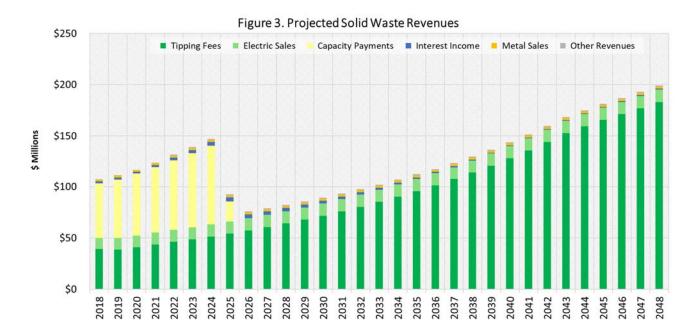
The forecast of solid waste disposal revenues relied upon a review of recent historical trends in tonnage growth. Figure 2 provides a summary of the recent historical and projected trends in waste generation:



The County has observed an average increase in the amount of waste processed of approximately 2.6% a year since the Fiscal Year 2013. By comparison the growth rate in the County's population over the same period was approximately 1% a year. The growth in waste generation is assumed to be attributable to the combination of population growth and the underlying economy; however, minimal to no growth in waste generation was assumed during the Study Period recognizing that i) the County is essentially built out and minimal population growth is expected; and ii) effects from an improving economy are assumed to be fully realized.

Projected Revenues

The revenue forecast was based on: i) a review of historical trends in revenues; ii) the Fiscal Year 2019 revenue budget; iii) year-to-date operating results for Fiscal Year 2019; iv) tonnage statistics as previously discussed; v) assumed implementation of identified rate adjustments to fund the projected revenue requirements; and v) discussions with Department staff. The revenue forecast can be categorized into six (6) primary groups of revenues comprised of tipping fees, electric capacity payments, electric sales revenues, metal sales, interest income, and all other revenues (e.g., recycling revenue, sale of equipment, reimbursements, etc.). Figure 3 provides a summary of the projected solid waste revenues throughout the Study Period.



Tipping Fees

As previously mentioned, the projected revenues shown in Figure 3 assumed the implementation of recommended and identified rate adjustments throughout the Study Period. The table on the following page reflects the recommended tipping fee adjustments by the TMC and the corresponding rates for Fiscal Years 2020 through 2022. The tip fee adjustments represent six percent (6%) annual adjustments for municipal solid waste (MSW), commercial waste, and yard waste. Additionally, an analysis of ancillary tipping fees (e.g., tires and flat fees) for the system was performed and separate revenue adjustments were identified. It is assumed that the ancillary

tipping fees will increase and are reflected throughout the Study Period based on discussions with Department staff.

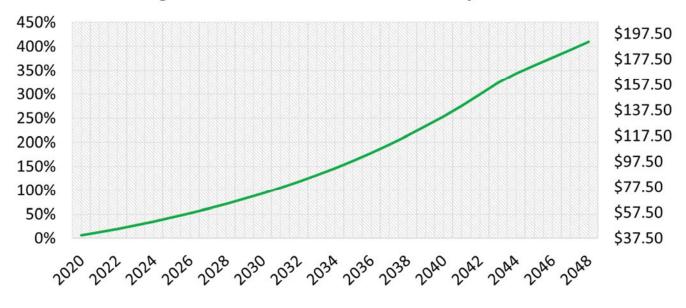
Identified Tipping Fee Adjustments

		Fiscal Year Ending September 30				
Description	Existing	2020	2021	2022		
Rate Adjustments [*]		6.0%	6.0%	6.0%		
Disposal Tip Fee per Ton	\$37.50	\$39.75	\$42.15	\$44.70		
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^[*] Applicable to the County's principal tip fees for municipal solid waste (MSW), commercial waste, and yard waste.

Figure 4 reflects the cumulative identified rate adjustments and estimated tip fee projected for the Study Period. The average annual rate increase for MSW, commercial waste, and yard waste is assumed at 6% per year through Fiscal Year 2048.

Figure 4. Cumulative Identified Rate Adjustments



With respect to ancillary tipping fees such as tires and the passenger vehicle flat fee, an additional analysis was performed. Based on the tire analysis, it was identified and assumed that the tire tipping fees would increase from the existing tipping fee of \$50.50 to \$125.00 over a three (3) year period to minimize tire disposal customer bill impacts. The phased increase to the tire fee assumes \$75.00, \$100.00, and then \$125.00 for the Fiscal Years 2020, 2021, and 2022, respectively. Additionally, based on discussions with Department staff, the Study assumes that the vehicle flat rate would have a one-time increase from \$2.00 to \$3.00 in the Fiscal Year 2020.

Capacity Payments

In 1989 the County entered into the Electric Power Purchase Agreement with Florida Power Corporation—now called Duke Energy Florida ("Duke")—for the sale of electricity and committed capacity at the County's waste-to-energy ("WTE") facility. The PPA provides two (2) means of compensation to the County including: i) the fixed monthly capacity payments, which are earned by the County assuming the WTE facility meets certain minimum electric generation availability percentages; and ii) variable payments that fluctuate based on the actual amount of electricity sold by the County to Duke. However, it is the fixed capacity payments that generate the most revenue for the County which are projected to end by December 31, 2024 under the current terms of the PPA. The following table provides a summary of the projected capacity payments from 2018 through 2024.

Capacity Payments [1]					
Calendar	Monthly Capacity	Fiscal	Annual Revenue		
Year	Rate (\$/KW) [2]	Year	(\$Millions) [3]		
2018	\$82.53	2018	\$53.4		
2019	87.79	2019	\$56.8		
2020	93.38	2020	\$60.4		
2021	99.32	2021	\$64.3		
2022	105.65	2022	\$68.4		
2023	112.38	2023	\$72.7		
2024	119.54	2024	\$77.4		
2025	0.00	2025	\$19.6		

^[1] Capacity payments are based on calendar year. Financial projections contained in this Study are presented on a fiscal year basis.

As can be seen above the County is expecting a substantial decline in revenue by the Fiscal Year 2025 due to the end of the capacity payments. The County is currently in discussions with Duke to review potential options to renew the existing PPA, but as of the date of this report and to the best of our understanding there are no expectations that the County would realize additional capacity beyond the current PPA term. The loss of this revenue results in the need to increase tipping fees to generate sufficient revenues to meet the funding requirements of the Department.

Electricity Sales

Electricity is generated by processing waste at the County's WTE facility and is sold, net of inplant usage, to Duke. Based on recent trends at the time of the study, it was assumed that the Department would receive approximately \$25.00 per megawatt hour (MWh). The amount of electricity produced and sold relies on the amount of waste processed at the WTE. The Department is currently implementing a Technical Recovery Program ("TRP") to make improvements to the WTE facility, which is intended to increase plant availability and the amount of waste able to be processed. As a result, it is assumed that the Department will have increased electric sales revenues once the TRP has been completed in Fiscal Year 2021. Electric sales revenues are anticipated to increase from \$10.7 million to \$11.9 million throughout the Study Period.

^[2] Assumes 54,750 KW of committed capacity.

^[3] The PPA has lower rates if certain electrical generation requirements are not met. The Study assumes all availability requirements are met and the Department receives the full payment amount.

FORECAST OF REVENUE REQUIREMENTS

The revenue requirements of the Department are comprised of expenditures and required transfers. The following provides a brief description of each revenue requirement category:

- <u>Expenditures</u>: includes annual operating expenses, major maintenance, and capital expenditures.
- Required Transfers: includes transfers for landfill closure and post-closure care, transfers to operating cash reserves for maintaining minimum reserve balances, and transfer to capital reserves for funding future capital expenditures.

Operating Expenses

The forecast of operating expenses was developed based upon: i) a review of the recent trends in historical expenses; ii) the adopted Fiscal Years 2018 and 2019 budgets, including review of certain year-to-date expenditures; iii) assumed growth rates and escalation factors of costs based on industry trends (i.e., projections of inflation by the Congressional Budget Office); and iv) discussions with Department staff.

The principal operating expenses include personnel, contracted services, and utilities which account for over 65% of total expenses. Budgeted departmental capital outlays were adjusted and reclassified as a capital expenditure included in the CIP. The Fiscal Years 2018 and 2019 budgets served as the basis for the operating expense forecast and represent approximately \$79.2 and \$74.1 million in operating expenses, respectively. The Fiscal Year 2019 was escalated ranging from approximately 2% to 5% depending on the assumed costs being escalated. The primary escalation factors used include, but are not limited to:

• Inflation: Average of 2.4%

Labor: 4.5%Chemicals: 5.0%

• Repair and Maintenance: 3.0%

• Utilities: 4.0%

Approximately 50% of the Department's Fiscal Year 2019 operating expenses are related to contractual operations of the WTE facility and landfill. Operating expenses for contractual operations of the WTE and Landfill are projected to increase at approximately 2.1% and 2.7% per year, respectively.

As previously mentioned, the Department is in the process of completing the TRP project to improve the WTE facility. Operating expenses from Fiscal Years 2019 through 2021 include certain TRP project costs not included in the CIP. These expenses are based on the contractor's schedule of projects for the TRP and operational costs are anticipated to decrease from approximately \$11.0 million in Fiscal Year 2019 to \$1.5 million in Fiscal Year 2021. Once the TRP project is completed operating expenses in Fiscal Year 2022 are projected to be approximately \$69.0 million.

An operating expense contingency allowance of 1.0% was assumed in each Fiscal Year of the Study Period. The contingency allowance is included in order to have sufficient funds to meet unknown or unplanned expenditures. Figure 5 provides a summary of the projected operating expenses for the Study Period, which is projected to increase at an average growth rate of approximately 2.6% per year.



Figure 5. Projection of Operating Expenses

Capital Expenditures

The forecast of capital and major maintenance expenditures was provided by Department staff and generally represents renewals and replacements and improvements to the solid waste system. The Department's CIP from the Fiscal Years 2018 to 2024 is approximately \$188.2 million and includes projects such as the previously mentioned TRP project to improve the WTE facility, a reconstructed slurry wall, and scale replacements. Based on discussions with Department staff, certain adjustments were made to the CIP, including the removal of a materials recovery facility (MRF) and transfer station. These projects were removed from consideration in the Study since the Master Plan that is currently in process is anticipated to address any potential need for any such project(s). Specific projects and timing will be determined once the Master Plan is complete. Since the Study Period exceeds the Department's current CIP planning, capital funding requirements subsequent to the Fiscal Year 2024 were based on the Department's annual depreciation expense at approximately \$20 million and escalated at approximately 2% a year. The CIP was assumed to be funded entirely from Department revenues or existing capital reserves and does not assume the issuance of debt. Figure 6 on the following page provides a summary of the projected capital expenditures and funding for the Study Period.

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\$80 \$70 \$60 \$50 \$ Millions \$40 \$30 \$20 \$10 \$0 2025 2026 2027 2030 2041 2031 Funding - Capital Reserves

Figure 6. Projection of Capital Expenditures

As previously discussed, a major driver regarding the need for additional rate adjustments is the required deposits for capital reinvestment from rate revenues. It is estimated that the Department will transfer approximately \$23.0 million per year on average to ensure that the CIP is fully funded and there are adequate reserves within the capital fund. The amount of capital reinvestment from rates and other revenues is projected to average approximately \$39.3 million annually for the Study Period and is considered a favorable level of capital reinvestment from rate revenues.

Landfill Closure and Post-Closure

The Department is responsible for paying the cost of closure and post-closure care expenses once the landfill reaches capacity. State regulations require the County to demonstrate financial assurance as to the ability to fund the future cost of closure and post-closure care recognizing that once a landfill is closed it can no longer generate revenue to fund the associated costs. There are several means by which the County can demonstrate financial assurance, such as: i) setting aside or restricting funds within a closure and post-closure care account equal to the reported liability (based on capacity utilization); or ii) by meeting a financial test that demonstrates the ability of the County to fund the expenditure in future years. The County currently demonstrates financial assurance by the financial test. Based on discussions with Department staff, it was assumed that the Department would begin making transfers to a restricted landfill closure reserve to fully fund the closure portion of the liability by the end of the Study Period. An annual funding requirement or deposit to the closure and post-closure reserve is assumed beginning with the Fiscal Year 2020 and estimated at approximately \$3.9 million per year.

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Figure 7 provides a summary of projected closure and post-closure care liability and increasing closure reserves balances resulting from the assumed deposits for the Study Period.

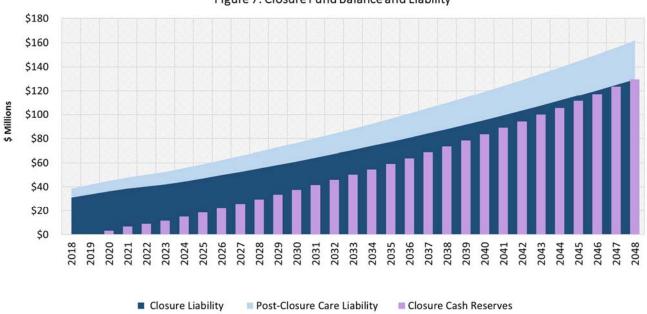
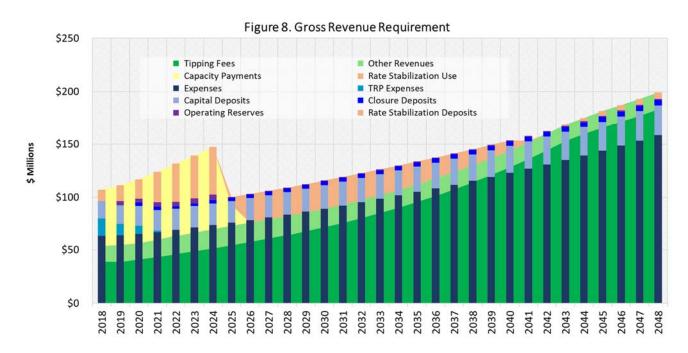


Figure 7. Closure Fund Balance and Liability

PRINCIPAL FINDINGS

Gross Revenue Requirements

Based on the assumptions of the revenue and expenditure forecast, the gross revenue requirements funded from rates were identified and are summarized in Figure 8.



The gross revenue requirements are anticipated to increase from approximately \$107 million to \$199 million during the Study Period, which will require additional rate adjustments beginning in the Fiscal Year 2020. The identified rate adjustments are primarily due to: i) continued inflationary increases to the cost of operation and maintenance; ii) reductions to capacity payments starting in Fiscal Year 2025; iii) projected increases in annual fund transfers to the capital fund and unrestricted cash reserves for the purpose of internally funding future capital improvements of the Department; and iv) assumed transfers to fund the County's landfill closure liability.

In order to minimize the fiscal impacts to customers of the Department, the forecast assumes steady annual rate adjustments to the tip fees over the Study Period, however recognizing the recommended rate adjustments will not produce sufficient revenues to fully fund the identified funding requirements until the Fiscal Year 2041. The funding shortfall from 2025 through 2040 is assumed to be financed through the use of cash reserves primarily generated from capacity payments.

Financial Targets and Cash Balances

Recognizing application of the projected identified rate adjustments, it is anticipated that Department will meet all internal and recommended financial targets including:

- Maintaining a minimum operating cash reserves equal to or greater than 90 days of annual operating expenses;
- Maintaining one year's worth of electric revenue to mitigate the effects of reduced capacity payments or decreased electric sales revenues;
- Maintaining minimum required reserves related to contractual agreements;
- Maintenance of minimum unappropriated capital cash reserves equal to or greater than \$25.0 million; and
- Funding the County's closure liability by the end of the Study Period.

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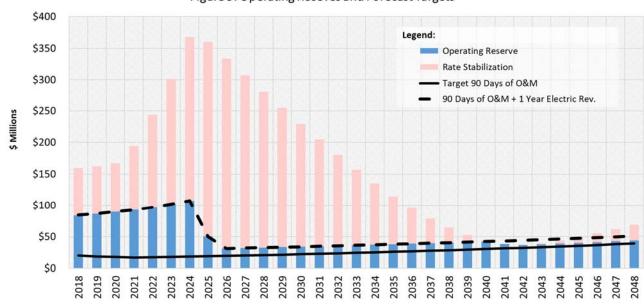
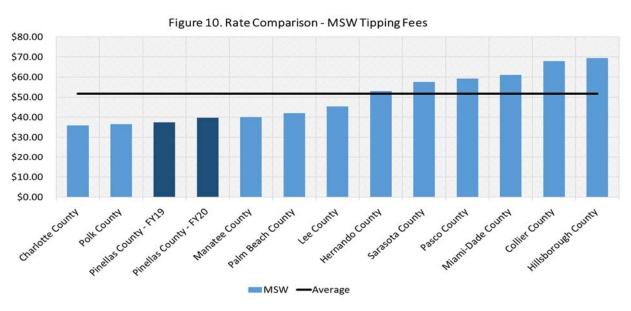


Figure 9. Operating Reseves and Forecast Targets

As can be seen on Figure 9, it is anticipated that excess cash reserves generated from capacity payments in earlier portions of the Study Period are assumed to decline to the minimum cash reserve targets by the end of the Study Period. The decline in cash reserves is primarily due to: i) funding for the planned capital funding requirements of the Department; and ii) the proposed phase-in of the recommended rate adjustments as discussed earlier.

Rate Comparisons

For the purposes of this analysis, a comparison of solid waste tipping fees with other neighboring entities was prepared to provide an indication of the competitiveness of the existing and proposed rates charged by the Department. Based on this analysis the existing rates for service are considered comparable and below average with the other surveyed entities. Figure 10 provides the comparison of MSW tipping fees.



CONCLUSIONS AND RECOMMENDATIONS

Based on the assumptions, considerations, and analyses as summarized herein, we are of the opinion that:

1. The County's existing rates for solid waste service are not anticipated to recover the projected revenue requirements for the Study Period. As a result, rate adjustments are recommended for Fiscal Years 2020 through 2022. Below is a summary of the identified adjustments:

Identified Tipping Fee Adjustments

		Fiscal Year Ending September 30,				
Description	Existing	2020	2021	2022		
Rate Adjustments [*]		6.0%	6.0%	6.0%		
Disposal Tip Fee per Ton	\$37.50	\$39.75	\$42.15	\$44.70		
Change in Tip Fee		\$2.25	\$2.40	\$2.55		

^[*] Applicable to the County's principal tip fees for municipal solid waste (MSW), commercial waste, and yard waste.

