COMMISSION FINANCE COMMITTEE MEETING MINUTES April 12, 2019

PRESENT: Commissioners Elofson, Lakdawala, Lynch, Rodriguez and Templeman

No. Topic

1. PROPOSED FISCAL YEAR 2020 ANNUAL BUDGET REVIEW

Commissioners Elofson, Lakdawala, Lynch, Rodriguez, and Templeman, along with staff, reviewed the proposed Fiscal Year 2020 annual budget. The Finance Committee will present its report to the full Commission at the April 23, 2019 meeting. The entire budget package will be presented to the Commission at the May Commission meeting.

Attachment: Presentation

Public Comment: None

Next Committee Meeting Date: TBD

Meeting Adjourned: 10:50 am

SUBMITTED:

APPROVED:

ennifer L. Cascid

Secretary

Stephen Rodriguez
Committee Chair



FY2020 Finance Committee April 12, 2019

Agenda

- Review Financial Forecast
- Rates
 - Wastewater
 - Small Communities
 - Surcharge
 - Hauled Waste
 - Facility Charges
- Cash Spend Down Plan
- WIFIA



Financial Forecast

Financial Forecast Concepts

REVENUES

Projected rate increases unchanged

EXPENSES

- Budget process guided by forecast
 - Keep spending within targets



Debt Service Coverage Ratio

Debt Service Coverage Ratio

REVENUES - EXPENSES

Principal + Interest

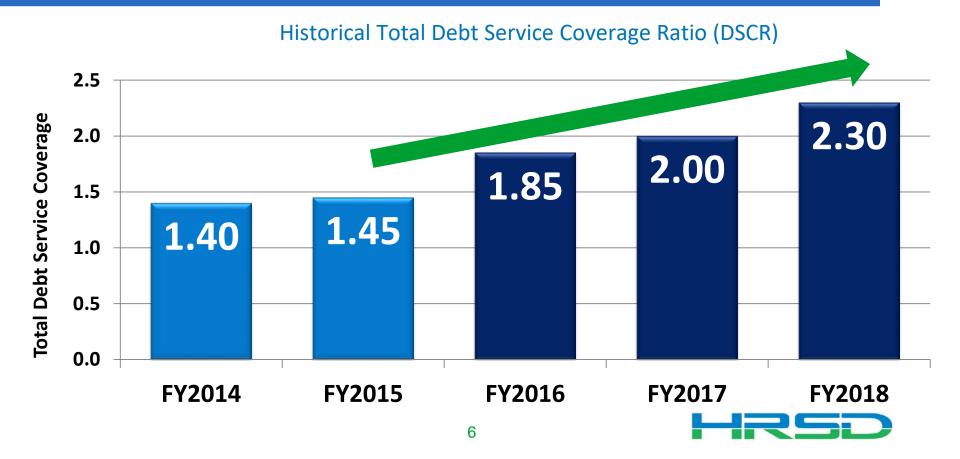
- How much income will you generate to pay Debt Service (principal + interest)?
- Will bond investors get paid back?
- Higher is better

2.0 means that you have **two times more money available** to pay for your loan payment

