

FY19

Water and Wastewater Budget Presentation

Jayson E. Barfknecht, Ph.D., P.E.
City of Bryan
Public Works Director



Outline

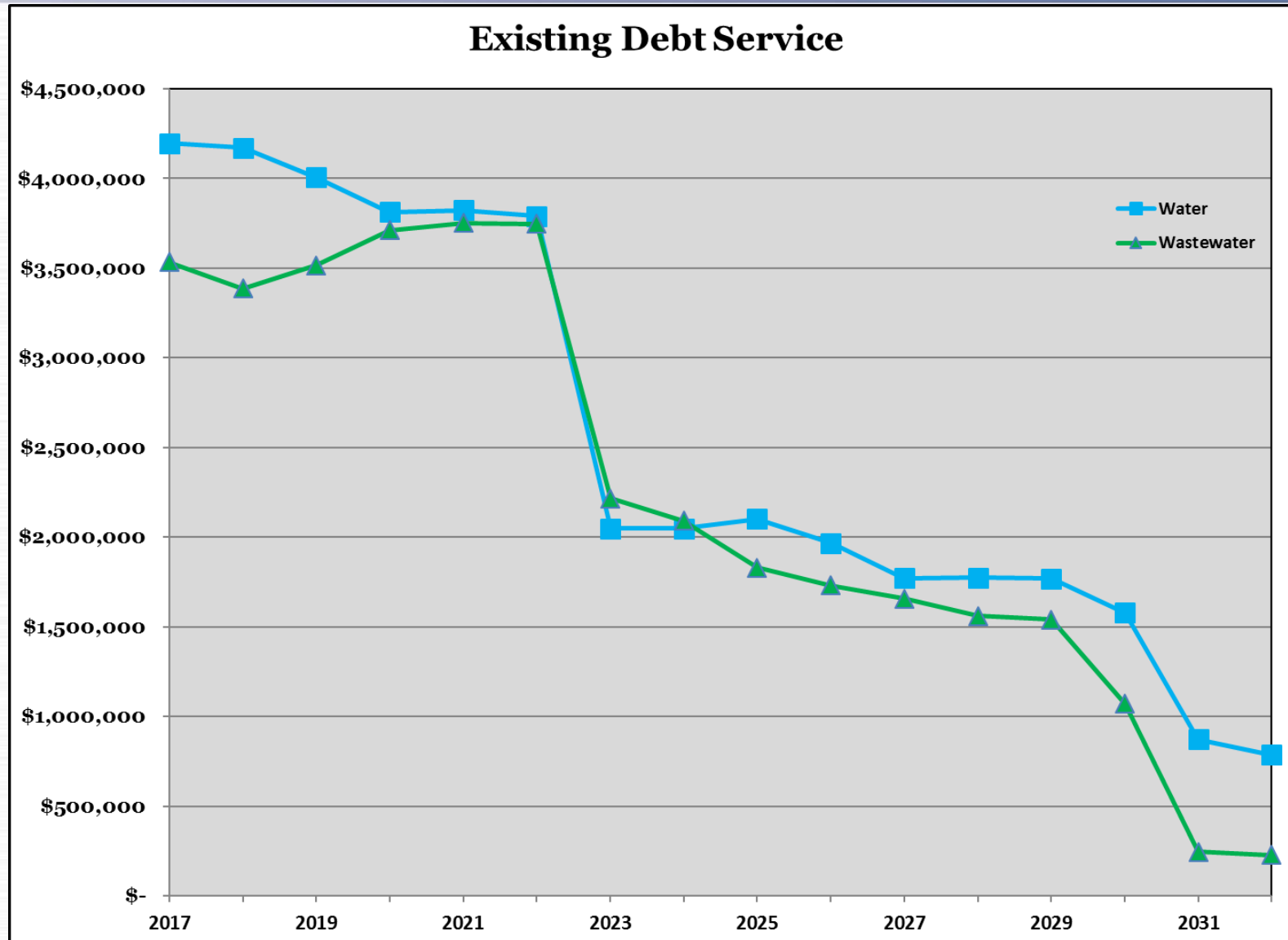
- Budget Assumptions
- Departmental Information
- Water Budget
- Wastewater Budget
- Future Items/Recommendations
- Questions



Assumptions/Unknowns

- No immediate cost increase in electric services
- Right-of-way fees - 5%
- No appreciable increase in Admin Fees
- Estimated increases in revenue and expenses due to growth and inflation
- Revenue from Bed and Banks not included
- Future vehicle replacements included
- Future capital expenditures for billing and BTU customer service included