- 2. It is recommended that the Department re-evaluate the sufficiency of solid waste rates annually in order to adjust for changes in the conditions and assumptions contained herein and to monitor the effects of market trends in the cost to provide services.
- 3. Based on recognition of the additional identified rate adjustments the Department is expected to fully fund its capital program and meet financial targets for the Study Period.

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FISCAL YEAR 2019 SOLID WASTE RATE STUDY

LIST OF APPENDICES

Appendix	Description
A	Historical Solid Waste Tonnages
В	Projected Solid Waste Tonnages
C	Capital Improvement Funding Plan
D	Development of Solid Waste Disposal Net Revenue Requirements From Rates
Е	Projected Fund Balances and Interest Income
F	Solid Waste System Financial Overview and Management Dashboard

Appendix A

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line		Fiscal Year Ended September 30,				
No.	Description	2013	2014	2015	2016	2017
	Population					
1	EDR Medium Population Projections	926,610	933,258	944,971	954,569	962,003
2	Population Growth Percentage	,	0.72%	1.26%	1.02%	0.78%
3	Estimated Persons per Household					
4	Estimated Generation per Capita	1.08	1.10	1.15	1.16	1.13
	Municipal Solid Waste (MSW)					
	Commercial					
5	Growth	N/A	11,795	43,606	33,615	(3,602)
6	Adjustments - Estimated Waste Generation Change	-	-	-	-	_
7	Tonnage	353,564	365,359	408,965	442,580	438,978
8	Percent Change	N/A	3.34%	11.94%	8.22%	(0.81%)
	Residential					
9	Growth	N/A	4,411	1,919	4,215	(5,545)
10	Assessment Reduction	-	-	-	-	-
11	Adjustments - Estimated Waste Generation Change	-	-	-	-	-
12	Tonnage	442,768	447,179	449,098	453,312	447,768
13	Percent Change	N/A	1.00%	0.43%	0.94%	(1.22%)
	Mini Hand Unload					
14	Growth	N/A	2,505	5,529	8,570	(4,180)
15	Adjustments - Estimated Waste Generation Change	-	-	-	-	-
16	Tonnage	41,651	44,156	49,685	58,256	54,076
17	Percent Change	N/A	6.01%	12.52%	17.25%	(7.18%)
18	Billed Mini Hand Unload Tons (Info Only)	37,865	39,965	45,472	50,271	49,736

Appendix A

Line	ine Fiscal Year Ended September 30,					
No.	Description	2013	2014	2015	2016	2017
	Recovered (Excavated Landfill)					
19	Growth	N/A	33,041	(30,313)	(9,371)	(3,355)
20	Tonnage	9,998	43,038	12,726	3,355	(3,333)
21	Percent Change	N/A	330.49%	(70.43%)	(73.64%)	(100.00%)
22	Total Municipal Solid Waste (MSW)	847,981	899,733	920,474	957,503	940,821
23	Annual Percent Change		6.10%	2.31%	4.02%	(1.74%)
	Other Waste					
	Recycling					
24	Growth	N/A	(306)	504	712	(715)
25	Tonnage	3,065	2,759	3,263	3,974	3,260
26	Percentage Change	N/A	(9.97%)	18.26%	21.81%	(17.98%)
	Paint Cans					
27	Growth	N/A	9	(22)	70	21
28	Tonnage	358	367	346	415	436
29	Percentage Change	N/A	2.62%	(5.95%)	20.20%	5.01%
	Tires					
30	Growth	N/A	(58)	90	958	(276)
31	Adjustments - Estimated Waste Generation Change	-	-	-	-	_
32	Tonnage	8,888	8,830	8,920	9,878	9,602
33	Percentage Change	N/A	(0.65%)	1.02%	10.74%	(2.79%)
34	Billed Mini Hand Unload Tons (Info Only)	3,065	2,595	2,691	4,443	5,586

Appendix A

Line		Fiscal Year Ended September 30,				
No.	Description	2013	2014	2015	2016	2017
	Rejects					
35	Growth	N/A	87	(227)	507	265
36	Tonnage	705	792	565	1,072	1,337
37	Percentage Change	N/A	12.28%	(28.65%)	89.77%	24.74%
	Industrial					
38	Growth	N/A	(1,267)	(2,830)	(229)	(228)
39	Tonnage	19,542	18,275	15,446	15,217	14,988
40	Percentage Change	N/A	(6.48%)	(15.48%)	(1.48%)	(1.50%)
41	Total Other Waste	32,558	31,023	28,539	30,557	29,624
42	Annual Percent Change		(4.71%)	(8.01%)	7.07%	(3.05%)
	Class III					
	Commercial					
43	Growth	N/A	(26,496)	39,356	(28,269)	(4,961)
44	Adjustments - Estimated Waste Generation Change	-	-	-	-	-
45	Tonnage	64,672	38,176	77,532	49,263	44,302
46	Annual Percent Change	N/A	(40.97%)	103.09%	(36.46%)	(10.07%)
	Residential					
47	Growth	N/A	470	(961)	231	715
48	Adjustments - Estimated Waste Generation Change	-	-	-	-	-
49	Tonnage	781	1,251	289	520	1,235
50	Annual Percent Change	N/A	60.13%	(76.87%)	79.87%	137.38%
	Mini Hand Unload					
51	Billed Mini Hand Unload Tons (Info Only)	689	92	23	0	6

Appendix A

Line		Fiscal Year Ended September 30,				
No.	Description	2013	2014	2015	2016	2017
	Yard Waste					
52	Growth	N/A	2,308	5,852	(508)	3,045
53	Adjustments - Estimated Waste Generation Change	-	2,300	-	(300)	-
54	Tonnage	27,586	29,894	35,746	35,239	38,284
55	Annual Percent Change	N/A	8.37%	19.58%	(1.42%)	8.64%
56	Total Class III Waste	93,039	69,321	113,568	85,022	83,822
57	Annual Percent Change	93,039	(25.49%)	63.83%	(25.14%)	(1.41%)
31	Annual Percent Change		(23.4970)	03.8370	(23.1470)	(1.41/0)
	WTE Metals					
	Ferrous					
58	Growth	N/A	601	(4,794)	8,840	(2,064)
59	Tonnage	26,201	26,801	22,007	30,847	28,784
60	Annual Percent Change	N/A	2.29%	(17.89%)	40.17%	(6.69%)
	Non-Ferrous					
61	Growth	N/A	47	(105)	865	(37)
62	Tonnage	686	733	628	1,493	1,456
63	Annual Percent Change	N/A	6.81%	(14.34%)	137.74%	(2.49%)
64	Total Metals	26,887	27,535	22,635	32,340	30,240
65	Annual Percent Change	_ 0,00.	2.41%	(17.79%)	42.88%	(6.50%)
	WTE Residue					
	Ash					
66	Growth	N/A	(95)	(40)	1,325	3,339
67	Tonnage	136	40	-	1,325	4,663
68	Annual Percent Change	N/A	(70.24%)	(100.00%)	0.00%	252.08%

Appendix A

Line			Fiscal Year Ended September 30,				
No.	Description	2013	2014	2015	2016	2017	
	By-Pass Ash						
69	Growth	N/A	(648)	2,780	(324)	757	
70	Tonnage	1,703	1,055	3,835	3,511	4,269	
71	Annual Percent Change	N/A	(38.06%)	263.52%	(8.45%)	21.57%	
	Aggregate						
72	Growth	N/A	20,054	(21,578)	5,825	(18,809)	
73	Tonnage	205,837	225,891	204,313	210,139	191,329	
74	Annual Percent Change	N/A	9.74%	(9.55%)	2.85%	(8.95%)	
75	Total Ash Residue	207,676	226,987	208,149	214,974	200,261	
76	Annual Percent Change		9.30%	(8.30%)	3.28%	(6.84%)	
	Mulch						
	Reject						
77	Growth	N/A	31	(134)	(136)	(110)	
78	Tonnage	854	885	750	614	504	
79	Annual Percent Change	N/A	3.59%	(15.18%)	(18.16%)	(17.86%)	
	By-Pass Ash						
80	Growth	N/A	-	-	-	20	
81	Tonnage	-	-	-	-	20	
82	Annual Percent Change	N/A	0.00%	0.00%	0.00%	0.00%	
83	Total Mulch	854	885	750	614	524	
84	Annual Percent Change		3.59%	(15.18%)	(18.16%)	(14.64%)	

Appendix A

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line			Fiscal Yea	ar Ended September	30,	
No.	Description	2013	2014	2015	2016	2017
	Total Processed Tons:					2.6%
85	MSW	847,981	899,733	920,474	957,503	940,821
86	Other Waste	32,558	31,023	28,539	30,557	29,624
87	Class III	93,039	69,321	113,568	85,022	83,822
88	Metals	26,887	27,535	22,635	32,340	30,240
89	Ash	207,676	226,987	208,149	214,974	200,261
90	Mulch	854	885	750	614	524
91	Total Processed Tons	1,208,994	1,255,483	1,294,115	1,321,011	1,285,292
92	Less Residuals	(234,563)	(254,521)	(230,784)	(247,315)	(230,501)
93	Less Excavated Waste	(9,998)	(43,038)	(12,726)	(3,355)	-
94	Net Inbound Tons	1,453,555	1,553,043	1,537,624	1,571,680	1,515,793
	Diverted Tons					
95	MSW / Class I	69,213	75,929	146,522	176,564	183,154
96	Other Waste	123	290	642	201	278
97	Total Diverted Tons	69,336	76,219	147,165	176,765	183,432

Appendix A

Line			Fiscal Ye	ar Ended Septembe	r 30,	
No.	Description	2013	2014	2015	2016	2017
	WTE Plant Tons					
98	MSW / Class I	776,815	821,860	772,974	779,970	756,644
99	Other Waste	23,606	22,455	19,292	19,857	20,000
100	Class III	793	-	-	85	144
101	Total WTE Plant Tons	801,214	844,315	792,266	799,911	776,788
102	Less: Pit Rejects	74	78	114	201	235
103	Less: Recyclables	549	659	376	739	843
104	Plus: Diverted Tons	69,336	76,219	147,165	176,765	183,432
105	Total Available for WTE Plant	869,928	919,797	938,940	975,735	959,142
	Landfill Tons					
106	MSW / Class I	1,942	1,944	977	969	1,023
107	Other Waste - SLF	5,780	5,559	5,341	6,514	6,075
108	Class III - SLF	51,319	39,164	77,466	49,699	45,261
109	Class III - WLF	13,341	263	355	-	133
110	Ash /Residues - SLF	182,578	148,902	189,302	214,248	197,586
111	Ash /Residues - WLF	25,098	78,084	18,846	727	-
112	Plus: Diverted Tons	69,336	76,219	147,165	176,765	183,432
113	Total Landfilled Tons	349,394	350,135	439,454	448,932	433,511

Appendix A

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line			Fiscal Ye	ar Ended September	r 30,	
No.	Description	2013	2014	2015	2016	2017
	Other Disposal					
114	Yard Waste Processing	27,597	29,894	35,746	35,239	38,295
115	Out the Door Recycling	29,935	30,255	25,898	18,358	3,915
116	Processor	-	-	-	17,957	31,459
117	Mulch	854	885	750	614	524
118	Total Other Disposal	58,387	61,033	62,395	72,168	74,993
119	Total Waste Disposed	1,208,994	1,255,483	1,294,115	1,321,011	1,285,292

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line					F	iscal Year Ending	September 30.				
No.	Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	Population										
1	EDR Medium Population Projections	969,607	975,041	980,121	985,196	990,285	995,322	1,000,244	1,004,985	1,009,491	1,013,749
2	Population Growth Percentage	0.79%	0.56%	0.52%	0.52%	0.52%	0.51%	0.49%	0.47%	0.45%	0.42%
3	Estimated Persons per Household	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27
4	Estimated Fersons per Flousenoid Estimated Generation per Capita	1.14	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.09	1.09
4	Estimated Generation per Capita	1.14	1.12	1.12	1.11	1.11	1.11	1.10	1.10	1.09	1.09
	Municipal Solid Waste (MSW) Commercial										
5	Growth	10,000	(8,000)	-	-		-		-	-	-
6	Adjustments - Estimated Waste Generation Change	· -	-	-	-		-		-	-	-
7	Tonnage	448,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978
8	Percent Change	2.28%	-1.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Residential										
9	Growth	1,559	1,109	1,034	1,030	1,030	1,016	990	951	902	850
10	Assessment Reduction	-	1,107	-	1,030	-	-	-	-	-	-
11	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-		-	-	-
12		449,327	450,436	451,470	452,500	453,530	454,546	455,536	456,487	457,389	458,239
13	Tonnage	0.35%	0.25%	0.23%	0.23%	0.23%	0.22%	0.22%	0.21%	0.20%	0.19%
13	Percent Change	0.33%	0.25%	0.23%	0.23%	0.23%	0.22%	0.22%	0.21%	0.20%	0.19%
	Mini Hand Unload										
14	Growth	-	-	-	-	-	-	-	-	-	-
15	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-
16	Tonnage	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076
17	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Recovered (Excavated Landfill)										
19	Growth	-	-	-	-	-	-	-	-	-	-
20	Tonnage	-	-	-	-	-	-	-	-	-	-
21	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22	Total Municipal Solid Waste (MSW)	952,380	945,490	946,523	947,553	948,583	949,599	950,589	951,540	952,442	953,292
23	Annual Percent Change	1.23%	(0.72%)	0.11%	0.11%	0.11%	0.11%	0.10%	0.10%	0.09%	0.09%
	Other Waste										
	Recycling										
24	Growth	_	_	_	_	_	_	_	_	_	_
25	Tonnage	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260
26	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Paint Cans										
27	Growth			_							
27 28		436	436	436	436	436	436	436	436	436	436
28 29	Tonnage	0.00%	0.00%	0.00%		0.00%	0.00%	0.00%		0.00%	0.00%
29	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Tires										
30	Growth	2,000	(2,000)	-	-	-	-	-	-	-	-
31	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-
32	Tonnage	11,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602
33	Percentage Change	20.83%	-17.24%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
34	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line						Fiscal Year Ending	September 30.				
No.	Description	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Population										
1	EDR Medium Population Projections	1,017,755	1,021,505	1,024,996	1,028,231	1,031,243	1,034,072	1,036,758	1,039,340	1,041,852	1,044,302
2	Population Growth Percentage	0.40%	0.37%	0.34%	0.32%	0.29%	0.27%	0.26%	0.25%	0.24%	0.24%
3	Estimated Persons per Household	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27
4	Estimated Fersons per Flousenoid Estimated Generation per Capita	1.09	1.08	1.08	1.08	1.07	1.07	1.07	1.07	1.06	1.06
7	Estimated Generation per Capital	1.07	1.00	1.00	1.00	1.07	1.07	1.07	1.07	1.00	1.00
	Municipal Solid Waste (MSW) Commercial										
5	Growth	-	-	-	-	-	-	-	-	-	-
6	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-
7	Tonnage	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978
8	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Residential										
9	Growth	798	745	692	640	595	558	529	508	493	480
10	Assessment Reduction			-		-		-	-	-	-
11	Adjustments - Estimated Waste Generation Change	-	-	-				-	-	-	
12	Tonnage	459,036	459,781	460,474	461,114	461,709	462,267	462,796	463,304	463,797	464,277
13	Percent Change	0.17%	0.16%	0.15%	0.14%	0.13%	0.12%	0.11%	0.11%	0.11%	0.10%
	Mini Hand Unload										
14	Growth		_	_	_	_	_	_	_	_	_
15	Adjustments - Estimated Waste Generation Change		_	_		_	_	_	_	_	_
16	Tonnage	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076
17	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Recovered (Excavated Landfill)										
19	Growth	-	-	-	-	-	-	-		-	-
20	Tonnage	-	-	-				-	-	-	
21	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22	Total Municipal Solid Waste (MSW)	954,090	954,835	955,527	956,167	956,762	957,320	957,849	958,357	958,850	959,331
23	Annual Percent Change	0.08%	0.08%	0.07%	0.07%	0.06%	0.06%	0.06%	0.05%	0.05%	0.05%
	Other Waste										
	Recycling										
24	Growth			_	_	_	_	_			
25	Tonnage	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260
26	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Paint Cans										
27											
27	Growth	126	426	- 126	426	426	426	426	426	426	426
28	Tonnage	436	436	436	436	436	436	436	436	436	436
29	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Tires										
30	Growth	-	-	-	-	-	-	-	-	-	-
31	Adjustments - Estimated Waste Generation Change					-	.	-		-	-
32	Tonnage	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602
33	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
34	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line						Fiscal Yea	r Ending September	: 30,				
No.	Description	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
	Population											
1	EDR Medium Population Projections	1,046,688	1,049,013	1,051,276	1,053,477	1,055,612	1,057,676	1,059,663	1,061,569	1,063,372	1,065,072	1,066,668
2	Population Growth Percentage	0.23%	0.22%	0.22%	0.21%	0.20%	0.20%	0.19%	0.18%	0.17%	0.16%	0.15%
3	Estimated Persons per Household	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27	2.27
4	Estimated Generation per Capita	1.06	1.06	1.06	1.06	1.05	1.05	1.05	1.05	1.05	1.05	1.04
	Municipal Solid Waste (MSW) Commercial											
5	Growth	-	-	-	-	-	-	-	-	-	-	-
6	Adjustments - Estimated Waste Generation Change	· · · · · · - ·	· · · · · · - ·									
7	Tonnage	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978	440,978
8	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Residential											
9	Growth	467	455	442	429	416	402	386	370	350	330	309
10	Assessment Reduction	-	-	-	-	-	-	-	-	-	-	-
11	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-	-
12	Tonnage	464,745	465,199	465,642	466,071	466,487	466,889	467,275	467,646	467,996	468,325	468,634
13	Percent Change	0.10%	0.10%	0.10%	0.09%	0.09%	0.09%	0.08%	0.08%	0.07%	0.07%	0.07%
	Mini Hand Unload											
14	Growth	-	-	-	-	-	-	-	-	-	-	-
15	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-	-
16	Tonnage	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076	54,076
17	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
18	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Recovered (Excavated Landfill)											
19	Growth	-	-	-	-	-	-	-	-	-	-	-
20	Tonnage		.								.	
21	Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
22	Total Municipal Solid Waste (MSW)	959,798	960,253	960,695	961,124	961,540	961,942	962,329	962,699	963,049	963,378	963,688
23	Annual Percent Change	0.05%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.04%	0.04%	0.03%	0.03%
	Other Waste											
	Recycling											
24	Growth	-	-	-	-	-	-	-	-	-	-	-
25	Tonnage	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260
26	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Paint Cans											
27	Growth	-	-	-	-	-	-	-	-	-	-	-
28	Tonnage	436	436	436	436	436	436	436	436	436	436	436
29	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Tires											
30	Growth	-	-	-	-	-	-	-	-	-	-	-
31	Adjustments - Estimated Waste Generation Change			-	-	-	-	-	-	-		
32	Tonnage	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602	9,602
33	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
34	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line					F	iscal Year Ending	September 30,				
No.	Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	Rejects										
35	Growth	_		_		_	_	_	_		
36	Tonnage	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337
37	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
37	referrage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Industrial										
38	Growth	-	-	-	-	-	-	-	-	-	-
39	Tonnage	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988
40	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
41	Total Other Waste	31,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624
42	Annual Percent Change	3.49%	(6.32%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Class III										
	Commercial										
43	Growth	4,000	_						_		
		4,000	-	-	-	-	-	-	-	-	-
44	Adjustments - Estimated Waste Generation Change	40.202	40.202	-	-	-	40.202	-	40.202	40.202	40.202
45	Tonnage	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302
46	Annual Percent Change	9.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Residential										
47	Growth	-	-	-	-	-	-	-	-	-	-
48	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-
49	Tonnage	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
50	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Mini Hand Unload										
51	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Yard Waste										
52	Growth	_	_	_	_	_	_	_	_	_	
53	Adjustments - Estimated Waste Generation Change	_	_	=	-	_	-	=	-	-	=
54	Tonnage		38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284
	ě	38,284									
55	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
56	Total Class III Waste	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822
57	Annual Percent Change	4.77%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	WTE Metals										
	Ferrous										
58	Growth	(876)	1,649	(271)	1,285	36	36	35	33	32	30
59	Tonnage	27,908	29,557	29,286	30,571	30,607	30,643	30,677	30,710	30,742	30,772
60	Annual Percent Change	-3.04%	5.91%	-0.92%	4.39%	0.12%	0.12%	0.11%	0.11%	0.10%	0.10%
	Non-Ferrous										
61	Growth	139	94	(15)	73	2	2	2	2	2	2
62	Tonnage	1,595	1,689	1,673	1,747	1,749	1,751	1,753	1,755	1,757	1,758
63	Annual Percent Change	9.53%	5.91%	-0.92%	4.39%	0.12%	0.12%	0.11%	0.11%	0.10%	0.10%
64	Total Metals	29,503	31,246	30,959	32,318	32,356	32,394	32,430	32,465	32,499	32,530
65	Annual Percent Change	(2.44%)	5.91%	(0.92%)	4.39%	0.12%	0.12%	0.11%	0.11%	0.10%	0.10%
	WITE Davidson										
	WTE Residue Ash										
66	Growth	_	-	-	_	_	_	-	-	-	-
67	Tonnage	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663
68	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
00	au i orochi Chango	0.0070	0.0070	0.0070	3.0070	3.0070	3.0070	0.0070	0.0070	0.0070	0.0070