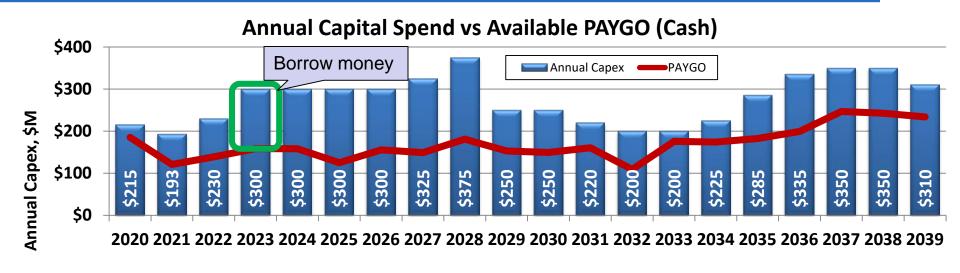
Target = 2.0xPolicy = 1.4x

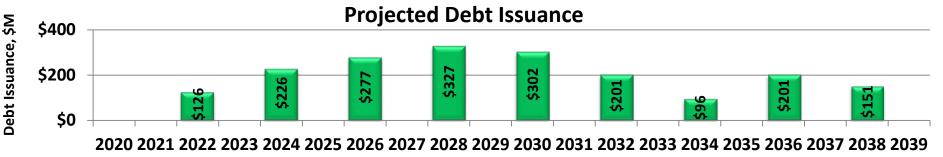


Strategy Execution

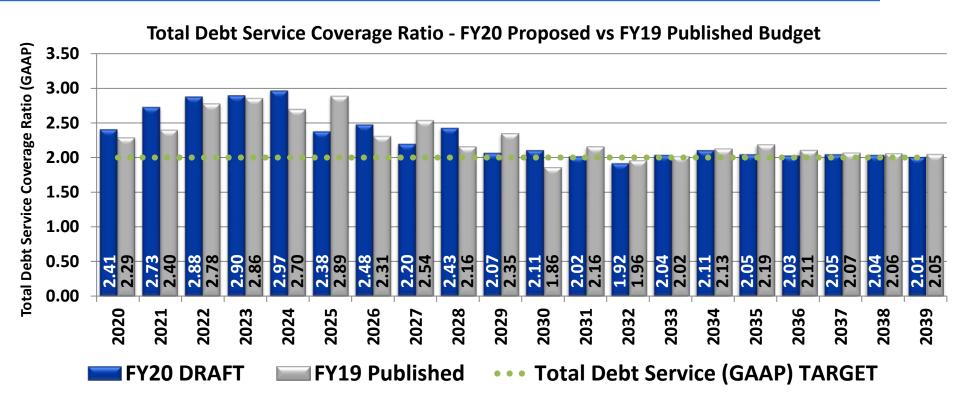


How the model works



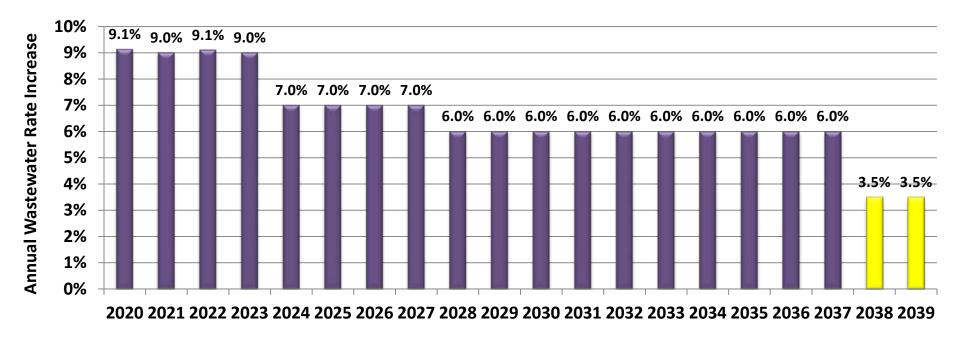


20-Year Financial Forecast – Target 2.0x





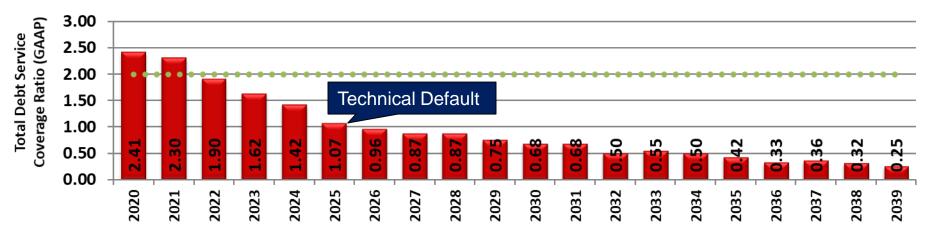
Projected Wastewater Rate Increases





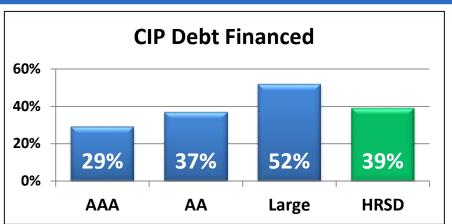
No Rate Increase Scenario – 49% increase needed in FY2024