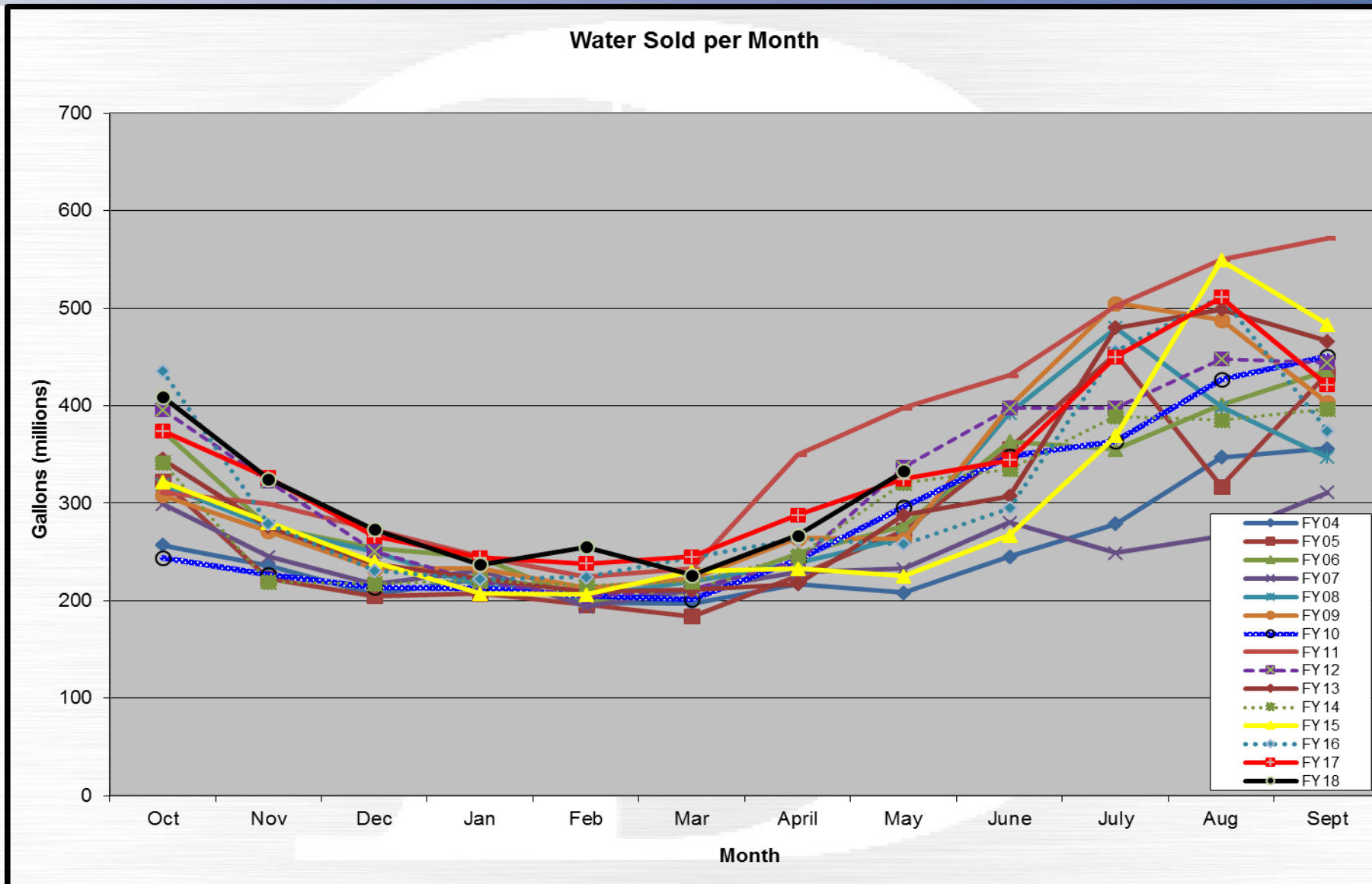
Existing Debt Service



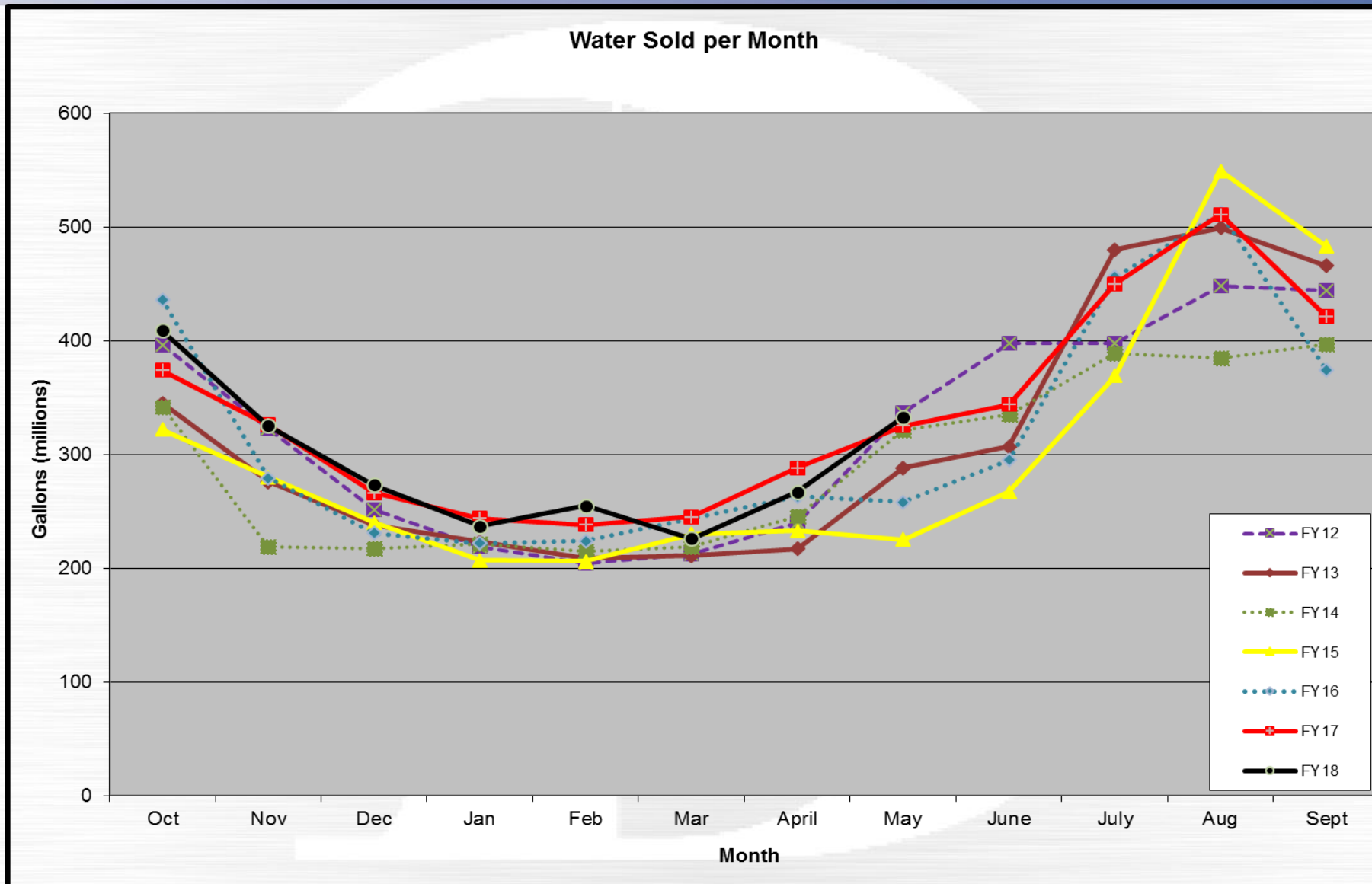
Work Order History

Fiscal Year	Meters	Water	Sewer	Locates	Samples	Totals
2012	16,492	2,157	4,224	876	1,029	24,778
2013	17,219	3,870	4,594	1,026	1,010	27,719
2014	16,116	4,632	4,786	1,261	1,077	27,872
2015	15,263	3,742	4,583	1,889	1,030	26,507
2016	16,422	3,867	4,969	1,718	1,023	27,999
2017	9,021	3,904	5,425	2,792	1,124	22,266
Totals	90,533	22,172	28,581	9,562	6,293	157,141

Water Sold



Water Sold



Proposed Water Fixed Charges

	Current Meter Count	Current Rates	Step 1	Step 2	Step 3	Step 4	Current College Station Rates
Residential Meter Charge							
5/8" or 3/4"	19,152	\$ 8.31	\$ 9.70	\$ 11.10	\$ 12.50	\$ 13.80	\$ 10.19
1"	344	8.31	10.30	12.40	14.80	17.30	12.78
1.5"	92	8.31	11.30	15.20	20.00	25.80	19.03
2"	21	8.31	12.70	19.10	28.10	40.70	30.05
Commercial Meter Charge							
5/8" or 3/4"	2,004	\$ 13.74	\$ 13.80	\$ 13.80	\$ 13.80	\$ 13.80	\$ 10.19
1"	629	13.74	14.60	15.50	16.40	17.30	12.78
1.5"	453	16.20	18.30	20.50	23.00	25.80	19.03
2"	645	21.60	25.40	29.70	34.80	40.70	30.05
3"	65	53.40	66.70	83.00	103.20	128.40	94.84
4"	50	76.00	96.00	120.70	151.80	190.80	140.90
6"	16	91.00	115.40	145.70	184.00	232.30	171.53
8"	4	100.00	129.30	166.50	214.40	276.00	
10"	1	110.00	143.80	187.30	243.80	317.40	
12"	0	130.00	177.40	241.10	327.50	445.10	