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line					F	iscal Year Ending	September 30,				
No.	Description	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Rejects										
35	Growth	_		_		_	_	_	_		
36	Tonnage	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337
37	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
37	referrage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Industrial										
38	Growth	-	-	-	-	-	-	-	-	-	-
39	Tonnage	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988
40	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
41	Total Other Waste	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624
42	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Class III										
	Commercial										
43	Growth	_							_		
			-	-	-	-	-	-	-	-	-
44	Adjustments - Estimated Waste Generation Change	-	40.202	-	40.202	-	40.202	-	40.202	40.202	40.202
45	Tonnage	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302
46	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Residential										
47	Growth	-	-	-	-	-	-	-	-	-	-
48	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-
49	Tonnage	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
50	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Mini Hand Unload										
51	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Yard Waste										
52	Growth	_	_	_	_	_	_	_	_	_	
53	Adjustments - Estimated Waste Generation Change	_	_	_	-	_	-	=	-	-	=
54	Tonnage		38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284
	e	38,284									
55	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
56	Total Class III Waste	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822
57	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	WTE Metals										
	Ferrous										
58	Growth	28	26	24	22	21	20	19	18	17	17
59	Tonnage	30,800	30,826	30,850	30,872	30,893	30,913	30,931	30,949	30,966	30,983
60	Annual Percent Change	0.09%	0.08%	0.08%	0.07%	0.07%	0.06%	0.06%	0.06%	0.06%	0.05%
	Non-Ferrous										
61	Growth	2	1	1	1	1	1	1	1	1	1
62	Tonnage	1,760	1,761	1,763	1,764	1,765	1,766	1,768	1,769	1,770	1,770
63	Annual Percent Change	0.09%	0.08%	0.08%	0.07%	0.07%	0.06%	0.06%	0.06%	0.06%	0.05%
64	Total Metals	32,560	32,587	32,613	32,637	32,659	32,679	32,699	32,718	32,736	32,754
65	Annual Percent Change	0.09%	0.08%	0.08%	0.07%	0.07%	0.06%	0.06%	0.06%	0.06%	0.05%
	WTE Residue										
	Ash										
66	Growth	_	-	-	_		_	-	_	_	_
67	Tonnage	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663
68	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
00	Annual I citetit Change	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0070	0.0076	0.0076	0.00%

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

35 36 37 38 39 40	Description	2038					r Ending Septembe					
36 37 38 39		2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
36 37 38 39	Rejects											
36 37 38 39	Growth	_	_	_	_	_	_	_	_	_	_	_
37 38 39	Tonnage	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337	1,337
39	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
39	Industrial											
39	Growth	_	_	_	_	_	_	_	_	_	_	_
	Tonnage	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988	14,988
	Percentage Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
41	Total Other Waste	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624
42	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
(Class III											
	Commercial											
43	Growth	-	-	-	-	-	-	-	-	_	-	-
44	Adjustments - Estimated Waste Generation Change	-		-			-	-	-		-	
45	Tonnage	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302	48,302
46	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Residential											
47	Growth	-	-	-	-	-	-	-	-	-	-	-
48	Adjustments - Estimated Waste Generation Change	-	-	-	-	-	-	-	-	-	-	-
49	Tonnage	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235	1,235
50	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Mini Hand Unload											
51	Billed Mini Hand Unload Tons (Info Only)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Yard Waste											
52	Growth	_	_	_	_	_	_	_	_	_	_	_
53	Adjustments - Estimated Waste Generation Change		_	_		_	_	_	_	_	_	_
54	Tonnage	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284
55	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
56	Total Class III Waste	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822
	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	WTE Metals											
	Ferrous											
58	Growth	16	16	15	15	15	14	14	13	12	12	11
59	Tonnage	30,999	31,015	31,031	31,046	31,060	31,075	31,088	31,101	31,113	31,125	31,136
60	Annual Percent Change	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.03%
	Non-Ferrous											
61	Growth	1	1	1	1	1	1	1	1	1	1	1
62	Tonnage	1,771	1,772	1,773	1,774	1,775	1,776	1,776	1,777	1,778	1,779	1,779
63	Annual Percent Change	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.03%
64	Total Metals	32,771	32,788	32,804	32,820	32,835	32,850	32,865	32,878	32,891	32,903	32,915
65	Annual Percent Change	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.03%
,	WTE Residue											
	Ash											
66	Growth	-	-	-	-	-	-	-	-	-	-	-
67	Tonnage	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663	4,663
68	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line					I	iscal Year Ending	September 30,				
No.	Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	By-Pass Ash										
69	Growth	(4,269)	_	_	_	_	_			_	_
70	Tonnage	(4,207)	_	_	=	=	=	-	-	=	-
71	Annual Percent Change	-100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
/1	Allitual Fercent Change	-100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.0076	0.00%
	Aggregate										
72	Growth	-	-	-	-	-	-	-	-	-	-
73	Tonnage	205,322	217,453	215,461	224,915	225,180	225,442	225,696	225,941	226,174	226,392
74	Annual Percent Change	7.31%	5.91%	-0.92%	4.39%	0.12%	0.12%	0.11%	0.11%	0.10%	0.10%
75	Total Ash Residue	209,986	222,116	220,124	229,578	229,843	230,105	230,360	230,605	230,837	231,056
76	Annual Percent Change	4.86%	5.78%	(0.90%)	4.29%	0.12%	0.11%	0.11%	0.11%	0.10%	0.09%
70	Aimuai i ciccii Change	4.0070	3.7670	(0.5070)	4.2770	0.1270	0.1170	0.1170	0.1170	0.1070	0.0570
	Mulch										
	Reject										
77	Growth	-	-	-	-	-	-	-	-	-	-
78	Tonnage	504	504	504	504	504	504	504	504	504	504
79	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	By-Pass Ash										
80	Growth	(20)			_	_	_	_	_		
81	Tonnage	(20)									
82	Annual Percent Change	-100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
82	Annual Percent Change	-100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
83	Total Mulch	504	504	504	504	504	504	504	504	504	504
84	Annual Percent Change	(3.77%)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Total Dungaged Tongs										
0.5	Total Processed Tons:	052 200	0.45, 400	0.46 522	0.47, 552	040.502	040.500	050 500	051.540	052 442	052 202
85	MSW	952,380	945,490	946,523	947,553	948,583	949,599	950,589	951,540	952,442	953,292
86	Other Waste	31,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624
87	Class III	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822
88	Metals	29,503	31,246	30,959	32,318	32,356	32,394	32,430	32,465	32,499	32,530
89	Ash	209,986	222,116	220,124	229,578	229,843	230,105	230,360	230,605	230,837	231,056
90	Mulch	504	504	504	504	504	504	504	504	504	504
91	Total Processed Tons	1,311,818	1,316,801	1,315,557	1,327,399	1,328,732	1,330,047	1,331,329	1,332,561	1,333,728	1,334,828
92	Less Residuals	(239,488)	(253,362)	(251,083)	(261,896)	(262,199)	(262,498)	(262,790)	(263,070)	(263,336)	(263,586)
93	Less Excavated Waste	(237,100)	(200,002)	(201,000)	(201,070)	(202,177)	(202, 170)	(202,770)	(203,070)	(203,330)	(205,500)
94	Net Inbound Tons	1,551,307	1,570,163	1,566,640	1,589,295	1,590,931	1,592,546	1,594,119	1,595,631	1,597,064	1,598,414
	Diverted Tons										
95	MSW / Class I	176,000	120,000	128,771	93,086	93,086	93,086	93,086	93,086	93,086	93,086
96	Other Waste	278	278	278	278	278	278	278	278	278	278
97	Total Diverted Tons	176,278	120,278	129,049	93,364	93,364	93,364	93,364	93,364	93,364	93,364
	WTE Plant Tons										
98	MSW / Class I	775,357	824,466	816,729	853,444	854,474	855,490	856,480	857,431	858,333	859,183
99	Other Waste	22,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011
100	Class III	-	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011
101	T-4-1 W/TE DI4 T	707.370	044 477	027.740	072 455	074 405	975 501	077 401	077.440	070 244	070 104
101	Total WTE Plant Tons	797,368	844,477	836,740	873,455	874,485	875,501	876,491	877,442	878,344	879,194
102	Less: Pit Rejects	-	-	-	-	-	-	-	-	-	-
103	Less: Recyclables	-	-	-	-	-	-	-	-	-	
104	Plus: Diverted Tons	176,278	120,278	129,049	93,364	93,364	93,364	93,364	93,364	93,364	93,364
105	Total Available for WTE Plant	973,646	964,755	965,789	966,819	967,848	968,865	969,855	970,806	971,708	972,558

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line						Fiscal Year Ending S	September 30,				
No.	Description	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	By-Pass Ash										
69	Growth										
		-	-	-	-	-	-	-	-	-	-
70	Tonnage	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/	0.000/
71	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Aggregate										
72	Growth	-	-	-	-	-	-	-	-	-	-
73	Tonnage	226,598	226,790	226,968	227,133	227,286	227,430	227,566	227,697	227,824	227,947
74	Annual Percent Change	0.09%	0.08%	0.08%	0.07%	0.07%	0.06%	0.06%	0.06%	0.06%	0.05%
75	Total Ash Residue	231,261	231,453	231,631	231,796	231,949	232,093	232,229	232,360	232,487	232,611
76	Annual Percent Change	0.09%	0.08%	0.08%	0.07%	0.07%	0.06%	0.06%	0.06%	0.05%	0.05%
	M-I-I										
	Mulch										
	Reject										
77	Growth	-	-	-	-	-	-	-	-	-	-
78	Tonnage	504	504	504	504	504	504	504	504	504	504
79	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	By-Pass Ash										
80	Growth	-	_	-	_	_	_	_	_	_	_
81	Tonnage	_	_	_	_	_	_	_	_	_	_
82	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
02	Total Mulch	504	504	504	504	504	504	504	504	504	504
83											
84	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Total Processed Tons:										
85	MSW	954,090	954,835	955,527	956,167	956,762	957,320	957,849	958,357	958,850	959,331
86	Other Waste	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624
87	Class III	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822
88	Metals	32,560	32,587	32,613	32,637	32,659	32,679	32,699	32,718	32,736	32,754
89	Ash	231,261	231,453	231,631	231,796	231,949	232,093	232,229	232,360	232,487	232,611
90	Mulch	504	504	504	504	504	504	504	504	504	504
91	Total Processed Tons	1,335,861	1,336,825	1,337,721	1,338,550	1,339,320	1,340,043	1,340,727	1,341,385	1,342,023	1,342,645
92	Less Residuals	(263,821)	(264,040)	(264,244)	(264,433)	(264,608)	(264,772)	(264,928)	(265,078)	(265,223)	(265,364)
93	Less Excavated Waste	(203,821)	(204,040)	(204,244)	(204,433)	(204,008)	(204,772)	(204,928)	(203,078)	(203,223)	(203,304)
93 94	Net Inbound Tons	1,599,682	1,600,865	1,601,965	1,602,983	1,603,928	1,604,815	1,605,655	1,606,462	1,607,246	1,608,009
	Diverted Tons										
95	MSW / Class I	93,086	93,086	93,086	93,086	93,086	93,086	93,086	93,086	93,086	93,086
96	Other Waste	278	278	278	278	278	278	278	278	278	278
97	Total Diverted Tons	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364
	WTE Plant Tons										
98	MSW / Class I	859,980	860,726	861,418	862,058	862,653	863,211	863,740	864,248	864,741	865,221
99	Other Waste	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011
100	Class III	,	-	,	-	-	-	-	-	,	,
101	Total WTE Plant Tons	879,992	880,737	881,429	882,069	882,664	883,222	883,751	884,259	884,752	885,233
101	Less: Pit Rejects	879,992	000,737	001,427	002,009	002,004	003,222	003,731	004,437	004,732	005,233
102	Less: Pit Rejects Less: Recyclables	-	-	-	-	-	-	-	-	-	-
		02.264	02.264	02.264	02.264	02.264	02.264	02.264	02.264	02.264	02.264
104	Plus: Diverted Tons	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364
105	Total Available for WTE Plant	973,355	974,100	974,793	975,433	976,028	976,586	977,115	977,623	978,116	978,596

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line						Fiscal Yea	r Ending Septembe	r 30.				
No.	Description	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
	By-Pass Ash											
69	Growth	_	_					_	_	_		
70	Tonnage	_	-	=	=	=	=	=	-	-	_	_
71	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
/1	Annual Fercent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Aggregate											
72	Growth	-	-	-	-	-	-	-	-	-	-	-
73	Tonnage	228,068	228,185	228,299	228,409	228,516	228,620	228,719	228,815	228,905	228,990	229,069
74	Annual Percent Change	0.05%	0.05%	0.05%	0.05%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.03%
75	Total Ash Residue	232,731	232,848	232,962	233,073	233,180	233,283	233,383	233,478	233,568	233,653	233,733
76	Annual Percent Change	0.05%	0.05%	0.05%	0.05%	0.05%	0.04%	0.04%	0.04%	0.04%	0.04%	0.03%
	Mulch											
	Reject											
77	Growth	_	_					_	_	_		_
78	Tonnage	504	504	504	504	504	504	504	504	504	504	504
79			0.00%		0.00%			0.00%		0.00%	0.00%	0.00%
79	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	By-Pass Ash											
80	Growth	-	-	-	-	-	-	-	-	-	-	-
81	Tonnage	-	-	-	-	-	-	-	-	-	-	-
82	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
83	Total Mulch	504	504	504	504	504	504	504	504	504	504	504
84	Annual Percent Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	Total Processed Tons:											
85	MSW	959,798	960,253	960,695	961,124	961,540	961,942	962,329	962,699	963,049	963,378	963,688
86	Other Waste	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624	29,624
87	Class III	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822	87,822
88	Metals	32,771	32,788	32,804	32,820	32,835	32,850	32,865	32,878	32,891	32,903	32,915
89	Ash	232,731	232,848	232,962	233,073	233,180	233,283	233,383	233,478	233,568	233,653	233,733
90	Mulch	504	504	504	504	504	504	504	504	504	504	504
91	Total Processed Tons	1,343,250	1,343,839	1,344,411	1,344,967	1,345,506	1,346,026	1,346,526	1,347,005	1,347,458	1,347,885	1,348,285
92	Less Residuals	(265,502)	(265,636)	(265,766)	(265,893)	(266,015)	(266,134)	(266,247)	(266,356)	(266,459)	(266,556)	(266,648)
93	Less Excavated Waste	-	-	-	-	-	-	-	-	-	-	-
94	Net Inbound Tons	1,608,752	1,609,475	1,610,177	1,610,860	1,611,521	1,612,159	1,612,773	1,613,362	1,613,918	1,614,441	1,614,933
	Diverted Tons											
95	MSW / Class I	93,086	93,086	93,086	93,086	93,086	93,086	93,086	93,086	93,086	93,086	93,086
96	Other Waste	278	278	278	278	278	278	278	278	278	278	278
97	Total Diverted Tons	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364
	WTE Plant Tons											
98	MSW / Class I	865,689	866,144	866,586	867,015	867,431	867,833	868,219	868,590	868,940	869,269	869,578
99	Other Waste	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011
100	Class III	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011	20,011
100												
101	Total WTE Plant Tons	885,700	886,155	886,597	887,026	887,442	887,844	888,231	888,601	888,951	889,280	889,590
102	Less: Pit Rejects	-	-	-	-	-	-	-	-	-	-	-
103	Less: Recyclables	-	-	-	-	-	-	-	-	-	-	-
104	Plus: Diverted Tons	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364
105	Total Available for WTE Plant	979,064	979,518	979,961	980,390	980,806	981,208	981,594	981,965	982,315	982,644	982,953