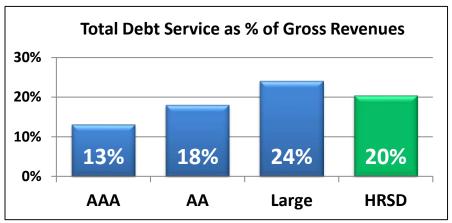
- Assume no rate increases for years 2020-2023
- 49% rate increase needed in FY2024 to avoid Bond Covenant violation
- Highlights importance of a long-term forecast

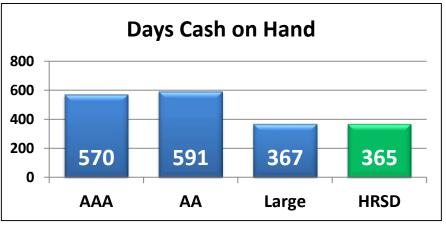


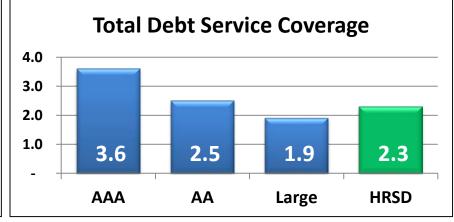


Financial Forecast Metrics compared to 2019 Fitch Medians









Proposed Rate Increase

- FY20 9.1% rate increase
 - \$5.86 per ccf (up from \$5.37 per ccf)
 - Avg monthly bill = \$32.82 @ 5.6 ccf
 - Up @\$2.75 from last year
 - About \$0.09 per day



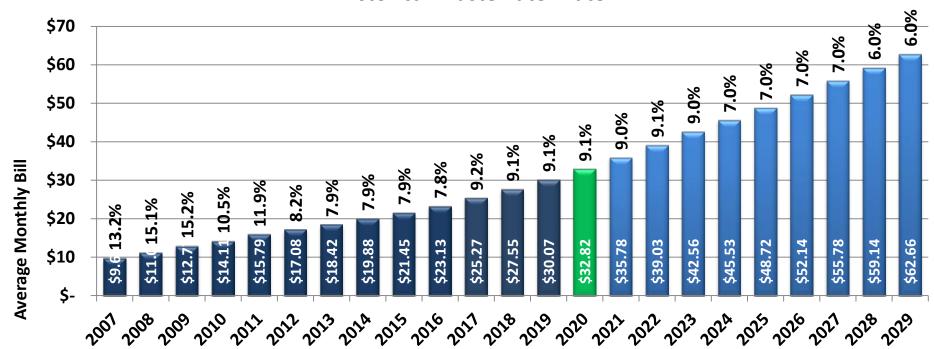
Historical and Projected Rate Increases





Average Monthly Bill @ 5.6 ccf

Historical Wastewater Rate



FY20 Budget

FY20 Budget At-A-Glance

• Revenue = \$338M

Operating - \$165M

Debt Service - \$64M

PAYGO (Cash for CIP) = \$109M

- 10 year CIP = \$2.8B
- 20 year CIP = \$5.5B
- Debt Outstanding = \$891M



Revenues

	FY-2020	Adopted FY-2019	Increase/ (Decrease)	Percent Change	_
Operating Revenues					Municipal Assistance
Wastewater Treatment Charges	\$ 323,395,000 \$	297,062,000	\$ 26,333,000	9%	Widi licipal / (33/3tarrec
Miscellaneous	1,255,000	1,405,000	(150,000)	(11%)	
Total Operating Revenue	324,650,000	298,467,000	26,183,000	9%	
Non-Operating Revenues					
Wastewater Facility Charges	6,160,000	6,075,000	85,000	1%	
Investment Earnings	4,000,000	2,500,000	1,500,000	60%	IPA Agreement Revenue
Build America Bond Subsidy	2,400,000	2,400,000	-	0% l	
Other	595,000	820,000	(225,000)	(27%)	
Total Non-Operating Revenues	13,155,000	11,795,000	1,360,000	12%	
Total Revenues	\$ 337,805,000 \$	310,262,000	\$ 27,543,000	9%	