- Proposed fixed charges increase revenue recovery to approximately 35% of retail revenue requirement

Proposed Water Volumetric Charges

	Current Rates	Step 1	Step 2	Step 3	Step 4	Current College Station Rates
Residential						
<i>Rates per 1,000 gallons</i>						
0-30,000	\$ 2.76	\$ 2.76	\$ 2.76	\$ 2.50	\$ 2.30	\$ 2.26 to \$ 4.96
30,001-50,000	3.00	3.00	3.00	3.00	3.00	4.96
> 50,000	3.50	3.50	3.50	3.50	3.50	4.96
Commercial						
<i>Rates per 1,000 gallons</i>	\$ 2.38	\$ 2.40	\$ 2.40	\$ 2.40	\$ 2.40	\$ 2.49 to \$ 2.68

- After recovering projected revenue requirement, reduce volumetric rate for Residential first tier to mitigate impact on smaller customers and balance revenue recovery

Proposed Water Rate Bill Impacts

Residential Water Bill Comparisons

	Bryan Current	Step 1	Step 2	Step 3	Step 4
5/8-inch Meter					
5,000 Gallons	\$ 22.11	\$ 23.50	\$ 24.90	\$ 25.00	\$ 25.30
Increase Over Prior Step		1.39	1.40	0.10	0.30
10,000 Gallons	35.91	37.30	38.70	37.50	36.80
Increase Over Prior Step		1.39	1.40	(1.20)	(0.70)
15,000 Gallons	49.71	51.10	52.50	50.00	48.30
Increase Over Prior Step		1.39	1.40	(2.50)	(1.70)
1-inch Meter					
5,000 Gallons	\$ 22.11	\$ 24.10	\$ 26.20	\$ 27.30	\$ 28.80
Increase Over Prior Step		1.99	2.10	1.10	1.50
10,000 Gallons	35.91	37.90	40.00	39.80	40.30
Increase Over Prior Step		1.99	2.10	(0.20)	0.50
15,000 Gallons	49.71	51.70	53.80	52.30	51.80
Increase Over Prior Step		1.99	2.10	(1.50)	(0.50)