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line Fiscal Year Ending September 30,											
No.	Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	Landfill Tons										
106	MSW / Class I	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023
107	Other Waste - SLF	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075
108	Class III - SLF	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538
109	Class III - WLF	-	-	-	-	-	-	-	-	-	-
110	Ash /Residues - SLF	209,986	222,116	220,124	229,578	229,843	230,105	230,360	230,605	230,837	231,056
111	Ash /Residues - WLF	-	-	-	-	-	-	-	-	-	-
112	Plus: Diverted Tons	176,278	120,278	129,049	93,364	93,364	93,364	93,364	93,364	93,364	93,364
113	Total Landfilled Tons	442,899	399,030	405,809	379,578	379,843	380,105	380,360	380,605	380,837	381,056
	Other Disposal										
114	Yard Waste Processing	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284
115	Out the Door Recycling	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260
116	Processor	29,503	31,246	30,959	32,318	32,356	32,394	32,430	32,465	32,499	32,530
117	Mulch	504	504	504	504	504	504	504	504	504	504
118	Total Other Disposal	71,551	73,294	73,008	74,366	74,404	74,442	74,478	74,514	74,547	74,578
119	Total Waste Disposed	1,311,818	1,316,801	1,315,557	1,327,399	1,328,732	1,330,047	1,331,329	1,332,561	1,333,728	1,334,828

Appendix B

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Projected Solid Waste Tonnages

Line						Fiscal Year Ending	September 30,				
No.	Description	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Landfill Tons										
106	MSW / Class I	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023
107	Other Waste - SLF	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075
108	Class III - SLF	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538
109	Class III - WLF	-	-	-	-	-	-	-	-	-	-
110	Ash /Residues - SLF	231,261	231,453	231,631	231,796	231,949	232,093	232,229	232,360	232,487	232,611
111	Ash /Residues - WLF	-	-	-	-	-	-	-	-	-	-
112	Plus: Diverted Tons	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364
113	Total Landfilled Tons	381,261	381,453	381,631	381,796	381,949	382,093	382,229	382,360	382,487	382,611
	Other Disposal										
114	Yard Waste Processing	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284
115	Out the Door Recycling	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260
116	Processor	32,560	32,587	32,613	32,637	32,659	32,679	32,699	32,718	32,736	32,754
117	Mulch	504	504	504	504	504	504	504	504	504	504
118	Total Other Disposal	74,608	74,635	74,661	74,685	74,707	74,727	74,747	74,766	74,784	74,802
119	Total Waste Disposed	1,335,861	1,336,825	1,337,721	1,338,550	1,339,320	1,340,043	1,340,727	1,341,385	1,342,023	1,342,645

Appendix B

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Projected Solid Waste Tonnages

Line						Fiscal Yea	ar Ending Septembe	er 30,				
No.	Description	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
	Landfill Tons											
106	MSW / Class I	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023	1,023
107	Other Waste - SLF	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075
108	Class III - SLF	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538	49,538
109	Class III - WLF	-	-	-	-	-	-	-	-	-	-	-
110	Ash /Residues - SLF	232,731	232,848	232,962	233,073	233,180	233,283	233,383	233,478	233,568	233,653	233,733
111	Ash /Residues - WLF	-	-	-	-	-	-	-	-	-	-	-
112	Plus: Diverted Tons	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364	93,364
113	Total Landfilled Tons	382,731	382,848	382,962	383,072	383,180	383,283	383,383	383,478	383,568	383,653	383,733
	Other Disposal											
114	Yard Waste Processing	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284	38,284
115	Out the Door Recycling	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260	3,260
116	Processor	32,771	32,788	32,804	32,820	32,835	32,850	32,865	32,878	32,891	32,903	32,915
117	Mulch	504	504	504	504	504	504	504	504	504	504	504
118	Total Other Disposal	74,819	74,836	74,852	74,868	74,884	74,898	74,913	74,926	74,939	74,952	74,963
119	Total Waste Disposed	1,343,250	1,343,839	1,344,411	1,344,967	1,345,506	1,346,026	1,346,526	1,347,005	1,347,458	1,347,885	1,348,285

Appendix C

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Capital Improvement Funding Plan

Line		Funding						Projected I	iscal	Year Ending Septe	mber 30						iscal Years		
No.	Project Description	Source		2018		2019		2020		2021	2022		2023		2024	2	2025 - 2048	-	Total
	432310 Solid Waste Site & Waste Reduction																		
1	Add two additional electric vehicle charging stations.	Cap/R&R	\$	-	\$	-	\$	-	\$	- \$	-	\$	-	\$	-	\$	-	\$	_
2	Additional technology to treat the brine generated as a process of the reverse osmosis treatment process.	Cap/R&R		-		_		250,000		3,000,000	1,500,000		-		-		_		4,750,000
3	Annual program to upgrade technology and equipment in support of the utility SCADA system.	Cap/R&R		70,400		36,400		36,400		36,400	36,400		36,400		36,400		-		288,800
4	Anticipated replacement of scales due to heavy use.	Cap/R&R		-		-		6,590,000		2,000,000	-		-		-		-		8,590,000
	Construct a 192' fender system based on FDOT standards using fiberglass reinforced polymeric material for the																		
5	piling with composite lumber wales and treated lumber for the top walking surface.	Cap/R&R		770,000		279,000		-		-	-		-		-		-		1,049,000
6	Construct a material recovery facility to capture and segregate recyclable materials from a mixed waste stream.	Cap/R&R		-		-		4,000,000		20,000,000	20,000,000		-		-		-		44,000,000
7	Adjustment - Remove MRF from CIP	Cap/R&R		-		-		(4,000,000)		(20,000,000)	(20,000,000)		-		-		-		(44,000,000)
8	Construct a permanent site for mobile chemical and electronic collections in the south end of the county.	Cap/R&R		-		-		200,000		2,500,000	-		-		-		-		2,700,000
9	Construct a transfer station to consolidate materials from multiple garbage trucks for transfer offsite.	Cap/R&R		-		-		-		-	-		-		3,000,000		30,000,000 (30,000,000)		33,000,000
10 11	Adjustment - Remove Transfer Station from CIP Construct new HEC3 (Household Electronics and Chemical Collection Center) Facility in the north county area.	Cap/R&R		775 000		1,300,000		-		-	-		-		(3,000,000)		(30,000,000)		(33,000,000)
12	Create additional outbound scale lane to weigh outbound vehicles.	Cap/R&R Cap/R&R		775,000		1,300,000		-		200,000	-		-		-		-		2,075,000 200,000
12	Design appropriately size slab and ingress/egress modifications to facilitate the container pickup and placement for			-		-		-		200,000	-		-		-		-		200,000
13	four containers slots.	Cap/R&R		160,000		130,000		_		130,000	_		_		_		_		420,000
14	Engineering design of bucket mounting system and mounting bucket. Layout, concept, and construct Kiosks.	Cap/R&R		100,000		300,000		_		150,000	_		_		_		_		300,000
• •		сирлист				500,000													200,000
15	Evaluation of biological fouling. This includes phase II for new pond A intake and improvements to reverse	C/D 8-D		700,350															700,350
16	osmosis feed tank and chemical injection. Fill in the remaining basins at the sod farm	Cap/R&R Cap/R&R		100,000		250,000		-		-	-		-		-		-		350,000
17	Improvements to the water management plan at the Bridgeway Acres site	Cap/R&R Cap/R&R		100,000		250,000													100,000
18	Install additional ventilation fans at the HEC facility	Cap/R&R		50,000		_		_		_	_		_		_		_		50,000
19	Install equipment for dewatering sludge from the water treatment plan	Cap/R&R		-		-		100,000		3,000,000	1,500,000		_		_		-		4,600,000
20	Install piping from the Industrial Waste Treatment Facility (IWTF) to an offsite discharge outfal	Cap/R&R		1,100,000		1,100,000		· -		· · ·	· · · · -		-		-		_		2,200,000
21	Purchase/install variable message board to span over all three inbound lanes	Cap/R&R		425,000		-		-		-	-		-		-		-		425,000
22	Rehabilitation and replacement of internal roads as needed	Cap/R&R		450,000		100,000		100,000		100,000	100,000		100,000		100,000		-		1,050,000
23	Rehabilitation and replacement of operational infrastructure at Bridgeway Acres Landfil	Cap/R&R		1,708,000		1,000,000		1,000,000		1,000,000	1,000,000		1,000,000		1,000,000		-		7,708,000
24	Replace existing canopy over the scales and booths	Cap/R&R		25.000		-		350,000		3,500,000	-		-		-		-		3,850,000
25 26	Replace existing equipment and add detectors to two new scale: Technology assessment for operation concept, including pilot testing various processing equipment	Cap/R&R Cap/R&R		25,000		-		-		-	-		-		-		-		25,000
27	Technology assessment to identify and evaluate options for organics processing	Cap/R&R Cap/R&R		-				200,000		800,000	-		-		-		-		1,000,000
28	Vegetation screening of operations and site enhancement for public benefi	Cap/R&R		100,000		250,000		200,000		-	_		_		_		_		350,000
29	Waste-To-Energy (WTE) & 110th Roadway and Drainage Redesign	Cap/R&R		600,000		700,000		_		_	_		_		_		-		1,300,000
		•																	
30	Subtotal 432310		\$	7,133,750	\$	5,445,400	\$	8,826,400	\$	16,266,400 \$	4,136,400	\$	1,136,400	\$	1,136,400	\$	-	\$	44,081,150
	432311 Landfill																		
31	Begin closure activities for Bridgeway Acres (BWA) landfill for areas that have reached final elevation on side slopes.	Cap/R&R	\$	1,993,000	s	_	\$		s	¢	4,000,000	\$	4.000.000	s		s		•	9,993,000
32	Design and install equipment to capture and manage stormwater before it mixes with leachate.	Cap/R&R Cap/R&R	٠	1,700,000	φ	1,300,000	φ	-	φ	- φ	4,000,000	φ	4,000,000	φ	_	J	-	φ	3,000,000
33	Gas processing equipment to convert to fuel or electricity.	Cap/R&R		200,000		2,000,000		1,000,000		-							-		3,200,000
34	Reconstruct sod farm slurry wall.	Cap/R&R		200,000		1,000,000		12,000,000		_	_		_		_		_		13,000,000
٠.	reconstant sea and starty main	Сирятеся				1,000,000		12,000,000											13,000,000
35	Subtotal 432311		\$	3,893,000	\$	4,300,000	\$	13,000,000	\$	- \$	4,000,000	\$	4,000,000	\$	-	\$	-	\$	29,193,000
2.5	432312 Waste-to-Energy	G /P 0 F	c	105.000	6					_		6				c		c	105 000
36	All roadways and building Technical Recovery Program projects on Solid Waste property.	Cap/R&R	\$	195,000	\$	-	3	-	\$	- \$	-	\$	-	\$	-	\$	-	\$	195,000
37	Capital improvement projects to replace or perform major repairs on significant systems or operating equipment within the Waste-To-Energy Facility.	C/D 8-D		770,200		393,200													1,163,400
3/	Extend covered area for tipping floor at the Waste To Energy Facility. This includes covering the entire tarmac	Cap/R&R		//0,200		393,200		-		-	-		-		-		-		1,163,400
38	area.	Cap/R&R				_		3,000,000											3,000,000
39	Infrastructure needed to support a comprehensive ash processing facility.	Cap/R&R Cap/R&R		-		250,000		2,500,000		-	-		-		-		-		2,750,000
39	Repair and replacement of Waste-To-Energy (WTE) stoker, grates, boiler tubes and combustion control systems	Cap/R&R		-		230,000		2,300,000		-	-		-		-		-		2,730,000
40	that were not in Acceptable Operating Condition when the WTE contract was awarded as part of the Technical	Cap/R&R		33,297,000		14,642,000		5,651,000		4,650,000	_		_		_		_		58,240,000
40	Repair and replacement of Waste-To-Energy (WTE) turbine generator systems that were not in Acceptable	Cup/recre		33,277,000		14,042,000		3,031,000		4,050,000									30,240,000
41	Operating Condition when the WTE contract was awarded as part of the Technical Recovery Program.	Cap/R&R		1,818,400		530,200		468,064		_	_		_		_		_		2,816,664
71	Repair and replacement of Waste-To-Energy (WTE) instrumentation and control systems that were not in	Сирински		1,010,400		330,200		400,004											2,010,004
42	Acceptable Operating Condition when the WTE contract was awarded as part of the Technical Recovery Program.	Can/R&R		760,100		_		_		_	_		_		_		_		760,100
	Repair and replacement of Waste-To-Energy (WTE) mechanical systems that were not in Acceptable Operating	<u>F</u>		, ,															,
43	Condition when the WTE Contract was awarded as part of the Technical Recovery Program.	Cap/R&R		3,786,100		303,200		_		-	-		_		_		_		4,089,300
	Repair and replacement of Waste-To-Energy (WTE) refuse receiving and storage areas, including crane system,			, .,		-,													
44	that were not in Acceptable Operating Condition when the WTE contract was awarded as part of the Technical	Cap/R&R		1,136,000		_		-		-	-		-		-		-		1,136,000
	Replacement of Waste-To-Energy (WTE) air pollution control systems that were not in Acceptable Operating	-																	
45	Condition when the WTE Contract was awarded as part of the Technical Recovery Program.	Cap/R&R		10,905,700		4,519,000		-		-	-		-		-		-		15,424,700
	Replacement of Waste-To-Energy (WTE) ash collection, transfer, and treatment systems that were not in																		
46	Acceptable Operating Condition when the WTE contract was awarded as part of the Technical Recovery Program	Cap/R&R		1,193,410		-		-		-	-		-		-		-		1,193,410
	Replacement of Waste-To-Energy (WTE) electrical systems that were not in Acceptable Operating Condition																		

Appendix C

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Capital Improvement Funding Plan

Line		Funding			Projected F	iscal	Year Ending Se	eptem	ber 30			Fiscal Years	
No.	Project Description	Source	2018	2019	2020		2021		2022	 2023	 2024	2025 - 2048	 Total
47	when the WTE contract was awarded as part of the Technical Recovery Program. Upgrades to Waste-to-Energy (WTE) structures and equipment resulting from changes in law or to improve	Cap/R&R	997,000	1,050,000	-		-		-	-	-	-	2,047,000
48	performance or environmental compliance.	Cap/R&R	2,000,000	2,000,000	2,000,000		2,000,000		2,000,000	2,000,000	2,000,000	-	14,000,000
49	Metals Pilot Initial Investment	Cap/R&R	-	-	-		2,000,000		-	-	-	-	2,000,000
50	Subtotal 432312		\$ 56,858,910	\$ 23,687,600	\$ 13,619,064	\$	8,650,000	\$	2,000,000	\$ 2,000,000	\$ 2,000,000	\$ -	\$ 108,815,574
51 52	Departmental Capital Outlay Estimated Capital Improvements Outside Current Budgeted CIP	Cap/R&R Cap/R&R	\$ 630,369	\$ 515,840	\$ 1,000,000	\$	1,000,000	\$	1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 24,000,000 558,236,420	30,146,209 558,236,420
53	Grand Total Capital Improvement Plan		\$ 68,516,029	\$ 33,948,840	\$ 36,445,464	\$	25,916,400	\$	11,136,400	\$ 8,136,400	\$ 4,136,400	\$ 582,236,420	\$ 770,472,353
54	Project Funding Sources Summary Capital / Renewal and Replacement Fund	Cap/R&R	\$ 68,516,029	\$ 33,948,840	\$ 36,445,464	\$	25,916,400	\$	11,136,400	\$ 8,136,400	\$ 4,136,400	\$ 582,236,420	\$ 770,472,353
55	Grand Total Funding Sources		\$ 68,516,029	\$ 33,948,840	\$ 36,445,464	\$	25,916,400	\$	11,136,400	\$ 8,136,400	\$ 4,136,400	\$ 582,236,420	\$ 770,472,353