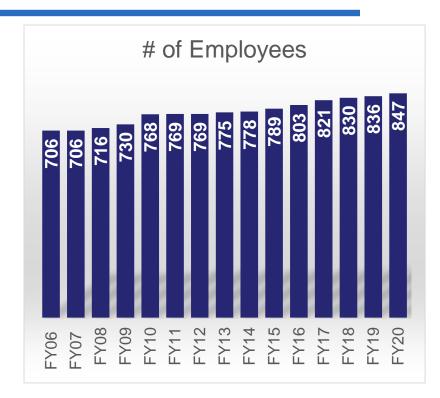
Expenses

		FY-2020		Adopted FY-2019		Increase/ (Decrease)		Percent Change
Operating Appropria	tions							
General Managemen	t	\$	460,252	\$	624,583	\$	(164,331)	(26%)
Communications			444,116		423,764		20,352	5%
Finance			14,566,681		13,884,533		682,148	5%
Information Technology	ogy		15,854,415		15,089,692		764,723	5%
Talent Management		2,515,281			2,293,202		222,079	10%
Operations		•	103,821,084		98,842,274		4,978,810	5%
Engineering	Forecast @ \$165.8M		7,689,863		7,903,702		(213,839)	(3%)
Water Quality	Forecast @ \$105.6M		14,778,035		14,913,423		(135,388)	(1%)
General Expenses			5,529,093		5,761,766		(232,673)	(4%)
Total Operating Appropriations		165,658,820		159,736,939		5,921,881		4%
Appropriations for D	ebt Service and Transfers							
Debt Service			63,544,840		62,811,000		733,840	1%
Transfer to Capital In	nprovement Program (CIP)	108,341,340		87,475,061		20,866,279		24%
Transfer to General F	Reserve	-		-		-		0%
Transfer to Risk Management Reserve			260,000	239,000		21,000		9%
Total Appropriations for	or Debt Service and Transfers		172,146,180		150,525,061		21,621,119	14%
Total Appropriations		\$ 3	337,805,000	\$	310,262,000	\$	27,543,000	9%



Proposed New Positions, Total FTEs = 836 + 11 = 847 (+1.3%)

- Information Technology = 5
 - Chief Information Security Officer
 - IT Systems Security Manager
 - Senior Systems Engineer
 - Senior Programmer Analyst (2)
- Operations = 1
 - Electrical & Instrumentation Specialist
- Engineering = 1
 - Data Analyst
- Water Quality = 4
 - Tech Services Division Investigator
 - Tech Services Division Specialist (2)
 - WQ/Ops Quality Assurance Manager





Chemicals

- Many polymers and chemicals increased up to 26%
 - Ferric Sulfate = +35%
 - Polydyne = +26%
 - Praestol = +11%
- Practically **no** increase in Ops chemical budget (+0.1%)
 - Process improvements
 - More experience running new processes



What's the value of Research and Development?

- 10 Year Annualized Rate of Increase
 - Utilities = 0.31%
 - Chemicals = 0.86%
- Estimated Cumulative Savings = \$39.2M since 2009
 - Relative to Bureau of Labor Statistics (BLS) inflation data



Materials and Supplies (M&S)

- Major Repairs and Replacements
 - Digester cleaning
 - VIP biosolids improvements (centrifuge, afterburner, incinerator repairs)
 - Pump and Drive replacements
 - Mixers
- Computer and Software upgrades



SWIFT Oversight

- New cost center previously budgeted under General Expenses
 - Monitoring Lab = \$1M
 - Va Dept of Health Water Resources Engineer Grant = \$140k
 - USGS Monitoring and Research = \$102k



Contractual Services

- Williamsburg Distributive Control System (DCS)
 Upgrade
- Outsourcing condition assessment and gravity system inspection
- Ebill/Epay Fees Newport News and Va Beach switch to monthly billing
- Software maintenance

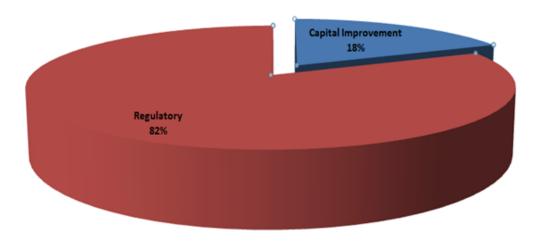


Capital Improvement Program

FY2020-2029 CIP Stats

- FY20-29 = \$2.8B
- 181 Projects
- Includes Integrated Plan
 - SWIFT projects through FY32
 - \$200M high priority wet weather improvements in FY20-31
 - Remaining wet weather projects FY31-53