Water

FY19 – Water Revenues

	FY2017 Actual	FY2018 Adopted	FY2018 Projected	FY2019 Proposed	\$Chng/FY18 Adopted	%Change FY18
<u>Revenues</u>						
Operating Revenues:						
Water Sales	\$ 12,711,804	\$ 12,000,000	\$ 12,600,000	\$ 12,600,000	\$ 600,000	5.0%
Water Penalties	134,689	132,000	132,000	132,000	-	0.0%
Miscellaneous	581,562	633,000	522,500	516,500	(116,500)	-18.4%
<i>Total Operating Revenues</i>	13,428,055	12,765,000	13,254,500	13,248,500	483,500	3.8%
Non-Operating Revenues:						
Interest Income	49,096	25,000	87,000	65,000	40,000	160.0%
Gain (Loss) on Assets	70,686	-	-	-	-	-
Water Tap Fees	155,341	125,000	155,000	135,000	10,000	8.0%
Oil & Gas Royalty	43	1,500	60	55	(1,445)	-96.3%
Inventory markup	20,343	18,000	-	-	(18,000)	-100.0%
Miscellaneous non-operating income	79,431	90,000	70,631	76,000	(14,000)	-15.6%
Transfers In	40,054	30,000	30,000	35,307	5,307	17.7%
<i>Total Non-Operating Revenues</i>	414,994	289,500	342,691	311,362	21,862	7.6%
Total Revenues	13,843,049	13,054,500	13,597,191	13,559,862	505,362	3.9%