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line									F	iscal Year Endi	ng Se	ptember 30,								
No.	Description		2018		2019	 2020		2021		2022		2023		2024		2025		2026		2027
1	Operation and Maintenance Expenses	\$	80,135,908	\$	74,920,827	\$ 73,172,385	\$	68,440,983	\$	69,052,185	\$	71,359,983	\$	73,661,691	\$	76,036,951	\$	78,498,207	\$	81,041,360
	Other Revenue Requirements Other Transfers and Funding Requirements:																			
2	Transfer to Landfill Closure Fund	\$		\$	-	\$ 3,336,683	\$	3,218,618	\$	2,371,530	\$	2,338,706	\$	3,293,438	\$	3,350,620	\$	3,408,744	\$	3,467,916
3	Transfer to Capital Fund		16,121,667		17,477,234	18,540,310		19,335,201		19,971,406		20,238,112		20,429,817		20,334,092		20,640,158		20,950,676
5	Transfer to Rate Stabilization Fund Transfer to Operating Fund Reserves		10,710,807		14,910,541 4,033,632	18,056,119 3,514,626		28,302,019 4,337,655		36,047,950 4,259,274		40,296,419 4,938,590		44,565,387 5,214,322		585,680		606,885		638,481
3	Transfer to Operating Fund Reserves		-		4,033,032	3,314,626		4,337,633		4,239,274		4,938,390		3,214,322		383,080		000,883		038,481
6	Total Other Transfers and Funding Requirements	\$	26,832,474	\$	36,421,407	\$ 43,447,740	\$	55,193,492	\$	62,650,161	\$	67,811,826	\$	73,502,964	\$	24,270,392	\$	24,655,786	\$	25,057,073
7	Total Other Revenue Requirements		26,832,474		36,421,407	43,447,740		55,193,492		62,650,161		67,811,826		73,502,964		24,270,392		24,655,786		25,057,073
8	Gross Revenue Requirements	\$	106,968,382	\$	111,342,234	\$ 116,620,125	\$	123,634,475	\$	131,702,345	\$	139,171,809	\$	147,164,655	\$	100,307,343	\$	103,153,994	\$	106,098,433
	Less Income and Funds from Other Sources:																			
	Interest Income																			
9	Disposal - Operating Reserve	\$	1,329,700	\$	852,400	\$ 881,600	\$	912,900	\$	950,000	\$	996,000	\$	1,046,800	\$	787,200	\$	406,500	\$	314,600
10	Disposal - Capital Reserve		345,100 377,700		250,000	250,000		250,000		250,000		250,000		250,000		250,000		250,000		250,000
11 12	Disposal - Rate Stabilization Disposal - Convanta Reserve		52,300		757,800 48,500	766,900 41,000		891,800 33,400		1,238,200 25,800		1,729,400 21,000		2,296,700 20,000		2,851,300 20,000		3,063,600 20,000		2,889,900 20,000
13	Electric Energy Sales		10,697,410		11,329,424	11,225,623		11,718,186		11,732,000		11,745,633		11,758,918		11,771,679		11,783,775		11,795,177
14	Electric Capacity Payments		53,412,458		56,814,075	60,432,503		64,277,595		68,372,348		72,728,258		77,361,750		19,634,445		11,765,775		11,/95,1//
15	Metals County Share		769,460		950,037	941,333		982,637		983,795		984,939		986,053		987,123		988,137		989,093
16	Metals Covanta Share		769,460		950,037	941,333		982,637		983,795		984,939		986,053		987,123		988,137		989,093
17	Other Revenues		87,773		622,340	59,130		59,130		1,059,130		1,059,130		1,059,130		1,059,130		1,059,130		1,059,130
18	Transfer from Rate Stabilization		-		-	-		-		-		-		-		7,662,455		27,219,310		27,145,659
19	Net Revenue Requirements from Rates	\$	39,127,021	\$	38,767,620	\$ 41,080,703	\$	43,526,191	\$	46,107,278	\$	48,672,511	\$	51,399,252	\$	54,296,889	\$	57,375,405	\$	60,645,780
	DISPOSAL FEE REVENUE:																			
20	Revenues Under Existing & Adopted Rates:	s	16,848,729		16,890,328	16,929,097	•	16,967,715	e	17,006,328		17,044,437	e	17.081.570	e	17,117,239	¢.	17,151,050	¢.	17.182.921
20 21	Tipping Fee Revenue - MSW Tipping Fee Revenue - Commercial Waste	2	16,848,729	3	16,890,328	\$ 16,929,097	\$	16,967,715	2	17,006,328	3	17,044,437	2	17,081,570	3	17,117,239	3	16,715,269	2	17,182,921
22	Tipping Fee Revenue - Commercial Waste Tipping Fee Revenue - Yard Waste		17,013,269		171.000	171,000		171,000		171.000		171,000		171,000		171,000		171,000		171.000
23	Tipping Fee Revenue - Tires		585,899		484,899	484,899		484,899		484,899		484,899		484,899		484,899		484,899		484,899
24	Handunload / Flat Fee Revenue		4,506,124		4,506,124	4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124
2-1	Tanadanous / I litt I de Revenue		7,500,124		7,500,124	7,500,124		7,500,124		7,500,124		7,500,127		4,500,124		7,500,127		7,500,127		4,500,124
25	Total Disposal Rate / Fee Revenue - Existing Rates	\$	39,127,021	\$	38,767,620	\$ 38,806,389	\$	38,845,007	\$	38,883,620	\$	38,921,729	\$	38,958,862	\$	38,994,531	\$	39,028,342	\$	39,060,213

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line									I	Fiscal Year Endi	ng Se	ptember 30.				
No.	Description	 2028		2029		2030		2031		2032		2033	2034	2035	2036	2037
1	Operation and Maintenance Expenses	\$ 83,694,100	s	86,441,209	\$	89,276,807	\$	92,214,970	\$	95,282,339	\$	98,453,204	\$ 101,727,253	\$ 105,139,112	\$ 108,424,370	\$ 111,821,657
14 15 16	Other Revenue Requirements Other Transfers and Funding Requirements: Transfer to Landfill Closure Fund Transfer to Capital Fund Transfer to Rate Stabilization Fund	\$ 3,528,167 21,265,713	\$	3,589,314 21,585,334	\$	3,651,627 21,909,605	\$	3,714,928 22,238,595	\$	3,779,378 22,572,371	\$	3,844,913 22,911,004	\$ 3,911,684 23,254,565	\$ 3,979,590 23,603,124	\$ 4,048,770 23,956,755	\$ 4,119,234 24,315,532
17	Transfer to Operating Fund Reserves	664,802		687,365		708,475		733,068		764,321		789,343	814,396	848,092	816,682	844,133
18	Total Other Transfers and Funding Requirements	\$ 25,458,683	\$	25,862,013	\$	26,269,707	\$	26,686,590	\$	27,116,070	\$	27,545,261	\$ 27,980,645	\$ 28,430,806	\$ 28,822,207	\$ 29,278,899
19	Total Other Revenue Requirements	25,458,683		25,862,013		26,269,707		26,686,590		27,116,070		27,545,261	27,980,645	28,430,806	28,822,207	29,278,899
20	Gross Revenue Requirements	\$ 109,152,783	\$	112,303,222	\$	115,546,514	\$	118,901,561	\$	122,398,409	\$	125,998,464	\$ 129,707,898	\$ 133,569,918	\$ 137,246,578	\$ 141,100,556
	Less Income and Funds from Other Sources: Interest Income															
21 22 23 24 25	Disposal - Operating Reserve Disposal - Capital Reserve Disposal - Rate Stabilization Disposal - Convanta Reserve Electric Energy Sales	\$ 321,100 250,000 2,619,200 20,000 11,805,879	S	327,900 250,000 2,350,900 20,000 11,815,875	\$	334,800 250,000 2,086,200 20,000 11,825,162	\$	342,100 250,000 1,826,400 20,000 11,833,751	\$	349,500 250,000 1,573,300 20,000 11,841,734	\$	357,300 250,000 1,328,700 20,000 11,849,220	\$ 365,300 250,000 1,094,600 20,000 11,856,316	\$ 373,600 250,000 872,900 20,000 11,863,128	\$ 382,000 250,000 667,000 20,000 11,869,746	\$ 390,300 250,000 480,800 20,000 11,876,192
26 27 28	Electric Capacity Payments Metals County Share Metals Covanta Share	989,991 989,991		990,829 990,829		991,608 991,608		992,328 992,328		992,997 992,997		993,625 993,625	994,220 994,220	994,791 994,791	995,346 995,346	995,887 995,887
29 30	Other Revenues Transfer from Rate Stabilization	1,059,130 26,977,742		1,059,130 26,688,009		1,059,130 26,259,037		1,059,130 25,694,043		1,059,130 24,931,283		1,059,130 23,983,500	1,059,130 22,836,969	1,059,130 21,513,598	1,059,130 19,651,748	1,059,130 17,589,163
31	Net Revenue Requirements from Rates	\$ 64,119,750	\$	67,809,750	\$	71,728,970	\$	75,891,482	\$	80,387,468	\$	85,163,365	\$ 90,237,143	\$ 95,627,980	\$ 101,356,261	\$ 107,443,197
32 33 34 35 36	DISPOSAL FEE REVENUE: Revenues Under Existing & Adopted Rates: Tipping Fee Revenue - MSW Tipping Fee Revenue - Commercial Waste Tipping Fee Revenue - Yard Waste Tipping Fee Revenue - Tires Handunload / Flat Fee Revenue	\$ 17,212,835 16,715,269 171,000 484,899 4,506,124	\$	17,240,776 16,715,269 171,000 484,899 4,506,124	S	17,266,734 16,715,269 171,000 484,899 4,506,124	S	17,290,742 16,715,269 171,000 484,899 4,506,124	\$	17,313,056 16,715,269 171,000 484,899 4,506,124	\$	17,333,980 16,715,269 171,000 484,899 4,506,124	\$ 17,353,816 16,715,269 171,000 484,899 4,506,124	\$ 17,372,857 16,715,269 171,000 484,899 4,506,124	\$ 17,391,355 16,715,269 171,000 484,899 4,506,124	\$ 17,409,373 16,715,269 171,000 484,899 4,506,124
37	Total Disposal Rate / Fee Revenue - Existing Rates	\$ 39,090,127	\$	39,118,068	\$	39,144,026	\$	39,168,034	\$	39,190,348	\$	39,211,272	\$ 39,231,108	\$ 39,250,149	\$ 39,268,647	\$ 39,286,665

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line											Fiscal	Year	Ending Septemb	er 30),							
No.	Description		2038		2039		2040		2041		2042		2043		2044		2045	2046		2047		2048
1	Operation and Maintenance Expenses	\$	115,325,778	\$	118,985,599	\$	122,761,848	\$	126,660,021	\$	130,720,468	\$	134,919,184	s	139,258,309	\$	143,769,478	\$ 148,434,869	\$	153,254,710	\$	158,276,664
	Other Revenue Requirements Other Transfers and Funding Requirements:																					
14	Transfer to Landfill Closure Fund	\$	4,190,853	\$	4,263,906	\$	4,338,218	\$	4,413,932	\$	4,490,929	\$., ,	\$	4,649,230	\$	4,730,542	\$ 4,813,231	\$	4,897,517	\$	4,983,148
15 16	Transfer to Capital Fund Transfer to Rate Stabilization Fund		24,679,529		25,048,822		25,423,489		25,803,607		26,189,256		26,580,517		26,977,471		27,380,200 4,418,518	27,788,789		28,203,324		28,623,890
17	Transfer to Rate Stabilization Fund Transfer to Operating Fund Reserves		870,299		908,523		937,061		966,955		1,006,788		1,359,494 1,040,691		3,214,186 1,075,105		1,117,310	4,911,395 1,155,065		5,439,822 1,192,876		5,951,251 1,242,438
1 /	Transfer to Operating Fund Reserves		870,299		900,323		937,001		900,933		1,000,788		1,040,091		1,075,105		1,117,310	1,133,003		1,192,870		1,242,436
18	Total Other Transfers and Funding Requirements	\$	29,740,681	\$	30,221,251	\$	30,698,768	\$	31,184,495	\$	31,686,974	\$	33,550,129	\$	35,915,992	\$	37,646,570	\$ 38,668,481	\$	39,733,539	\$	40,800,727
19	Total Other Revenue Requirements		29,740,681		30,221,251		30,698,768		31,184,495		31,686,974		33,550,129		35,915,992		37,646,570	38,668,481		39,733,539		40,800,727
20	Gross Revenue Requirements	\$	145,066,459	\$	149,206,851	\$	153,460,616	\$	157,844,516	\$	162,407,442	\$	168,469,313	\$	175,174,301	\$	181,416,048	\$ 187,103,350	\$	192,988,250	\$	199,077,391
	Less Income and Funds from Other Sources:																					
	Interest Income		200.000		405 500		417.000		102 100		256 500		272 400		204.000		205.000	10.5 200		410.100		420.200
21 22	Disposal - Operating Reserve Disposal - Capital Reserve	\$	398,800 250,000	\$	407,700 250,000	\$	417,000 250,000	\$	403,400 250,000	\$	376,700 250,000	\$	373,400 250,000	\$	384,000 250,000	\$	395,000 250,000	\$ 406,300 250,000	\$	418,100 250,000	\$	430,300 250,000
22	Disposal - Capital Reserve Disposal - Rate Stabilization		316,700		177,400		65,900		250,000 8,800		250,000		6,800		250,000		67,800	114,500		166,200		250,000
24	Disposal - Convanta Reserve		20,000		20,000		20,000		20,000		20,000		20,000		20,000		20,000	20,000		20,000		20,000
25	Electric Energy Sales		11,882,461		11,888,562		11,894,493		11,900,255		11,905,837		11,911,228		11,916,412		11,921,379	11,926,074		11,930,496		11,934,644
26	Electric Capacity Payments		-		-		-		-		-		-		-		-	-		-		-
27	Metals County Share		996,412		996,924		997,421		997,905		998,373		998,825		999,259		999,676	1,000,070		1,000,440		1,000,788
28	Metals Covanta Share		996,412		996,924		997,421		997,905		998,373		998,825		999,259		999,676	1,000,070		1,000,440		1,000,788
29	Other Revenues		1,059,130		1,059,130		1,059,130		1,059,130		1,059,130		1,059,130		1,059,130		1,059,130	1,059,130		1,059,130		1,059,130
30	Transfer from Rate Stabilization		15,235,428		12,626,370		9,672,655		1,753,891		-		100		-		-	-		-		-
31	Net Revenue Requirements from Rates	\$	113,911,115	\$	120,783,841	\$	128,086,595	\$	140,453,231	\$	146,799,029	\$	152,851,006	\$	159,516,540	\$	165,703,387	\$ 171,327,207	\$	177,143,443	\$	183,158,541
	DISPOSAL FEE REVENUE:																					
22	Revenues Under Existing & Adopted Rates:	s	17 426 906	e	17 442 050	•	17 460 520	e	17 476 634	e	17 402 229	e	17 507 206		17 521 705		17 525 690	17 549 902	e	17.561.162	e	17 572 759
32 33	Tipping Fee Revenue - MSW Tipping Fee Revenue - Commercial Waste	2	17,426,896 16,715,269	3	17,443,950 16,715,269	2	17,460,529 16,715,269	3	17,476,634 16,715,269	2	17,492,238 16,715,269	2	17,507,306 16,715,269	\$	17,521,795 16,715,269	3	17,535,680 16,715,269	\$ 17,548,803 16,715,269	\$	17,561,163 16,715,269	3	17,572,758 16,715,269
34	Tipping Fee Revenue - Yard Waste		171,000		171,000		171.000		171,000		171,000		171.000		171.000		171,000	171,000		171,000		171,000
35	Tipping Fee Revenue - Tires		484,899		484,899		484,899		484,899		484,899		484,899		484,899		484,899	484,899		484,899		484,899
36	Handunload / Flat Fee Revenue		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124	4,506,124		4,506,124		4,506,124
37	Total Disposal Rate / Fee Revenue - Existing Rates	\$	39,304,188	\$	39,321,242	\$	39,337,821	\$	39,353,926	\$	39,369,530	\$	39,384,598	\$	39,399,087	\$	39,412,972	\$ 39,426,095	\$	39,438,455	\$	39,450,050

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line								F	iscal Year Endi	ng Se	ptember 30,								
No.	Description	2018	2019		2020		2021		2022		2023		2024		2025		2026		2027
	Data Adinatorant Lauret (0/).																		
26	Rate Adjustment Input (%): Current Period Rate Adjustments - MSW	0.0%	0.0%		6.0%		6.0%		6.0%		6.2%		6.2%		6.2%		6.2%		6.2%
26 27																			6.2%
	Current Period Rate Adjustments - Commercial Waste	0.0%	0.0%		6.0%		6.0%		6.0%		6.2%		6.2%		6.2%		6.2%		
28	Current Period Rate Adjustments - Yard Waste	0.0%	0.0%		6.0%		6.0%		6.0%		6.2%		6.2%		6.2%		6.2%		6.2%
29	Current Period Rate Adjustments - Tires	0.0%	0.0%		48.5%		33.3%		25.0%		0.0%		0.0%		0.0%		0.0%		0.0%
30	Current Period Rate Adjustments - Flat Fees	0.0%	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%
31	Cumulative Prior Period Rate Adjustments - MSW	N/A	0.0%		0.0%		6.0%		12.4%		19.2%		26.6%		34.5%		42.9%		51.8%
32	Cumulative Prior Period Rate Adjustments - Commercial Waste	N/A	0.0%		0.0%		6.0%		12.4%		19.2%		26.6%		34.5%		42.9%		51.8%
33	Cumulative Prior Period Rate Adjustments - Yard Waste	N/A	0.0%		0.0%		6.0%		12.4%		19.2%		26.6%		34.5%		42.9%		51.8%
34	Cumulative Prior Period Rate Adjustments - Tires	N/A	0.0%		0.0%		48.5%		98.0%		147.5%		147.5%		147.5%		147.5%		147.5%
35	Cumulative Prior Period Rate Adjustments - Flat Fees	N/A	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%
	Calculated Prior Period Rate Adjustment Revenues:																		
36	Tipping Fee Revenue - MSW	N/A	\$ _	\$	_	\$	1.023,153	\$	2,112,800	\$	3,273,001	\$	4,548,666	\$	5,908,541	\$	7,357,552	\$	8,900,948
37	Tipping Fee Revenue - Commercial Waste	N/A	_		_		1,007,931		2,076,640		3,209,792		4,451,123		5,769,789		7,170,608		8,658,698
38	Tipping Fee Revenue - Yard Waste	N/A	_		_		10,311		21,244		32,837		45,536		59,026		73,357		88,580
39	Tipping Fee Revenue - Tires	N/A	_		_		235,248		475,297		715,346		715,346		715,346		715,346		715,346
40	Handunload / Flat Fee Revenue	N/A	_		_		233,210		.,,,,,,,		715,510		, 15,5 10		,15,510		, 10,0 .0		715,510
	Tandanioad / Tan Lee Revenue																		
41	Total Disposal Rate / Fee Revenue - Prior Period Rate Adjustments	N/A	\$ -	\$	-	\$	2,276,643	\$	4,685,981	\$	7,230,975	\$	9,760,670	\$	12,452,703	\$	15,316,863	\$	18,363,572
	Calculated Current Period Rate Adjustment Revenues:																		
42	Tipping Fee Revenue - MSW	\$ _	\$ -	\$	1,020,825	\$	1,084,849	\$	1,152,883	\$	1,265,776	\$	1,347,564	\$	1,434,506	\$	1,526,886	\$	1,625,025
43	Tipping Fee Revenue - Commercial Waste	_	-		1,007,931		1,068,709		1,133,152		1,241,331		1,318,666		1,400,819		1,488,090		1,580,798
44	Tipping Fee Revenue - Yard Waste	_	-		10,311		10,933		11,592		12,699		13,490		14,331		15,223		16,172
45	Tipping Fee Revenue - Tires	_	-		235,248		240,049		240,049		-		_		-		_		-
	Handunload / Flat Fee Revenue	_	_		_		_		_		_		-		_		_		_
		 	 	_		_						_		_		_		_	
46	Total Disposal Rate / Fee Revenue - Current Period Rate Adjustments	\$ -	\$ -	\$	2,274,315	\$	2,404,540	\$	2,537,677	\$	2,519,807	\$	2,679,720	\$	2,849,656	\$	3,030,200	\$	3,221,995
	Adjusted Rate Revenues:																		
47	Tipping Fee Revenue - MSW	\$ 16,848,729	\$ 16,890,328	\$		\$	19,075,718	\$	20,272,011	\$	21,583,214	\$	22,977,799	\$,,	\$	26,035,489	\$	27,708,894
48	Tipping Fee Revenue - Commercial Waste	17,015,269	16,715,269		17,723,200		18,791,909		19,925,061		21,166,392		22,485,058		23,885,877		25,373,967		26,954,766
49	Tipping Fee Revenue - Yard Waste	171,000	171,000		181,311		192,244		203,837		216,536		230,026		244,357		259,580		275,752
50	Tipping Fee Revenue - Tires	585,899	484,899		720,147		960,196		1,200,245		1,200,245		1,200,245		1,200,245		1,200,245		1,200,245
	Handunload / Flat Fee Revenue	4,506,124	4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124		4,506,124
51	Total Disposal Rate / Fee Revenue	\$ 39,127,021	\$ 38,767,620	\$	41,080,703	\$	43,526,191	\$	46,107,278	\$	48,672,511	\$	51,399,252	\$	54,296,889	\$	57,375,405	\$	60,645,780
	Revenue Surplus / (Deficiency) Under Proposed Rate Adjustments		 																
52	Amount of Surplus / (Deficiency)	\$	\$	\$	-	\$		\$		\$		\$		\$		\$		\$	-
53	As Percent of Existing Revenue	 0.00%	 0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