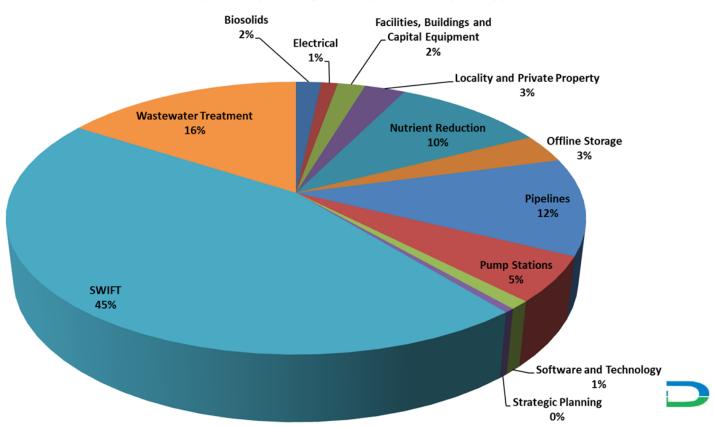
FY20 to FY29 Proposed Spending - Grouped by Regulatory Driver



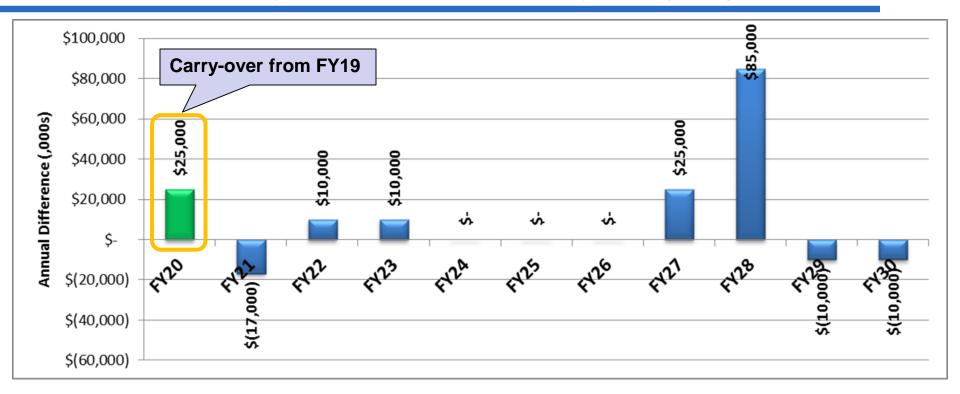


Project Types

FY20 to FY29 Proposed Spending - Grouped by Project Type

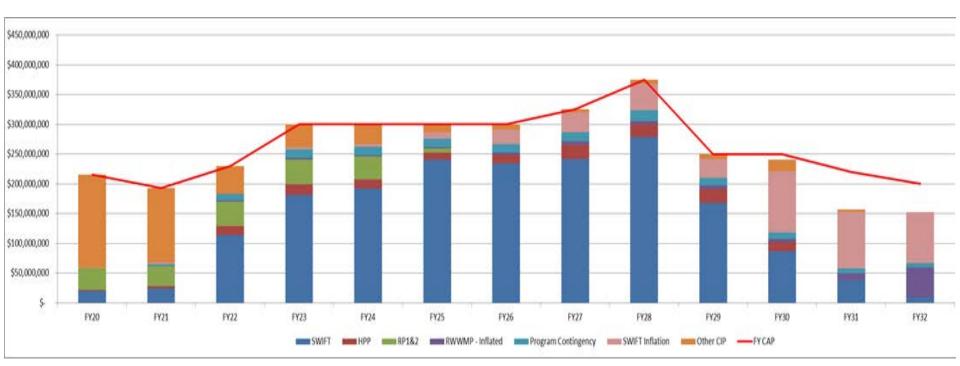


FY2020-2030 Adjustments to Annual CIP Spending Targets – Net +\$93M





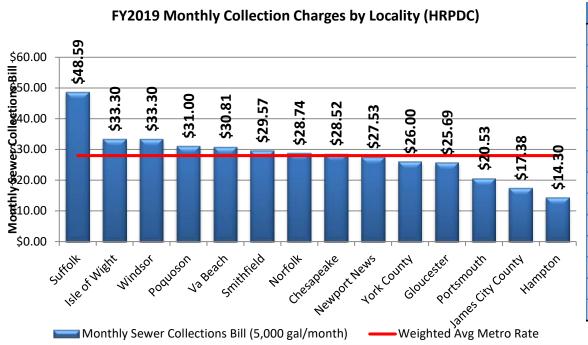
Annual CIP Spend by Program





Small Communities Rates

Small Communities Rate Based on Weighted Avg Metro Rate = \$5.60/k-gals



Locality	FY18 🔼	F	Y19 🔼	Rate Increas 💤
Isle of Wight	\$ 31.70	\$	33.30	5.05%
Windsor	\$ 31.70	\$	33.30	5.05%
Portsmouth	\$ 19.55	\$	20.53	5.03%
Norfolk	\$ 27.61	\$	28.74	4.12%
Newport News	\$ 27.03	\$	27.53	1.85%
James City County	\$ 17.21	\$	17.38	0.99%
Suffolk	\$ 48.19	\$ 4	48.59	0.83%
Chesapeake	\$ 28.52	\$	28.52	0.00%
Va Beach	\$ 30.81	\$	30.81	0.00%
Gloucester	\$ 25.69	\$	25.69	0.00%
Hampton	\$ 14.30	\$	14.30	0.00%
Poquoson	\$ 31.00	\$	31.00	0.00%
York County	\$ 26.00	\$	26.00	0.00%
Smithfield	\$ 29.57	\$	29.57	0.00%