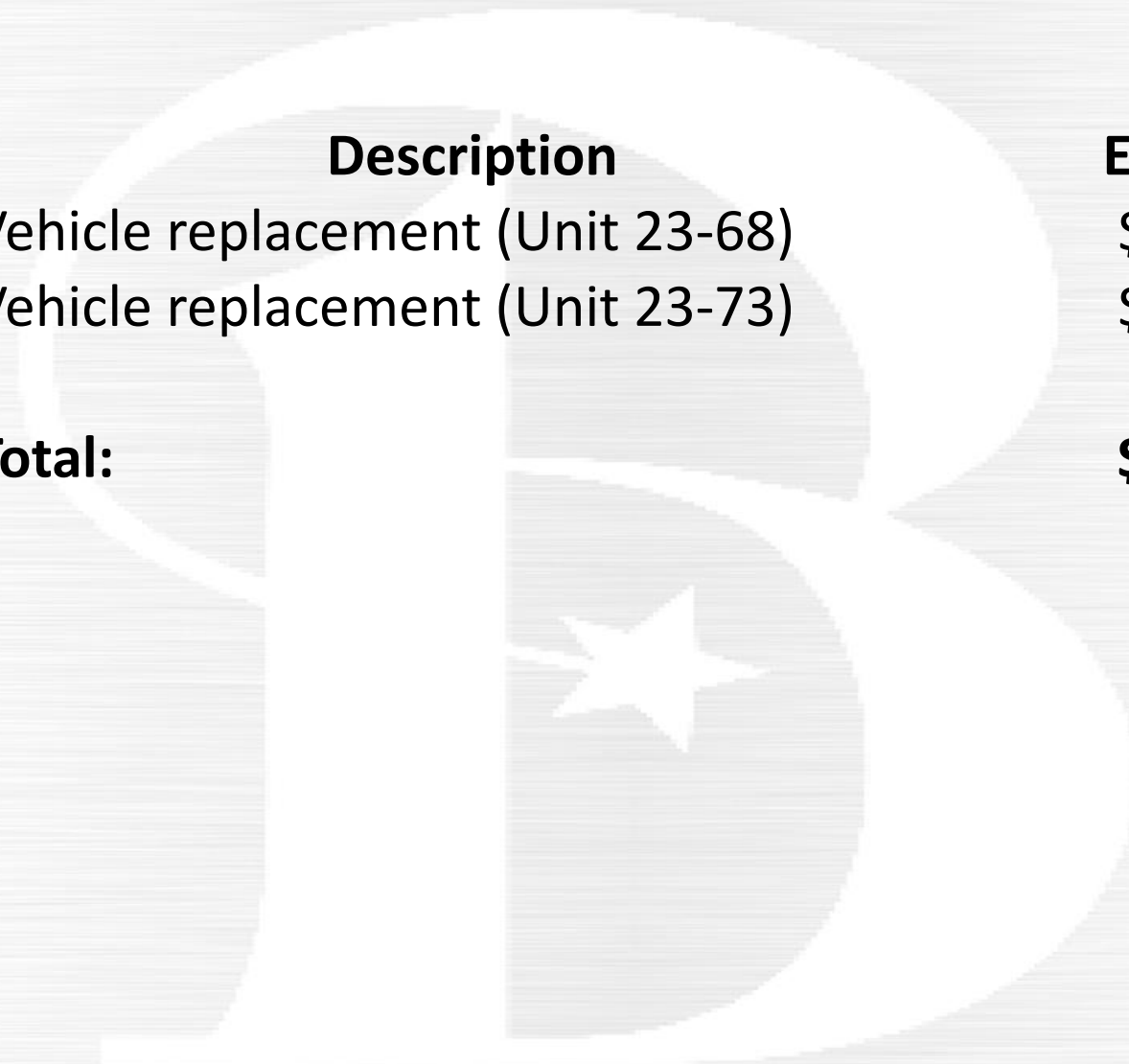
FY19 – Water Expenses

	FY2017 Actual	FY2018 Adopted	FY2018 Projected	FY2019 Proposed	\$Chng/FY18 Adopted	%Change FY18
<u>Expenditures</u>						
Operating Expenses:						
Water Administration	868,715	524,326	747,445	583,668	59,342	11.3%
Water Production	2,518,497	2,967,517	2,723,258	3,009,525	42,008	1.4%
Water Distribution	2,424,502	2,533,856	2,374,463	2,596,665	62,809	2.5%
General & Admin. Reimbursement	433,420	512,574	512,574	524,125	11,551	2.3%
Transfer to Other Funds	74,765	57,725	57,725	70,768	13,043	22.6%
Transfer to BTU	479,487	478,222	478,222	549,092	70,870	14.8%
<i>Total Operating Expenses</i>	6,799,386	7,074,220	6,893,687	7,333,843	259,623	3.7%
Non-Operating Expenses:						
Annual Capital	1,212,247	1,694,000	2,450,000	3,300,000	1,606,000	94.8%
Right of Way Payments	654,709	638,250	662,425	662,425	24,175	3.8%
Paying Agent Fee	1,270	15,000	15,000	15,000	-	0.0%
Miscellaneous Debt Expense	198,485	25,000	25,000	25,000	-	0.0%
Debt Service	4,196,771	4,169,538	4,169,538	4,006,538	(163,000)	-3.9%
<i>Total Non-Operating Expenses</i>	6,263,482	6,541,788	7,321,963	8,008,963	1,467,175	22.4%
Total Expenditures	13,062,868	13,616,008	14,215,650	15,342,806	1,726,798	12.7%

FY19 – Water Summary

	FY2017 Actual	FY2018 Adopted	FY2018 Projected	FY2019 Proposed
Net Increase/(Decrease)	780,181	(561,508)	(618,459)	(1,782,944)
Beginning Operating Funds	6,731,872	5,431,880	7,006,860	6,388,401
Timing of Cash Flows	(505,193)	-	-	-
Ending Operating Funds	\$ 7,006,860	\$ 4,870,372	\$ 6,388,401	\$ 4,605,457
Reserve Requirement : (Sixty days operating expenses)	\$ 1,133,231	\$ 1,179,037	\$ 1,148,948	\$ 1,222,307

Water Decision Packages



	Description	Est. Cost
1	Vehicle replacement (Unit 23-68)	\$35,000
2	Vehicle replacement (Unit 23-73)	\$38,500
	Total:	\$73,500

Future Projects

FY18: Debt \$3.30 MM (Cash \$2.45 MM)

- West Side Water Transmission Phase 1: \$1.80 MM (existing funds)
- ASR Pilot Well: \$1.50 MM (existing funds)
- Linda Lane: \$0.56 MM
- Meadow Lane: \$0.30 MM (complete)
- West 26th: \$0.52 MM (complete)
- South College: \$0.35 MM (complete)
- Paint North Texas Tower: \$0.35 MM (complete)
- SH47 12-inch Line Extension: \$0.15 MM
- Design HSPS Generator: \$0.22 MM

FY19: Cash \$3.30 MM

- Land for ASR Project: \$2.73 MM
- Palasota: \$0.57 MM

Future Projects

FY20: Debt \$4.00 MM/\$19.00 MM (Cash \$2.35 MM)

- Old Hearne Rd Ph 1: \$0.75 MM
- Sulphur Springs: \$0.50 MM
- South Coulter Reconstruct: \$0.50 MM
- Paint Inside Luza Tower: \$0.30 MM
- Woodville Rd: \$0.30 MM
- SH47/SH21 18-inch WL: \$4.00 MM
- ASR Wells: \$15.00 MM