	Line										F	iscal Year Endi	ng Se	ptember 30,								
Section Current Priories Rate Adjustments - SMSW 6.2% 6.2	No.	Description		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037
Section Current Priories Rate Adjustments - SMSW 6.2% 6.2																						
	20									c 20/				c 20/						c 20/		6.20/
Current Period Rate Adjustments - Yard Waste 6.2% 6.																						
Current Period Rate Adjustments - Fise See O.0% O.																						
Current Period Rate Adjustments - Flat Pees																						
Cumulative Prior Perior Rata Adjustments - SMW 6.13% 7.13% 8.20% 93.3% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 177.8% 177.8% 105.4% 118.2% 131.7% 146.2% 161.5% 177.8% 1																						
44 Cumulative Prior Period Rate Adjustments - Commercial Waste 61.394 71.394 82.094 93.394 105.494 118.294 131.795 146.294 105.595 177.894 147.594 147.594 147.594 147.594 147.595	42	Current Period Rate Adjustments - Flat Fees		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%
46 Cumulative Prior Period Rate Adjustments - Yard Waste 61.3% 71.3% 82.0% 93.3% 195.4% 118.2% 131.7% 146.2% 101.5% 177.8% 146 Cumulative Prior Period Rate Adjustments - Flat Fees 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	43			61.3%		71.3%		82.0%		93.3%		105.4%		118.2%		131.7%		146.2%		161.5%		177.8%
46 Cumulative Prior Period Rate Adjustments - Trees 147.5% 147.5% 147.5% 147.5% 162.9% 179.3% 196.7% 215.2% 234.9% 1 Cumulative Prior Period Rate Adjustments Fare Service - South Service - S	44	Cumulative Prior Period Rate Adjustments - Commercial Waste		61.3%		71.3%		82.0%		93.3%		105.4%		118.2%		131.7%		146.2%		161.5%		177.8%
Calculative Prior Period Rate Adjustments - Flat Fees 0.0%	45	Cumulative Prior Period Rate Adjustments - Yard Waste		61.3%		71.3%		82.0%		93.3%		105.4%		118.2%		131.7%		146.2%		161.5%		177.8%
Calculated Prior Period Rate Adjustment Revenues: 48	46	Cumulative Prior Period Rate Adjustments - Tires		147.5%		147.5%		147.5%		147.5%		147.5%		162.9%		179.3%		196.7%		215.2%		234.9%
Tipping Fee Revenue - Commercial Waste 10,244,298 12,293,490 14,114,754 10,147,16 18,124,0632 2,280,234 2,286,234 2,286,234 2,286,9365 2,2089,965 3,095,548 3,005,748 3,005,759 3,00	47	Cumulative Prior Period Rate Adjustments - Flat Fees		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%
Tipping Fee Revenue - Commercial Waste 10,244,298 12,293,490 14,114,754 10,147,16 18,124,0632 2,280,234 2,286,234 2,286,234 2,286,9365 2,2089,965 3,095,548 3,005,748 3,005,759 3,00		Calculated Prior Period Rate Adjustment Revenues:																				
Tipping Fee Revenue - Yard Waste 104,752 121,931 140,181 159,567 180,162 202,039 225,279 249,968 276,194 304,054	48		\$	10,544,298	\$	12,293,490	\$	14,154,754	\$	16,134,716	\$	18,240,632	\$	20,480,349	\$	22,862,314	\$	25,395,612	\$	28,089,965	\$	30,955,488
Tipping Fee Revenue - Fires Tipping Fee Revenue - Prior Period Rate Adjustments Tipping Fee Revenue - Mark Tipping Fee Revenue - Tipping Fee	49	Tipping Fee Revenue - Commercial Waste		10,239,497		11,918,779		13,702,680		15,597,718		17,610,817		19,749,332		22,021,077		24,434,351		26,997,972		29,721,307
Tipping Fee Revenue - Fires Tipping Fee Revenue - Prior Period Rate Adjustments Tipping Fee Revenue - Mark Tipping Fee Revenue - Tipping Fee	50	Tipping Fee Revenue - Yard Waste		104,752		121,931		140,181		159,567		180,162		202,039		225,279		249,968		276,194		304,054
Handunload / Flat Fee Revenue - Prior Period Rate Adjustments S 21,603,892 S 25,049,546 S 28,712,961 S 32,607,348 S 36,746,957 S 41,221,841 S 45,978,225 S 51,033,868 S 6,407,709 S 62,119,651																						
Calculated Current Period Rate Adjustment Revenues: 54 Tipping Fee Revenue - MSW \$ 1,729,269 \$ 1,839,985 \$ 1,957,559 \$ 2,082,406 \$ 2,214,995 \$ 2,355,833 \$ 2,505,465 \$ 2,664,476 \$ 2,833,486 \$ 3,013,131 \$ 1,679,282 \$ 1,783,901 \$ 1,895,038 \$ 2,013,099 \$ 2,138,515 \$ 2,271,745 \$ 2,413,274 \$ 2,563,621 \$ 2,723,335 \$ 2,892,999 \$ 7,799,799 \$ 7,799,				-		-		-		-		-		_		-		_		-		_
Calculated Current Period Rate Adjustment Revenues: 54 Tipping Fee Revenue - MSW \$ 1,729,269 \$ 1,839,985 \$ 1,957,559 \$ 2,082,406 \$ 2,214,995 \$ 2,355,833 \$ 2,505,465 \$ 2,664,476 \$ 2,833,486 \$ 3,013,131 \$ 1,679,282 \$ 1,783,901 \$ 1,895,038 \$ 2,013,099 \$ 2,138,515 \$ 2,271,745 \$ 2,413,274 \$ 2,563,621 \$ 2,723,335 \$ 2,892,999 \$ 7,799,799 \$ 7,799,																						
Figuring Fee Revenue - Commercial Waste S	53	Total Disposal Rate / Fee Revenue - Prior Period Rate Adjustments	\$	21,603,892	\$	25,049,546	\$	28,712,961	\$	32,607,348	\$	36,746,957	\$	41,221,841	\$	45,978,225	\$	51,033,868	\$	56,407,709	\$	62,119,651
Standard Tipping Fee Revenue - Commercial Waste 1,679,282 1,783,901 1,895,038 2,013,099 2,138,515 2,271,745 2,413,274 2,563,621 2,723,335 2,892,999 2,138,715 2,138,715 2,271,745 2,4688 26,226 27,860 29,596 27,999 2,138,715 2,271,745 2,4688 2,026 27,860 29,596 2,138,715 2,271,745 2,4688 2,026 27,860 29,596 2,138,715 2,271,745 2,4688 2,026 27,860 29,596 2,138,715 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,271,745 2,4688 2,026 2,723,335 2,892,999 2,138,715 2,747,75 2,74		Calculated Current Period Rate Adjustment Revenues:																				
Total Disposal Rate Fee Revenue - Vard Waste 17,179 18,250 19,387 20,594 21,877 23,240 24,688 26,226 27,860 29,596 71pping Fee Revenue - Tires	54	Tipping Fee Revenue - MSW	\$	1,729,269	\$	1,839,985	\$	1,957,559	\$	2,082,406	\$	2,214,995	\$	2,355,833	\$	2,505,465	\$	2,664,476	\$	2,833,486	\$	3,013,131
Tipping Fee Revenue - Tires Handunload / Flat Fee Revenue - Current Period Rate Adjustments 3,425,731 3,642,136 3,871,983 4,116,099 4,450,163 4,730,251 5,027,810 5,343,963 5,679,905 6,036,882	55	Tipping Fee Revenue - Commercial Waste		1,679,282		1,783,901		1,895,038		2,013,099		2,138,515		2,271,745		2,413,274		2,563,621		2,723,335		2,892,999
Handunload / Flat Fee Revenue - Current Period Rate Adjustments \$ 3,425,731 \$ 3,642,136 \$ 3,871,983 \$ 4,116,099 \$ 4,450,163 \$ 4,730,251 \$ 5,027,810 \$ 5,343,963 \$ 5,679,905 \$ 6,036,882 Adjusted Rate Revenues: 59 Tipping Fee Revenue - MSW \$ 29,486,403 \$ 31,374,251 \$ 33,379,047 \$ 35,507,865 \$ 37,768,683 \$ 40,170,162 \$ 42,721,595 \$ 45,432,944 \$ 48,314,807 \$ 51,377,992 \$ 60 Tipping Fee Revenue - Commercial Waste \$ 28,634,047 \$ 30,417,949 \$ 32,312,987 \$ 34,326,086 \$ 36,464,601 \$ 38,736,346 \$ 41,149,620 \$ 43,713,241 \$ 46,436,576 \$ 49,329,575 \$ 1 Tipping Fee Revenue - Yard Waste \$ 292,931 \$ 311,181 \$ 330,567 \$ 351,162 \$ 373,039 \$ 396,279 \$ 420,968 \$ 447,194 \$ 475,054 \$ 504,650 \$ 1200,245 \$ 1,200,245 \$ 1,200,245 \$ 1,200,245 \$ 1,200,245 \$ 1,275,020 \$ 1,354,454 \$ 1,438,837 \$ 1,528,476 \$ 1,623,700 \$ 1,724,857 \$ 1,000,245 \$ 1,000,2	56	Tipping Fee Revenue - Yard Waste		17,179		18,250		19,387		20,594		21,877		23,240		24,688		26,226		27,860		29,596
Total Disposal Rate / Fee Revenue - Current Period Rate Adjustments \$ 3,425,731 \$ 3,642,136 \$ 3,871,983 \$ 4,116,099 \$ 4,450,163 \$ 4,730,251 \$ 5,027,810 \$ 5,343,963 \$ 5,679,905 \$ 6,036,882 Adjusted Rate Revenues: 59 Tipping Fee Revenue - MSW \$ 29,486,403 \$ 31,374,251 \$ 33,379,047 \$ 35,507,865 \$ 37,768,683 \$ 40,170,162 \$ 42,721,595 \$ 45,432,944 \$ 48,314,807 \$ 51,377,992 \$ 71,799,700 \$ 71,724,970 \$ 71,724,	57	Tipping Fee Revenue - Tires		_		_		_		-		74,775		79,434		84,382		89,640		95,224		101,157
Adjusted Rate Revenues: 59 Tipping Fee Revenue - MSW \$ 29,486,403 \$ 31,374,251 \$ 33,379,047 \$ 35,507,865 \$ 37,768,683 \$ 40,170,162 \$ 42,721,595 \$ 45,432,944 \$ 48,314,807 \$ 51,377,992 \$ 71,991 Fee Revenue - Commercial Waste 28,634,047 30,417,949 32,312,987 34,326,086 36,464,601 38,736,346 41,149,620 43,713,241 46,436,576 49,329,575		Handunload / Flat Fee Revenue		-		-		-		-		-		-		-		-		-		-
59 Tipping Fee Revenue - MSW \$ 29,486,403 \$ 31,374,251 \$ 33,379,047 \$ 35,507,865 \$ 37,686,833 \$ 40,170,162 \$ 42,721,595 \$ 45,432,944 \$ 48,314,807 \$ 51,377,992 60 Tipping Fee Revenue - Commercial Waste 28,634,047 30,417,949 32,312,987 34,326,086 36,464,601 38,736,346 41,149,620 43,713,241 46,436,576 49,292,756 61 Tipping Fee Revenue - Yard Waste 292,931 311,181 330,567 351,162 373,309 396,279 420,968 444,714 4450,6450 49,295,756 49,295,756 120,245 1200,245 1,200,245 4,506,124 4,506,124 4,506,124 4,506,124 4,506,124 4,506,124 4,506,124 <t< td=""><td>58</td><td>Total Disposal Rate / Fee Revenue - Current Period Rate Adjustments</td><td>\$</td><td>3,425,731</td><td>\$</td><td>3,642,136</td><td>\$</td><td>3,871,983</td><td>\$</td><td>4,116,099</td><td>\$</td><td>4,450,163</td><td>\$</td><td>4,730,251</td><td>\$</td><td>5,027,810</td><td>\$</td><td>5,343,963</td><td>\$</td><td>5,679,905</td><td>\$</td><td>6,036,882</td></t<>	58	Total Disposal Rate / Fee Revenue - Current Period Rate Adjustments	\$	3,425,731	\$	3,642,136	\$	3,871,983	\$	4,116,099	\$	4,450,163	\$	4,730,251	\$	5,027,810	\$	5,343,963	\$	5,679,905	\$	6,036,882
59 Tipping Fee Revenue - MSW \$ 29,486,403 \$ 31,374,251 \$ 33,379,047 \$ 35,507,865 \$ 37,686,833 \$ 40,170,162 \$ 42,721,595 \$ 45,432,944 \$ 48,314,807 \$ 51,377,992 60 Tipping Fee Revenue - Commercial Waste 28,634,047 30,417,949 32,312,987 34,326,086 36,464,601 38,736,346 41,149,620 43,713,241 46,436,576 49,292,756 61 Tipping Fee Revenue - Yard Waste 292,931 311,181 330,567 351,162 373,309 396,279 420,968 444,714 4450,6450 49,295,756 49,295,756 120,245 1200,245 1,200,245 4,506,124 4,506,124 4,506,124 4,506,124 4,506,124 4,506,124 4,506,124 <t< td=""><td></td><td>Adjusted Rate Revenues:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Adjusted Rate Revenues:																				
60 Tipping Fee Revenue - Commercial Waste 28,634,047 30,417,949 32,312,987 34,326,086 36,464,601 38,736,346 41,149,620 43,713,241 46,436,576 49,329,575 61 Tipping Fee Revenue - Yard Waste 292,931 311,181 330,567 351,162 373,039 396,279 420,968 447,194 475,054 504,650 71 pping Fee Revenue - Tires 1,200,245 1,200,245 1,200,245 1,200,245 1,200,245 1,275,020 1,354,454 1,438,837 1,528,476 1,623,700 1,724,857 Handunload / Flat Fee Revenue - See Revenue	59		\$	29,486,403	\$	31,374,251	\$	33,379,047	S	35,507,865	\$	37,768,683	\$	40,170,162	\$	42,721,595	\$	45,432,944	\$	48,314,807	\$	51,377,992
61 Tipping Fee Revenue - Yard Waste 292,931 311,181 330,567 351,162 373,039 396,279 420,968 447,194 475,054 504,650 1200,245 1200			-		-		-		-		-	, ,	-		-		-		-		-	
62 Tipping Fee Revenue - Tires 1,200,245 1,200																						
Handunload / Flat Fee Revenue 4,506,124 4,506,																						
63 Total Disposal Rate / Fee Revenue \$ 64,119,750 \$ 67,809,750 \$ 71,728,970 \$ 75,891,482 \$ 80,387,468 \$ 85,163,365 \$ 90,237,143 \$ 95,627,980 \$ 101,356,261 \$ 107,443,197 Revenue Surplus / (Deficiency) Under Proposed Rate Adjustments 64 Amount of Surplus / (Deficiency) 65 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -																						
Revenue Surplus / (Deficiency) Under Proposed Rate Adjustments																						
64 Amount of Surplus / (Deficiency) \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	63	Total Disposal Rate / Fee Revenue	\$	64,119,750	\$	67,809,750	\$	71,728,970	\$	75,891,482	\$	80,387,468	\$	85,163,365	\$	90,237,143	\$	95,627,980	\$	101,356,261	\$	107,443,197
		Revenue Surplus / (Deficiency) Under Proposed Rate Adjustments																				
65 As Percent of Existing Revenue 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	64		\$		\$		\$		\$	-	\$	-	\$	-	\$	-	\$	-	\$		\$	
	65	As Percent of Existing Revenue		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line						Fiscal	Year	Ending Septemb	er 30),				
No.	Description	2038	2039	2040	2041	2042		2043		2044	2045	2046	2047	2048
	Rate Adjustment Input (%):													
38	Current Period Rate Adjustments - MSW	6.2%	6.2%	6.2%	6.2%	6.2%		6.2%		4.5%	4.0%	3.5%	3.5%	3.5%
39	Current Period Rate Adjustments - Commercial Waste	6.2%	6.2%	6.2%	6.2%	6.2%		6.2%		4.5%	4.0%	3.5%	3.5%	3.5%
40	Current Period Rate Adjustments - Yard Waste	6.2%	6.2%	6.2%	6.2%	6.2%		6.2%		4.5%	4.0%	3.5%	3.5%	3.5%
41	Current Period Rate Adjustments - Tires	6.2%	6.2%	6.2%	6.2%	6.2%		6.2%		4.5%	4.0%	3.5%	3.5%	3.5%
42	Current Period Rate Adjustments - Flat Fees	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%
43	Cumulative Prior Period Rate Adjustments - MSW	195.1%	213.5%	233.0%	253.8%	275.8%		299.2%		324.1%	343.0%	360.5%	376.4%	392.8%
44	Cumulative Prior Period Rate Adjustments - Commercial Waste	195.1%	213.5%	233.0%	253.8%	275.8%		299.2%		324.1%	343.0%	360.5%	376.4%	392.8%
45	Cumulative Prior Period Rate Adjustments - Yard Waste	195.1%	213.5%	233.0%	253.8%	275.8%		299.2%		324.1%	343.0%	360.5%	376.4%	392.8%
46	Cumulative Prior Period Rate Adjustments - Tires	255.7%	277.9%	301.4%	326.4%	353.0%		381.2%		411.2%	433.9%	455.0%	474.2%	494.0%
47	Cumulative Prior Period Rate Adjustments - Flat Fees	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%		0.0%	0.0%	0.0%	0.0%	0.0%
	Calculated Prior Period Rate Adjustment Revenues:													
48	Tipping Fee Revenue - MSW	\$ 34,002,811	\$ 37,243,293	\$ 40,688,942	\$ 44,352,525	\$ 48,247,520	\$	52,388,196	\$	56,789,648	\$ 60,144,129	\$ 63,259,788	\$ 66,094,202	\$ 69,025,856
49	Tipping Fee Revenue - Commercial Waste	32,614,306	35,687,539	38,952,233	42,420,319	46,104,466		50,018,135		54,175,627	57,330,271	60,255,070	62,910,547	65,657,638
50	Tipping Fee Revenue - Yard Waste	333,650	365,089	398,488	433,967	471,656		511,694		554,226	586,498	616,419	643,585	671,689
51	Tipping Fee Revenue - Tires	1,239,958	1,347,416	1,461,569	1,582,834	1,711,654		1,848,500		1,993,870	2,104,175	2,206,444	2,299,295	2,395,350
52	Handunload / Flat Fee Revenue	-	-	-	-	-		-		-	-	-	-	-
53	Total Disposal Rate / Fee Revenue - Prior Period Rate Adjustments	\$ 68,190,725	\$ 74,643,337	\$ 81,501,232	\$ 88,789,645	\$ 96,535,297	\$	104,766,525	\$	113,513,371	\$ 120,165,074	\$ 126,337,721	\$ 131,947,630	\$ 137,750,533
	Calculated Current Period Rate Adjustment Revenues:													
54	Tipping Fee Revenue - MSW	\$ 3,204,071	\$ 3,407,015	\$ 3,622,712	\$ 3,851,957	\$ 4,095,587	\$	4,354,490	\$	3,306,859	\$ 3,068,352	\$ 2,787,896	\$ 2,886,110	\$ 2,987,652
55	Tipping Fee Revenue - Commercial Waste	3,073,233	3,264,695	3,468,085	3,684,147	3,913,669		4,157,491		3,154,645	2,924,799	2,655,477	2,747,091	2,841,865
56	Tipping Fee Revenue - Yard Waste	31,440	33,398	35,479	37,689	40,037		42,532		32,273	29,921	27,166	28,103	29,073
57	Tipping Fee Revenue - Tires	107,459	114,153	121,265	128,820	136,845		145,371		110,305	102,268	92,851	96,055	99,369
	Handunload / Flat Fee Revenue	-	-	-	-	-		-		-	-	-	-	-
58	Total Disposal Rate / Fee Revenue - Current Period Rate Adjustments	\$ 6,416,202	\$ 6,819,262	\$ 7,247,541	\$ 7,702,613	\$ 8,186,139	\$	8,699,883	\$	6,604,082	\$ 6,125,341	\$ 5,563,390	\$ 5,757,359	\$ 5,957,959
	Adjusted Rate Revenues:													
59	Tipping Fee Revenue - MSW	\$ 54,633,778	\$ 58,094,258	\$ 61,772,182	\$ 65,681,116	\$ 69,835,345	\$	74,249,991	\$	77,618,303	\$ 80,748,162	\$ 83,596,487	\$ 86,541,475	\$ 89,586,266
60	Tipping Fee Revenue - Commercial Waste	52,402,807	55,667,502	59,135,588	62,819,735	66,733,404		70,890,895		74,045,540	76,970,339	79,625,816	82,372,907	85,214,772
61	Tipping Fee Revenue - Yard Waste	536,089	569,488	604,967	642,656	682,694		725,226		757,498	787,419	814,585	842,689	871,761
62	Tipping Fee Revenue - Tires	1,832,315	1,946,468	2,067,733	2,196,553	2,333,399		2,478,769		2,589,074	2,691,343	2,784,194	2,880,249	2,979,618
	Handunload / Flat Fee Revenue	4,506,124	4,506,124	4,506,124	4,506,124	4,506,124		4,506,124		4,506,124	4,506,124	4,506,124	4,506,124	4,506,124
63	Total Disposal Rate / Fee Revenue	\$ 113,911,115	\$ 120,783,841	\$ 128,086,595	\$ 135,846,184	\$ 144,090,966	\$	152,851,006	\$	159,516,540	\$ 165,703,387	\$ 171,327,207	\$ 177,143,443	\$ 183,158,541
	Revenue Surplus / (Deficiency) Under Proposed Rate Adjustments		 											
64	Amount of Surplus / (Deficiency)	\$ -	\$ -	\$ -	\$ (4,607,047)	\$ (2,708,063)	\$		\$		\$ 	\$	\$	\$ -
65	As Percent of Existing Revenue	 0.00%	 0.00%	 0.00%	(3.60%)	(1.99%)		0.00%		0.00%	0.00%	 0.00%	0.00%	0.00%