Weighted Avg Metro Monthly Bill - 5,000 gal/month Weighted Avg Metro Rate - Per 1,000 gallons	\$28.00 \$5.60	YOY % Increase 1.3%
¹ Monthly Wastewater Collection obtained from HRPDC FY19 data call, excludes	Williamsbu	ırg
² Population for Isle of Wight County and Towns is divided equally		

Proposed Small Communities Rate (per k-gals)

5.86/ccf = 7.83/k-gals

FY20 Small Communities Treatment and Collections Residential Bill

	HRSD Rate (\$/k-gals)	Collections (\$/k-gals)	Capital Recovery (\$/k-gals)	FY20 Rate	Minimum Monthly Bill - 3,000 gals	Minimum Bimonthly Bill - 6,000 gals	Flat Monthly Bill ¹	YOY Increase
King William	\$7.83	\$5.60	\$0.39	\$13.82	\$41.46	\$82.92	\$55.28	4.3%
Surry	\$7.83	\$5.60	N/A	\$13.43	\$40.29	\$80.58	\$53.72	5.7%
Urbanna	\$7.83	\$5.60	\$2.05	\$15.48	\$46.44	\$92.88	\$61.92	4.3%
West Point	\$7.83	\$5.60	\$2.28	\$15.71	\$47.13	\$94.26	\$62.84	5.1%

¹ Assumes 4,000 gals per month

					Flat Monthly Bill	
			0 11 1		based on ERU	
	HRSD Rate	Collections	Capital Recovery		Usage Rate - 4,000 gals per	
	(\$/k-gals)	(\$/k-gals)	(\$/k-gals)	FY20 Rate	month	YOY Increase
Mathews	\$7.83	\$5.60	N/A	\$13.43	\$53.72	5.7%