FY21: Cash \$1.80 MM

- Distribution Lines: \$0.50 MM
- HSPS Emergency Generator: \$1.30 MM

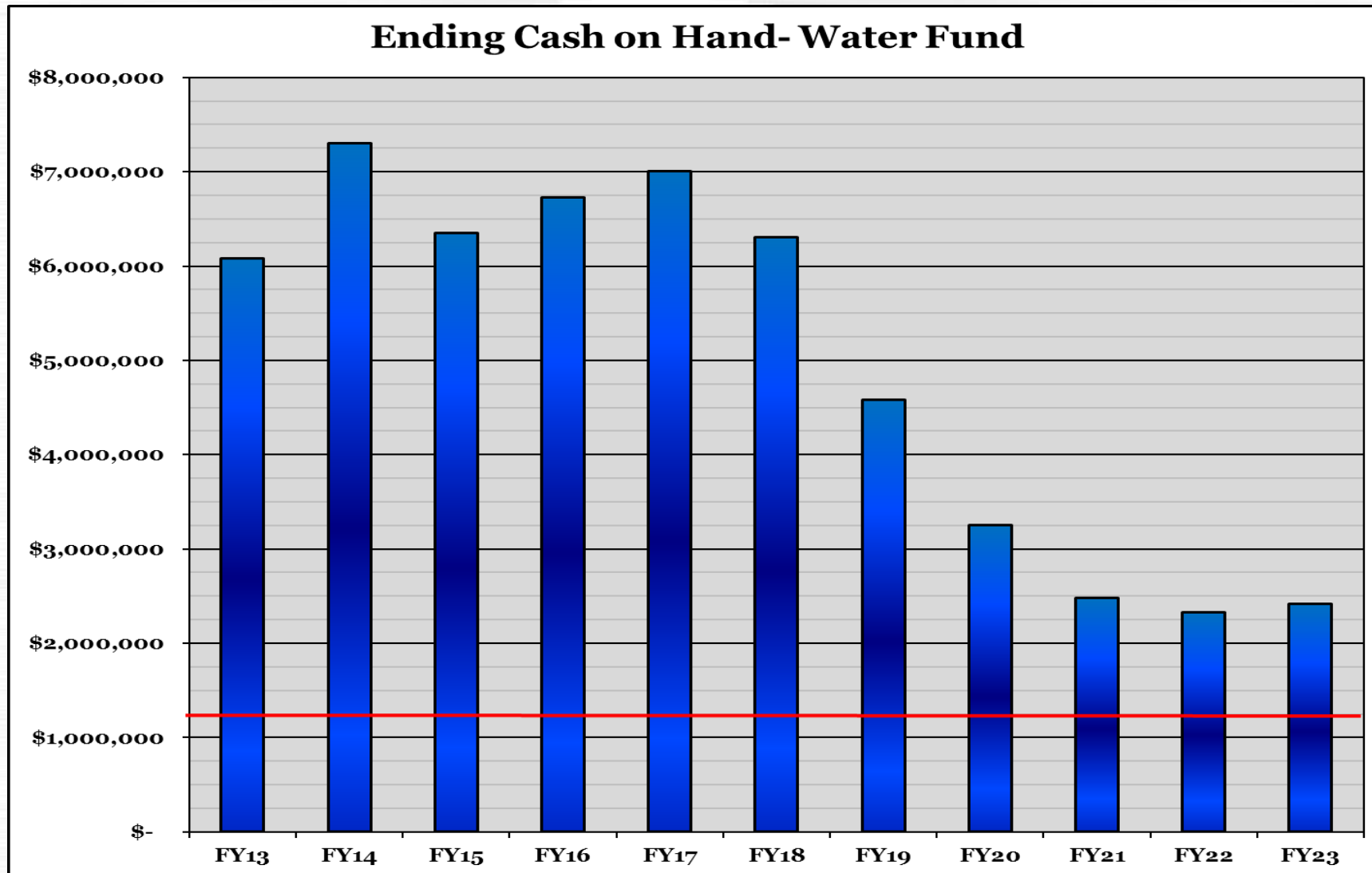
FY22: Debt \$4.00 MM (Cash \$1.00 MM)

- Commerce/Holt: \$0.50 MM
- Distribution Lines: \$0.50 MM
- West Side Elevated Tower: \$4.00 MM