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line						Fiscal Year Ending	September 30.				
No.	Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
	ENDING CASH BALANCE SUMMARY:										
1	DISPOSAL - OPERATING RESERVE	\$83,869,407	\$86,617,128	\$89,700,632	\$92,871,639	\$97,130,913	\$102,069,503	\$107,283,825	\$50,154,961	\$31,139,497	\$31,777,978
2	DISPOSAL - CAPITAL RESERVE	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
3	DISPOSAL - RATE STABILIZATION	75,538,575	76,019,720	77,358,109	101,001,875	146,641,132	199,245,162	260,103,967	310,156,056	302,559,095	275,413,436
4	DISPOSAL - LANDFILL CLOSURE FUND	0	0	3,353,383	6,621,601	9,071,232	11,512,338	14,937,375	18,454,095	22,064,438	25,770,354
5	DISPOSAL - CONVANTA RESERVE	5,231,100	4,474,800	3,718,500	2,962,200	2,205,900	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
6	TOTAL PROJECTED END OF YEAR BALANCES	\$189,639,082	\$192,111,648	\$199,130,624	\$228,457,316	\$280,049,177	\$339,827,003	\$409,325,167	\$405,765,112	\$382,763,031	\$359,961,768
_	DISPOSAL - OPERATING RESERVE	6102.052.205	602.070.407	607 717 100	000 700 (22	602.071.620	607 120 012	6102 040 502	6105 202 025	050 154 061	621 120 405
7	Beginning Balance	\$182,073,397	\$83,869,407	\$86,617,128	\$89,700,632	\$92,871,639	\$97,130,913	\$102,069,503	\$107,283,825	\$50,154,961	\$31,139,497
8	Transfers In - Rate Revenues for Reserve Balances	0	4,033,632	3,514,626	4,337,655	4,259,274	4,938,590 71,359,983	5,214,322 73,661,691	585,680	606,885	638,481
10	Transfers In - Rate Revenues for Operating Expenses Transfers In - Excess Funds in Covanta Reserve	80,135,908	74,920,827 756,300	73,172,385 756,300	68,440,983 756,300	69,052,185 756,300	205,900	/3,001,091	76,036,951 0	78,498,207 0	81,041,360 0
11	Transfers In - Excess Funds in Covanta Reserve Transfers In - Capital Fund	0	730,300	750,500	730,300	8,835,006	12,101,712	16,293,417	0	0	0
11	Transfers III - Capitai Fund	U	U	0	U	8,855,000	12,101,712	10,293,417	U	U	U
12	Transfers Out - Operating Expenses	80,135,908	74,920,827	73,172,385	68,440,983	69,052,185	71,359,983	73,661,691	76,036,951	78,498,207	81,041,360
13	Transfers Out - Deficiency	0	0	0	0	0	0	0	0	0	0
14	Transfers Out - Rate Stabilization (Excess Reserves)	98,203,990	2,042,210	1,187,423	1,922,947	9,591,306	12,307,612	16,293,417	57,714,544	19,622,349	0
15	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
16	Interest Income in Fund	1,329,700	852,400	881,600	912,900	950,000	996,000	1,046,800	787,200	406,500	314,600
17	Use of Interest Income to Fund Revenue Requirements	1,329,700	852,400	881,600	912,900	950,000	996,000	1,046,800	787,200	406,500	314,600
18	Ending Balance	\$83,869,407	\$86,617,128	\$89,700,632	\$92,871,639	\$97,130,913	\$102,069,503	\$107,283,825	\$50,154,961	\$31,139,497	\$31,777,978
	DISPOSAL - CAPITAL RESERVE										
19	Beginning Balance	\$44,018,140	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
20	Transfers In - Operations	16,121,667	17,477,234	18,540,310	19,335,201	19,971,406	20,238,112	20,429,817	20,334,092	20,640,158	20,950,676
21	Transfers In - Rate Stabilization	33,376,222	16,471,606	17,905,154	6,581,199	0	0	0	0	0	0
22	To Contact CIP	68,516,029	33,948,840	36,445,464	25.017.400	11 127 400	8,136,400	4,136,400	20,334,092	20,640,158	20,950,676
22	Transfers Out - CIP Transfers Out - Operating Reserves (Excess \$25m Reserve)	68,516,029 0	33,948,840	36,445,464	25,916,400 0	11,136,400 8,835,006	8,136,400 12,101,712	4,136,400 16,293,417	20,334,092	20,640,158	20,950,676
23	Transiers Out - Operating Reserves (Excess \$25iii Reserve)	U	Ü	Ü	U	8,833,000	12,101,/12	10,293,417	Ü	Ü	0
24	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
25	Interest Income in Fund	345,100	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
26	Use of Interest Income to Fund Revenue Requirements	345,100	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
27	Ending Balance	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
21	Enoning Balance	\$25,000,000	\$23,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$23,000,000	\$25,000,000	\$25,000,000	\$23,000,000	\$25,000,000
	Capital Reserve Target:										
28	Minimum Balance	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
29	Excess Reserves Above / (Below) Target	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	DISPOSAL - RATE STABILIZATION										
30	Beginning Balance	\$0	\$75,538,575	\$76,019,720	\$77,358,109	\$101,001,875	\$146,641,132	\$199,245,162	\$260,103,967	\$310,156,056	\$302,559,095
31	Transfers In - Operations	10,710,807	14,910,541	18,056,119	28,302,019	36,047,950	40,296,419	44,565,387	0	0	0
32	Transfers In - Operating Reserve	98,203,990	2,042,210	1,187,423	1,922,947	9,591,306	12,307,612	16,293,417	57,714,544	19,622,349	0
33 34	Transfers Out - Operations Transfers Out - Capital Reserves	0 33,376,222	0 16,471,606	0 17,905,154	0 6,581,199	0	0	0	7,662,455	27,219,310 0	27,145,659
34	Transfers Out - Capital Reserves	33,370,222	10,4/1,000	17,905,154	0,581,199	U	U	U	0	U	U
35	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
36	Interest Income in Fund	377,700	757,800	766,900	891,800	1,238,200	1,729,400	2,296,700	2,851,300	3,063,600	2,889,900
37	Use of Interest Income to Fund Revenue Requirements	377,700	757,800	766,900	891,800	1,238,200	1,729,400	2,296,700	2,851,300	3,063,600	2,889,900
38	Ending Balance	\$75,538,575	\$76,019,720	\$77,358,109	\$101,001,875	\$146,641,132	\$199,245,162	\$260,103,967	\$310,156,056	\$302,559,095	\$275,413,436
30	Enang Sumo	دا د,٥دد,د، ب	970,017,720	911,530,107	9101,001,073	9170,041,132	9177,243,102	9200,103,707	9510,150,050	9302,337,073	92,717,710
	DISPOSAL - LANDFILL CLOSURE FUND										
39	Beginning Balance	\$0	\$0	\$0	\$3,353,383	\$6,621,601	\$9,071,232	\$11,512,338	\$14,937,375	\$18,454,095	\$22,064,438
40	Transfers In - Annual Operations / Rate Revenues	0	0	3,336,683	3,218,618	2,371,530	2,338,706	3,293,438	3,350,620	3,408,744	3,467,916
41	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
42	Interest Rate Interest Income in Fund	1.00%	0	16,700	49,600	78,100	102,400	131,600	166,100	201,600	238,000
43	Use of Interest Income to Fund Revenue Requirements	0	0	0	0	0	0	0	0	0	0
	•										
44	Ending Balance	\$0	\$0	\$3,353,383	\$6,621,601	\$9,071,232	\$11,512,338	\$14,937,375	\$18,454,095	\$22,064,438	\$25,770,354

Pinellas County, Florida

2018 Solid Waste Financial Forecast and Rate Model

Line						Fiscal Year Ending	Sentember 30.				
No.	Description	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	ENDING CASH BALANCE SUMMARY:										
1	DISPOSAL - OPERATING RESERVE	\$32,442,781	\$33,130,146	\$33,838,621	\$34,571,689	\$35,336,009	\$36,125,352	\$36,939,748	\$37,787,841	\$38,604,522	\$39,448,655
2	DISPOSAL - CAPITAL RESERVE	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000	25,000,000
3	DISPOSAL - RATE STABILIZATION	248,435,694	221,747,685	195,488,648	169,794,606	144,863,322	120,879,823	98,042,854	76,529,256	56,877,508	39,288,345
4	DISPOSAL - LANDFILL CLOSURE FUND	29,573,822	33,476,835	37,481,462	41,589,790	45,803,968	50,126,182	54,558,666	59,103,755	63,763,826	68,541,260
5	DISPOSAL - CONVANTA RESERVE	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
6	TOTAL PROJECTED END OF YEAR BALANCES	\$337,452,296	\$315,354,666	\$293,808,732	\$272,956,085	\$253,003,300	\$234,131,357	\$216,541,268	\$200,420,852	\$186,245,856	\$174,278,260
	DISPOSAL - OPERATING RESERVE										
7	Beginning Balance	\$31,777,978	\$32,442,781	\$33,130,146	\$33,838,621	\$34,571,689	\$35,336,009	\$36,125,352	\$36,939,748	\$37,787,841	\$38,604,522
8	Transfers In - Rate Revenues for Reserve Balances	664,802	687,365	708,475	733,068	764,321	789,343	814,396	848,092	816,682	844,133
9	Transfers In - Rate Revenues for Operating Expenses	83,694,100	86,441,209	89,276,807	92,214,970	95,282,339	98,453,204	101,727,253	105,139,112	108,424,370	111,821,657
10	Transfers In - Excess Funds in Covanta Reserve	0	0	0	0	0	0	0	0	0	0
11	Transfers In - Capital Fund	0	0	0	0	0	0	0	0	0	0
12	Transfers Out - Operating Expenses	83,694,100	86,441,209	89,276,807	92,214,970	95,282,339	98,453,204	101,727,253	105,139,112	108,424,370	111,821,657
13	Transfers Out - Deficiency	0	0	0	0	0	0	0	0	0	0
14	Transfers Out - Rate Stabilization (Excess Reserves)	0	0	0	0	0	0	0	0	0	0
15	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
16	Interest Income in Fund	321,100	327,900	334,800	342,100	349,500	357,300	365,300	373,600	382,000	390,300
17	Use of Interest Income to Fund Revenue Requirements	321,100	327,900	334,800	342,100	349,500	357,300	365,300	373,600	382,000	390,300
18	Ending Balance	\$32,442,781	\$33,130,146	\$33,838,621	\$34,571,689	\$35,336,009	\$36,125,352	\$36,939,748	\$37,787,841	\$38,604,522	\$39,448,655
	DICROCAL CARITAL RECEDUE										
19	DISPOSAL - CAPITAL RESERVE Beginning Balance	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
20	Transfers In - Operations	21,265,713	21,585,334	21,909,605	22,238,595	22,572,371	22,911,004	23,254,565	23,603,124	23,956,755	24,315,532
21	Transfers In - Rate Stabilization	0	0	0	0	0	0	0	0	0	0
22 23	Transfers Out - CIP Transfers Out - Operating Reserves (Excess \$25m Reserve)	21,265,713 0	21,585,334 0	21,909,605 0	22,238,595 0	22,572,371 0	22,911,004 0	23,254,565 0	23,603,124 0	23,956,755 0	24,315,532 0
24	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
25	Interest Income in Fund	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
26	Use of Interest Income to Fund Revenue Requirements	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
27	Ending Balance	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
20	Capital Reserve Target:	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
28 29	Minimum Balance Excess Reserves Above / (Below) Target	\$23,000,000	\$23,000,000	\$25,000,000	\$23,000,000	\$25,000,000	\$23,000,000	\$23,000,000	\$23,000,000	\$23,000,000	\$23,000,000
	· · · -										
	DISPOSAL - RATE STABILIZATION										
30	Beginning Balance	\$275,413,436	\$248,435,694	\$221,747,685	\$195,488,648	\$169,794,606	\$144,863,322	\$120,879,823	\$98,042,854	\$76,529,256	\$56,877,508
31 32	Transfers In - Operations Transfers In - Operating Reserve	0	0	0	0	0	0	0	0	0	0
32	Transfers in - Operating Reserve	U	U	U	U	Ü	U	U	U	Ü	U
33	Transfers Out - Operations	26,977,742	26,688,009	26,259,037	25,694,043	24,931,283	23,983,500	22,836,969	21,513,598	19,651,748	17,589,163
34	Transfers Out - Capital Reserves	0	0	0	0	0	0	0	0	0	0
35	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
36	Interest Income in Fund	2,619,200	2,350,900	2,086,200	1,826,400	1,573,300	1,328,700	1,094,600	872,900	667,000	480,800
37	Use of Interest Income to Fund Revenue Requirements	2,619,200	2,350,900	2,086,200	1,826,400	1,573,300	1,328,700	1,094,600	872,900	667,000	480,800
38	Ending Balance	\$248,435,694	\$221,747,685	\$195,488,648	\$169,794,606	\$144,863,322	\$120,879,823	\$98,042,854	\$76,529,256	\$56,877,508	\$39,288,345
30	Znoing Salance	9270,933,079	9221,747,003	9172,400,040	9102,724,000	ψ177,003,322	9120,077,023	970,074,037	910,527,230	950,077,500	ر د ر,200,7 ده
	DISPOSAL - LANDFILL CLOSURE FUND										
39	Beginning Balance	\$25,770,354	\$29,573,822	\$33,476,835	\$37,481,462	\$41,589,790	\$45,803,968	\$50,126,182	\$54,558,666	\$59,103,755	\$63,763,826
40	Transfers In - Annual Operations / Rate Revenues	3,528,167	3,589,314	3,651,627	3,714,928	3,779,378	3,844,913	3,911,684	3,979,590	4,048,770	4,119,234
41	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
42	Interest Income in Fund	275,300	313,700	353,000	393,400	434,800	477,300	520,800	565,500	611,300	658,200
43	Use of Interest Income to Fund Revenue Requirements	0	0	0	0	0	0	0	0	0	0
44	Ending Balance	\$29,573,822	\$33,476,835	\$37,481,462	\$41,589,790	\$45,803,968	\$50,126,182	\$54,558,666	\$59,103,755	\$63,763,826	\$68,541,260
.,		<i>\$27,013,022</i>	955,170,055	937,101,102	911,505,750	\$15,005,700	930,120,102	95 1,550,000	907,100,100	ψου,,,ου,ο <u>υ</u>	900,5 11,200