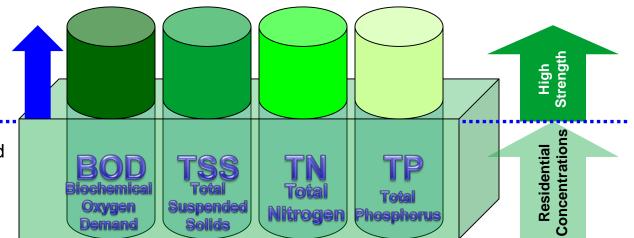
Surcharge Rates

Surcharges for High Strength or Unusual Wastes

- Domestic Quality Wastewater
- High Strength or Unusual Wastes

Surcharge Rates represent Marginal/Incremental Costs

BASE COST includes Fixed and Variable Costs





FY20 Surcharge Rates

Surcharge Rate per 100 lbs		Y19	Y19 FY20		FY19 vs FY20			
Pollutant	Calculated Calculated			\$ Differential % Differen				
Biochemical Oxygen Demand (BOD)	\$	1.67	\$	2.07	\$	0.40	24.0%	
Total Suspended Solids (TSS)	\$	9.49	\$	10.08	\$	0.59	6.2%	
Total Phosphorus (TP)	\$ 1	152.74	\$	158.12	\$	5.38	3.5%	
Total Kjeldahl Nitrogen (TKN)	\$	57.59	\$	54.11	\$	(3.48)	-6.0%	

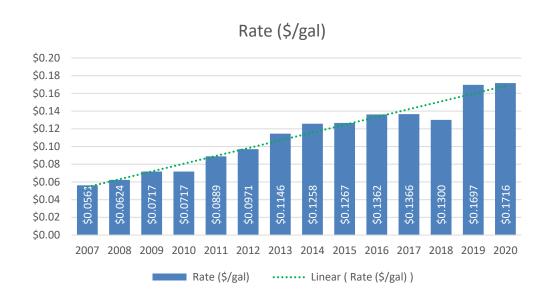
FY20 CALCULATED					
PROJECTED TOTAL BILL (VOL, BOD, TSS, TN, TP))				
Top Ten Largest Surcharge Customers	F۱	19 Projected	FY20 Proposed	\$ Increase	% Increase
SMITHFIELD FOODS INC	\$	5,203,336	\$ 5,670,752	\$ 467,416	9.0%
ANHEUSER BUSCH INC	\$	3,098,256	\$ 3,385,328	\$ 287,072	9.3%
PEPSI COLA COMPANY	\$	327,074	\$ 358,406	\$ 31,332	9.6%
MD VA MILK PRODUCERS ASSOC	\$	295,384	\$ 321,452	\$ 26,068	8.8%
37TH ST WATER TREATMENT PLANT	\$	257,833	\$ 275,894	\$ 18,061	7.0%
SENTARA HAMPTON GENERAL HOSP	\$	248,703	\$ 270,496	\$ 21,793	8.8%
BAE SYSTEMS-GUARD SHACK	\$	224,266	\$ 242,960	\$ 18,694	8.3%
BETHEL LANDFILL	\$	143,203	\$ 153,234	\$ 10,031	7.0%
SOUTHEASTERN PUBLIC SERVICE AUTHORITY	\$	137,121	\$ 144,487	\$ 7,366	5.4%
C & M INDUSTRIES INC	\$	104,535	\$ 113,555	\$ 9,020	8.6%



Hauled Waste Rate

FY20 Hauled Waste (Septage) Rate

- Cost to treat excluding conveyance
 - Volume
 - BOD
 - TSS
 - TN
 - TP
- FY19 = \$0.1697/gal
- FY20 = \$0.1717/gal (+1.1%)





Facility Charge Rates

Facility Charges

- Covers the cost of the new development's share of the wastewater system's capacity
- Based on average water meter size
 - Average flow assigned to each meter

Net Replacement Value X Meter Size HRSD's Plant Capacity Average Flow



Proposed FY20 Facility Charges – 3-Year Phase In

- Last updated in FY2017
- Chesapeake-Elizabeth will reduce both Net Replacement Value and HRSD's Plant Capacity by 24 MGD
- Propose a 3-year phase in
- Utilize a 10-year rolling average for average meter flow

	FY 19	3-Year Phase In		
Meter Size	Published	CE Closure	Change	% Change
5/8	\$1,895	\$1,905	\$10	0.5%
3/4	\$4,830	\$4,210	-\$620	-12.8%
1	\$8,170	\$7,410	-\$760	-9.3%
1½	\$17,260	\$16,645	-\$615	-3.6%
2	\$30,510	\$30,505	-\$5	0.0%
3	\$70,800	\$73,810	\$3,010	4.3%
4	\$128,660	\$138,445	\$9,785	7.6%
6	\$298,610	\$336,960	\$38,350	12.8%
8	\$542,680	\$634,710	\$92,030	17.0%
10	\$862,550	\$1,038,525	\$175,975	20.4%
12	\$1,259,520	\$1,554,120	\$294,600	23.4%
14	\$1,734,700	\$2,186,505	\$451,805	26.0%
16	\$2,289,010	\$2,940,135	\$651,125	28.4%