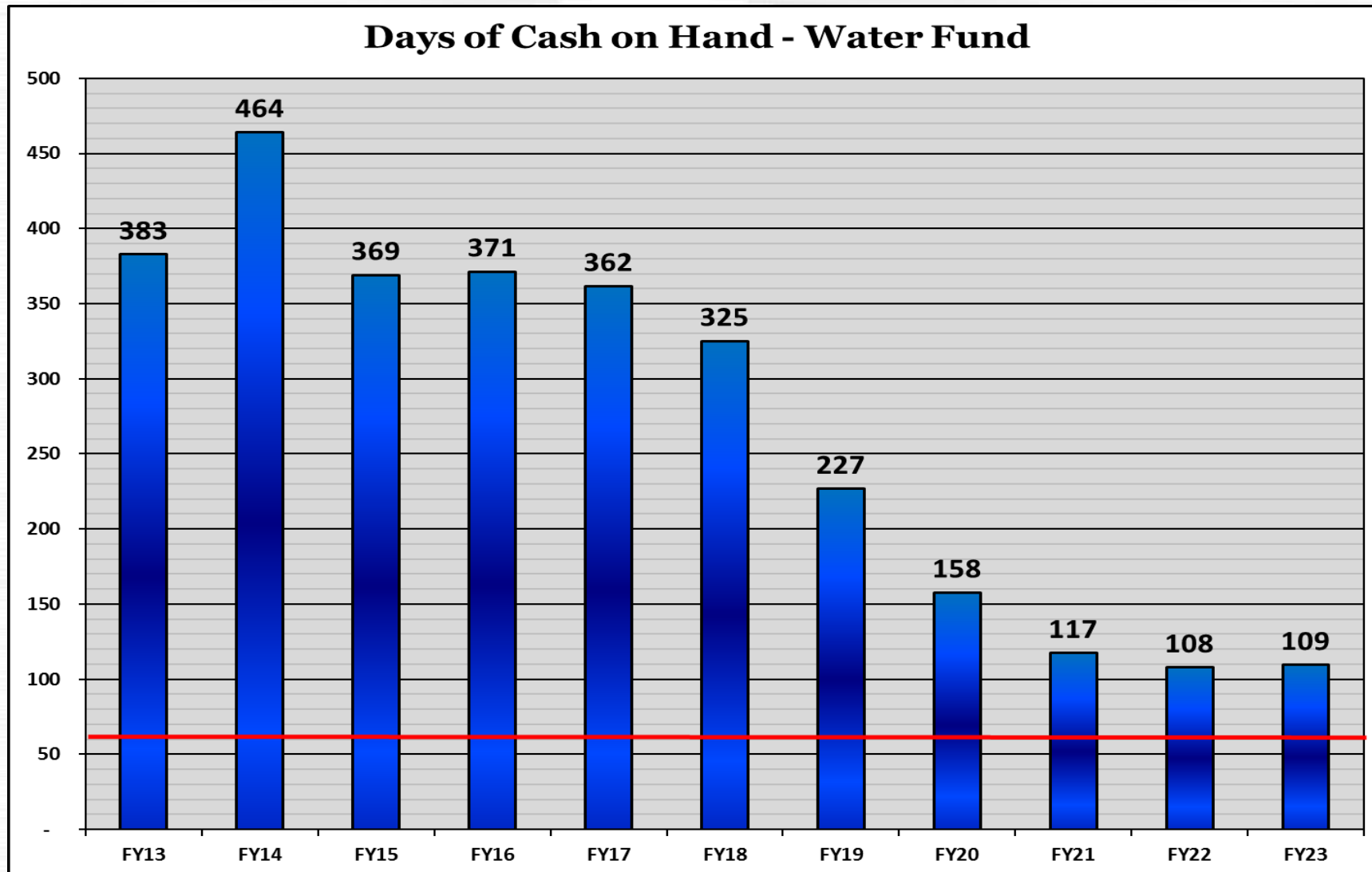
FY23: Cash \$2.50 MM

- Distribution Lines: \$2.50 MM

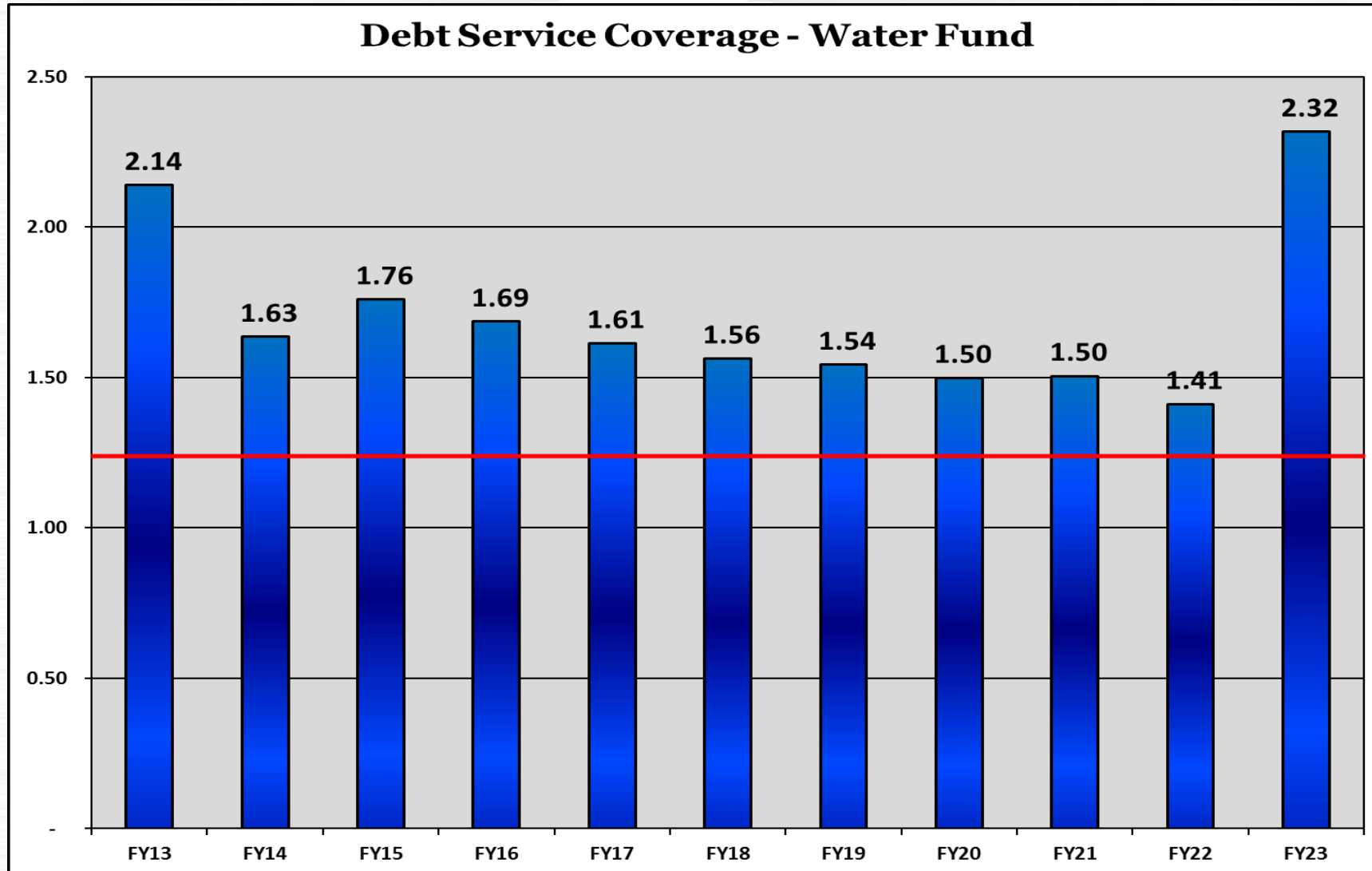
Ending Cash



Days of Cash



Debt Service Coverage





Wastewater

FY19 – Wastewater Revenue

	FY2017 Actual	FY2018 Adopted	FY2018 Projected	FY2019 Proposed	\$Chng/FY18 Adopted	%Change FY18
<u>Revenues</u>						
Operating Revenues						
Sewer System Revenue	\$ 12,311,305	\$ 12,150,000	\$ 12,280,000	\$ 12,300,000	\$ 150,000	1.2%
Sewer Penalties	120,343	126,000	123,000	124,000	(2,000)	-1.6%
Miscellaneous	16,270	7,000	6,200	6,300	(700)	-10.0%
Pretreatment Fees	611,213	650,000	615,000	615,000	(35,000)	-5.4%
Hauler & Sewer Inspection Fees	\$ 61,900	64,200	67,550	42,500	(21,700)	-33.8%
<i>Total Operating Revenues</i>	13,121,031	12,997,200	13,091,750	13,087,800	90,600	0.7%
Non-Operating Revenues						
Sewer Tap Fees	112,758	95,000	110,000	95,000	-	0.0%
Miscellaneous-Non Operating	39,101	22,000	29,650	29,000	7,000	31.8%
Transfers from Other Funds	171,290	282,862	282,862	295,933	13,071	4.6%
Interest Income	68,879	50,000	125,000	87,000	37,000	74.0%
Gain on sale of asset	120,570	-	-	-	-	0.0%
<i>Total Non-Operating Revenues</i>	512,598	449,862	547,512	506,933	57,071	12.7%
Total Revenues	13,633,629	13,447,062	13,639,262	13,594,733	147,671	1.1%

FY19 – Wastewater Expenses

	FY2017 Actual	FY2018 Adopted	FY2018 Projected	FY2019 Proposed	\$Chng/FY18 Adopted	%Change FY18
<u>Expenditures</u>						
Operating Expenses						
Wastewater Administration	866,562	426,193	472,537	1,266,420	840,227	197.1%
Wastewater Collection	2,102,713	2,225,302	2,091,826	2,292,575	67,273	3.0%
Wastewater Pre-Treatment	82,043	95,095	87,705	97,711	2,616	2.8%
Wastewater Treatment	2,236,748	2,688,005	2,356,030	2,756,336	68,331	2.5%
Environmental Services	589,308	606,915	612,256	627,434	20,519	3.4%
General & Admin Reimbursement	549,668	609,785	609,785	618,113	8,328	1.4%
Transfer to Other Funds	44,507	34,431	34,431	46,374	11,943	34.7%
Transfer to BTU	461,846	464,489	464,489	532,138	67,649	14.6%
<i>Total Operating Expenses</i>	6,933,395	7,150,215	6,729,059	8,237,101	1,086,886	15.2%