Pinellas County, Florida

2018 Solid Waste Financial Forecast and Rate Model

Line						E:1	V Fdi Cth	. 20				
No.	Description	2038	2039	2040	2041	2042	Year Ending September 2043	2044	2045	2046	2047	2048
1 2 3	ENDING CASH BALANCE SUMMARY: DISPOSAL - OPERATING RESERVE DISPOSAL - CAPITAL RESERVE DISPOSAL - RATE STABILIZATION	\$40,318,954 25,000,000 24,052,916	\$41,227,477 25,000,000 11,426,547	\$42,164,538 25,000,000 1,753,891	\$38,524,447 25,000,000 0	\$36,823,172 25,000,000 0	\$37,863,862 25,000,000 1,359,394	\$38,938,967 25,000,000 4,573,580	\$40,056,278 25,000,000 8,992,098	\$41,211,343 25,000,000 13,903,493	\$42,404,219 25,000,000 19,343,315	\$43,646,657 25,000,000 25,294,566
4 5	DISPOSAL - LANDFILL CLOSURE FUND DISPOSAL - CONVANTA RESERVE	73,438,513 2,000,000	78,458,119 2,000,000	83,602,638 2,000,000	88,874,670 2,000,000	94,276,799 2,000,000	99,811,826 2,000,000	105,482,456 2,000,000	111,291,498 2,000,000	117,241,729 2,000,000	123,336,147 2,000,000	129,577,595 2,000,000
6	TOTAL PROJECTED END OF YEAR BALANCES	\$164,810,383	\$158,112,143	\$154,521,067	\$154,399,117	\$158,099,971	\$166,035,082	\$175,995,004	\$187,339,874	\$199,356,565	\$212,083,681	\$225,518,818
	DISPOSAL - OPERATING RESERVE		=======================================	<u> </u>			-	<u> </u>				
7	Beginning Balance	\$39,448,655	\$40,318,954	\$41,227,477	\$42,164,538	\$38,524,447	\$36,823,172	\$37,863,862	\$38,938,967	\$40,056,278	\$41,211,343	\$42,404,219
8	Transfers In - Rate Revenues for Reserve Balances Transfers In - Rate Revenues for Operating Expenses	870,299 115,325,778	908,523 118,985,599	937,061 122,761,848	966,955 126,660,021	1,006,788 130,720,468	1,040,691 134,919,184	1,075,105 139,258,309	1,117,310 143,769,478	1,155,065 148,434,869	1,192,876 153,254,710	1,242,438 158,276,664
10	Transfers In - Rate Revenues for Operating Expenses Transfers In - Excess Funds in Covanta Reserve	113,323,778	118,985,599	122,761,848	120,000,021	130,720,468	0	139,238,309	143,709,478	0	133,234,710	138,270,004
11	Transfers In - Capital Fund	0	0	0	0	0	0	0	0	0	0	0
12	Transfers Out - Operating Expenses	115,325,778	118,985,599	122,761,848	126,660,021	130,720,468	134,919,184	139,258,309	143,769,478	148,434,869	153,254,710	158,276,664
13 14	Transfers Out - Deficiency Transfers Out - Rate Stabilization (Excess Reserves)	0	0	0	4,607,047 0	2,708,063 0	0	0	0	0	0	0
			•	-						-	-	v
15 16	Interest Rate Interest Income in Fund	1.00% 398,800	1.00% 407,700	1.00% 417,000	1.00% 403,400	1.00% 376,700	1.00% 373,400	1.00% 384,000	1.00% 395,000	1.00% 406,300	1.00% 418,100	1.00% 430,300
17	Use of Interest Income to Fund Revenue Requirements	398,800	407,700	417,000	403,400	376,700	373,400	384,000	395,000	406,300	418,100	430,300
18	Ending Balance	\$40,318,954	\$41,227,477	\$42,164,538	\$38,524,447	\$36,823,172	\$37,863,862	\$38,938,967	\$40,056,278	\$41,211,343	\$42,404,219	\$43,646,657
	DISPOSAL - CAPITAL RESERVE											
19	Beginning Balance	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
20 21	Transfers In - Operations Transfers In - Rate Stabilization	24,679,529	25,048,822	25,423,489	25,803,607	26,189,256	26,580,517	26,977,471	27,380,200	27,788,789	28,203,324	28,623,890
22 23	Transfers Out - CIP Transfers Out - Operating Reserves (Excess \$25m Reserve)	24,679,529 0	25,048,822 0	25,423,489 0	25,803,607 0	26,189,256 0	26,580,517 0	26,977,471 0	27,380,200 0	27,788,789 0	28,203,324 0	28,623,890 0
24	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
25 26	Interest Income in Fund	250,000 250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
20	Use of Interest Income to Fund Revenue Requirements	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
27	Ending Balance	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000	\$25,000,000
20	Capital Reserve Target:	***************************************	625 000 000	625 000 000	625 000 000	625,000,000	#25 000 000	625 000 000	625 000 000	625,000,000	625,000,000	625 000 000
28 29	Minimum Balance Excess Reserves Above / (Below) Target	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0	\$25,000,000 \$0
	DISPOSAL - RATE STABILIZATION											
30	Beginning Balance	\$39,288,345	\$24,052,916	\$11,426,547	\$1,753,891	\$0	\$0	\$1,359,394	\$4,573,580	\$8,992,098	\$13,903,493	\$19,343,315
31 32	Transfers In - Operations Transfers In - Operating Reserve	0	0	0	0	0	1,359,494	3,214,186 0	4,418,518 0	4,911,395 0	5,439,822	5,951,251
33 34	Transfers Out - Operations Transfers Out - Capital Reserves	15,235,428 0	12,626,370 0	9,672,655 0	1,753,891 0	0	100 0	0	0	0	0	0
35	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
36	Interest Income in Fund	316,700	177,400	65,900	8,800	0	6,800	29,700	67,800	114,500	166,200	223,200
37	Use of Interest Income to Fund Revenue Requirements	316,700	177,400	65,900	8,800	0	6,800	29,700	67,800	114,500	166,200	223,200
38	Ending Balance	\$24,052,916	\$11,426,547	\$1,753,891	\$0	\$0	\$1,359,394	\$4,573,580	\$8,992,098	\$13,903,493	\$19,343,315	\$25,294,566
	DISPOSAL - LANDFILL CLOSURE FUND											
39 40	Beginning Balance	\$68,541,260 4,190,853	\$73,438,513 4,263,906	\$78,458,119 4,338,218	\$83,602,638 4,413,932	\$88,874,670 4,490,929	\$94,276,799 4,569,427	\$99,811,826 4,649,230	\$105,482,456 4,730,542	\$111,291,498 4,813,231	\$117,241,729 4,897,517	\$123,336,147 4,983,148
40	Transfers In - Annual Operations / Rate Revenues	4,190,853	4,203,906	4,558,218	4,413,932	4,490,929	4,309,42/	4,049,230	4,/30,342	4,813,231	4,897,317	4,985,148
41 42	Interest Rate Interest Income in Fund	1.00%	1.00%	1.00%	1.00%	1.00% 911.200	1.00%	1.00%	1.00%	1.00% 1,137,000	1.00%	1.00% 1,258,300
42	Use of Interest Income to Fund Revenue Requirements	706,400 0	755,700 0	806,300 0	858,100 0	911,200 0	965,600 0	1,021,400 0	1,078,500 0	1,137,000	1,196,900 0	1,258,300
		672 120 515	670 450 110	\$83,602,638	600 074 (70	604 227 207	600 011 027	6105 102 154	¢111 201 400	6117.041.700	6122 224 147	6120 577 505
44	Ending Balance	\$73,438,513	\$78,458,119	\$83,602,638	\$88,874,670	\$94,276,799	\$99,811,826	\$105,482,456	\$111,291,498	\$117,241,729	\$123,336,147	\$129,577,595

Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Line		Fiscal Year Ending September 30,											
No.	Description	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027		
	DISPOSAL - CONVANTA RESERVE												
45	Beginning Balance	\$5,231,100	\$5,231,100	\$4,474,800	\$3,718,500	\$2,962,200	\$2,205,900	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		
	Deg.iiiiiig Dataiice	95,251,100	95,251,100	\$ 1, 17 1,000	93,710,300	<i>\$2,702,200</i>	02,200,700	\$2,000,000	\$2,000,000	\$2,000,000	32,000,000		
46	Transfers Out - Operating Reserves	0	756,300	756,300	756,300	756,300	205,900	0	0	0	0		
47	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%		
48	Interest Income in Fund	52,300	48,500	41,000	33,400	25,800	21,000	20,000	20,000	20,000	20,000		
49	Use of Interest Income to Fund Revenue Requirements	52,300	48,500	41,000	33,400	25,800	21,000	20,000	20,000	20,000	20,000		
50	Ending Balance	\$5,231,100	\$4,474,800	\$3,718,500	\$2,962,200	\$2,205,900	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		
51	Required Contractual Balance	\$5,231,100	\$4,474,800	\$3,718,500	\$2,962,200	\$2,205,900	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		
	INTEREST INCOME BY FUND												
52	Disposal - Operating Reserve	\$1,329,700	\$852,400	\$881,600	\$912,900	\$950,000	\$996,000	\$1,046,800	\$787,200	\$406,500	\$314,600		
53	Disposal - Capital Reserve	345,100	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000		
54	Disposal - Rate Stabilization	377,700	757,800	766,900	891,800	1,238,200	1,729,400	2,296,700	2,851,300	3,063,600	2,889,900		
55	Disposal - Convanta Reserve	52,300	48,500	41,000	33,400	25,800	21,000	20,000	20,000	20,000	20,000		
56	Disposal - Landfill Closure Fund	0	0	16,700	49,600	78,100	102,400	131,600	166,100	201,600	238,000		
57	Total Interest Income	\$2,104,800	\$1,908,700	\$1,956,200	\$2,137,700	\$2,542,100	\$3,098,800	\$3,745,100	\$4,074,600	\$3,941,700	\$3,712,500		

Pinellas County, Florida

2018 Solid Waste Financial Forecast and Rate Model

Line		Fiscal Year Ending September 30,											
No.	Description	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037		
	DISPOSAL - CONVANTA RESERVE												
45	Beginning Balance	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		
			. , ,	. ,,	. ,,	. ,,	. ,,	. ,,		. ,,	. ,,		
46	Transfers Out - Operating Reserves	0	0	0	0	0	0	0	0	0	0		
47	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%		
48	Interest Income in Fund	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000		
49	Use of Interest Income to Fund Revenue Requirements	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000		
50	Ending Balance	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		
	=												
51	Required Contractual Balance	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000		
	INTEREST INCOME BY FUND												
52	Disposal - Operating Reserve	\$321,100	\$327,900	\$334,800	\$342,100	\$349,500	\$357,300	\$365,300	\$373,600	\$382,000	\$390,300		
		250,000								250,000			
53	Disposal - Capital Reserve		250,000	250,000	250,000	250,000	250,000	250,000	250,000		250,000		
54	Disposal - Rate Stabilization	2,619,200	2,350,900	2,086,200	1,826,400	1,573,300	1,328,700	1,094,600	872,900	667,000	480,800		
55	Disposal - Convanta Reserve	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000		
56	Disposal - Landfill Closure Fund	275,300	313,700	353,000	393,400	434,800	477,300	520,800	565,500	611,300	658,200		
57	Total Interest Income	\$3,485,600	\$3,262,500	\$3,044,000	\$2,831,900	\$2,627,600	\$2,433,300	\$2,250,700	\$2,082,000	\$1,930,300	\$1,799,300		
٥,	=	22,.02,000	JU,=32,000	44,571,000	- ,,,,,,	52,527,000	 ,,	\$=,=00,700	42,002,000	21,750,500	44,777,000		

Pinellas County, Florida

2018 Solid Waste Financial Forecast and Rate Model

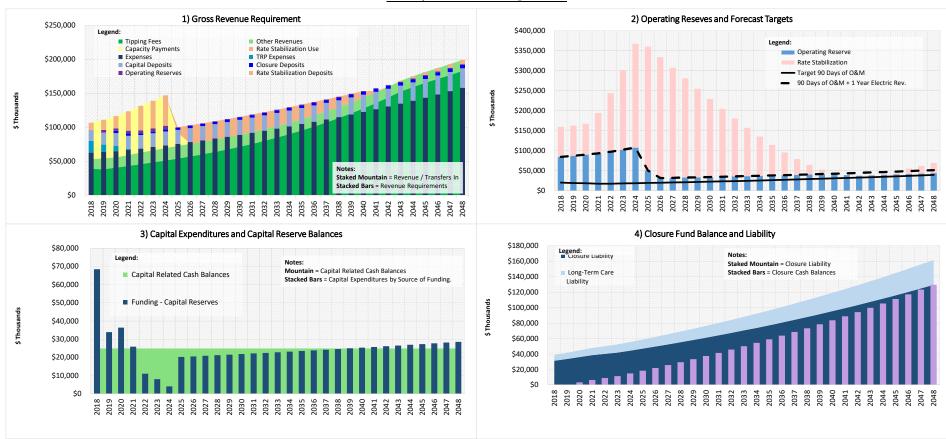
Line		Fiscal Year Ending September 30,										
No.	Description	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048
	DISPOSAL - CONVANTA RESERVE											
45	Beginning Balance	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
46	Transfers Out - Operating Reserves	0	0	0	0	0	0	0	0	0	0	0
47	Interest Rate	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%	1.00%
48	Interest Income in Fund	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
49	Use of Interest Income to Fund Revenue Requirements	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
50	Ending Balance	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
51	Required Contractual Balance	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
	INTEREST INCOME BY FUND											
52	Disposal - Operating Reserve	\$398,800	\$407,700	\$417,000	\$403,400	\$376,700	\$373,400	\$384,000	\$395,000	\$406,300	\$418,100	\$430,300
53	Disposal - Capital Reserve	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
54	Disposal - Rate Stabilization	316,700	177,400	65,900	8,800	0	6,800	29,700	67,800	114,500	166,200	223,200
55	Disposal - Convanta Reserve	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
56	Disposal - Landfill Closure Fund	706,400	755,700	806,300	858,100	911,200	965,600	1,021,400	1,078,500	1,137,000	1,196,900	1,258,300
57	Total Interest Income	\$1,691,900	\$1,610,800	\$1,559,200	\$1,540,300	\$1,557,900	\$1,615,800	\$1,705,100	\$1,811,300	\$1,927,800	\$2,051,200	\$2,181,800

Appendix F

Pinellas County, Florida

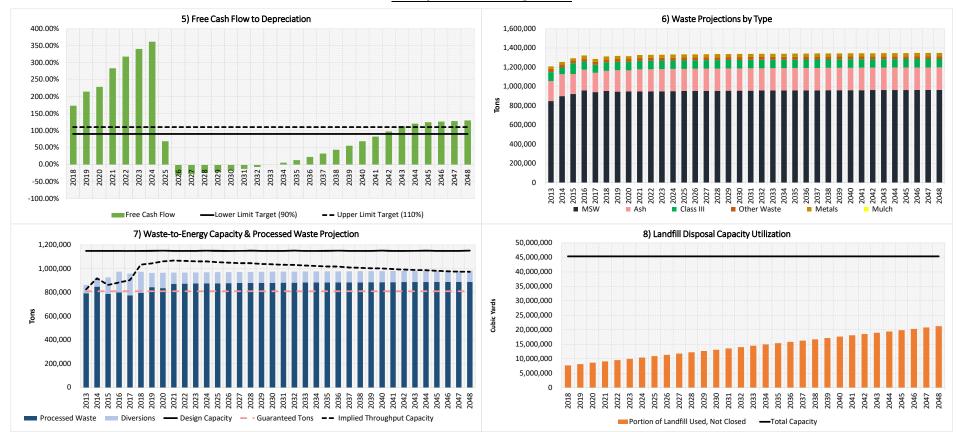
2018 Solid Waste Financial Forecast and Rate Model

Solid Waste System Financial Overview and Management Dashboard



Appendix F Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model

Solid Waste System Financial Overview and Management Dashboard



Appendix F Pinellas County, Florida 2018 Solid Waste Financial Forecast and Rate Model