Net Replacement Value
HRSD's Plant Capacity

Meter Size
Average Flow



PAYGO (Cash) Spend Down – Meeting Liquidity Policy

March Monthly Report – Liquidity = 557 Days Cash

HRSD - UNRESTRICTED CASH

Can be used for any purpose since it is not earmarked for a specific use and is extremely liquid

		Days Cash on	Days Cash on
	_	Hand	Hand
Total Unrestricted Cash	\$ 257,148,583		557
Risk Management Reserve	\$ (3,439,784)	(7)	550
Reserve	\$ (15,266,324)	(33)	517
Capital (PAYGO only)	\$ (67,867,537)	(148)	369
Net Unassigned Cash	\$ 170,574,938		369

Target = 365Policy = 270-365



Fund Entire FY20 CIP with Cash – Issue debt in FY2021

SOURCES = \$215M

- Projected July 1, 2019 Capital Reserve Balance = \$77M
- Clean Water Loan Reimbursements = \$30M
- FY20 PAYGO (Cash for CIP) = \$108M

USES = \$215

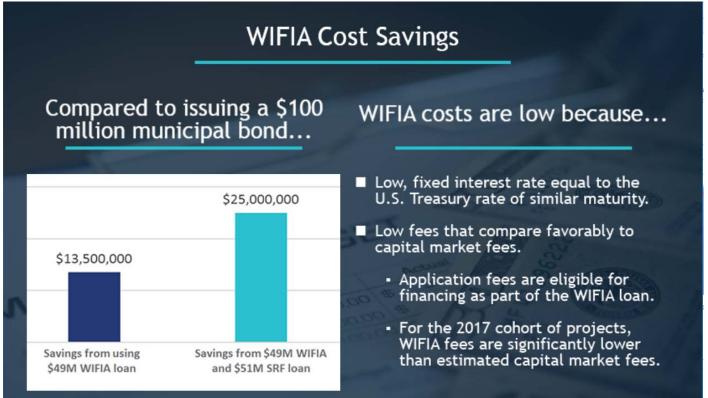
• FY20 CIP = \$215M

Spend bond proceeds first to meet IRS arbitrage rebate guideline (18 month "spending exception") – Most recent bond sale Jan 2018



Water Infrastructure Finance and Innovation Act (WIFIA)

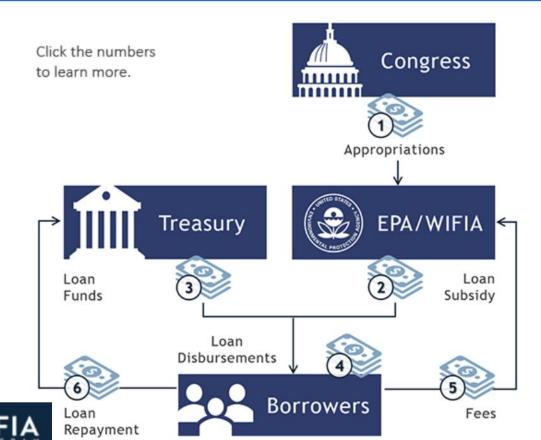
Best Case Scenario – WIFIA + Clean Water Loans save 25%







How WIFIA Works



Should we pursue WIFIA funds?

Pros

- Low rate fixed at closing
- Flexible repayment
- Allowed at the subordinate lien position

Cons

- Long approval timeline
- Davis/Bacon
- American Iron and Steel
- Environmental Permitting
- Historic Preservation Act





WIFIA Strategy – Letter of interest due July 5th

- Commission action in May 2019
- Apply for projects that make sense using criteria
 - Financing will not drive schedule
- Use an optimization model for financing structure
- Go/No Go if we are invited to apply (\$100k application fee)





- March 26 Budget Work Session
- April 1 Final CIP Meeting
- April 12 Finance Committee meeting (Atlantic Plant)
- April 23 Draft Budget and Revenue Policy Submittal
- May 28 Formal Budget Adoption
- Newspaper advertisement 4 consecutive weeks
- July 1 Budget Effective



Questions?