Non-Operating Expenses						
Annual Capital	1,342,157	4,800,000	5,550,000	3,600,000	(1,200,000)	-25.0%
Right of Way Payments	638,494	647,100	651,590	652,640	5,540	0.9%
Paying Agent Fee	2,155	5,000	5,000	5,000	-	0.0%
Bond Sales Expense	45,608	-	-	-	-	N/A
Debt Service	3,533,911	3,386,768	3,386,768	3,514,420	127,652	3.8%
<i>Total Non-Operating Expenses</i>	5,562,325	8,838,868	9,593,358	7,772,060	(1,066,808)	-12.1%
Total Expenditures	12,495,720	15,989,083	16,322,417	16,009,161	20,078	0.1%

FY19 – Wastewater Summary

	FY2017 Actual	FY2018 Adopted	FY2018 Projected	FY2019 Proposed
Net Increase/(Decrease)	1,137,909	(2,542,021)	(2,683,155)	(2,414,428)
Beginning Operating Funds	9,857,562	8,356,491	10,605,840	7,922,685
Timing of Cash Flows	(389,631)			
Ending Operating Funds	\$ 10,605,840	\$ 5,814,470	\$ 7,922,685	\$ 5,508,257
Reserve Requirement : (Sixty days operating expenses)	\$ 1,155,566	\$ 1,191,703	\$ 1,121,510	\$ 1,372,850

Decision Packages

	Description	Est. Cost
1	Vehicle replacement (Unit 24-37)	\$350,000
2	Vehicle replacement (Unit 25-30)	\$36,000
3	Still Creek Dump-Veyor	\$244,000
4	Still Creek Blower	\$313,000
5	Vehicle for new Code Officer	\$25,000
	Total:	\$968,000

Future Projects

FY18: Cash \$5.50 MM

- Burton Creek Digester: \$1.00 MM (bid)
- Collection Lines: \$1.00 MM
- West 26th: \$0.98 MM (complete)
- South College: \$0.54 MM (complete)
- Meadow Lane: \$0.48 MM (complete)
- Eastside Sewer: \$0.70 MM
- Design Hwy 47 Sewer: \$0.325 MM
- SH21 West: \$0.25 MM (bid)
- Still Creek Grease Plant: \$0.225 MM (Decision Package)

FY19: Cash \$3.6 MM

- Collection Lines: \$1.50 MM
- East Side WWTP Property: \$1.30 MM
- Palasota \$0.45 MM
- Greenbrier Sewer: \$0.275 MM
- East Side WWTP Permit: \$0.075 MM

Future Projects

FY20: Cash \$4.65 MM

- SH47 Lift Station and Trunk Line: \$2.50 MM
- Old Hearne Ph 1: \$0.70 MM
- Woodville Rd: \$0.65 MM
- South Coulter: \$0.40 MM
- Sulphur Springs: \$0.40 MM

FY21: Cash \$1.25 MM

- Collection Lines: \$0.75 MM
- East Side WWTP Offsite Utilities: \$0.50 MM

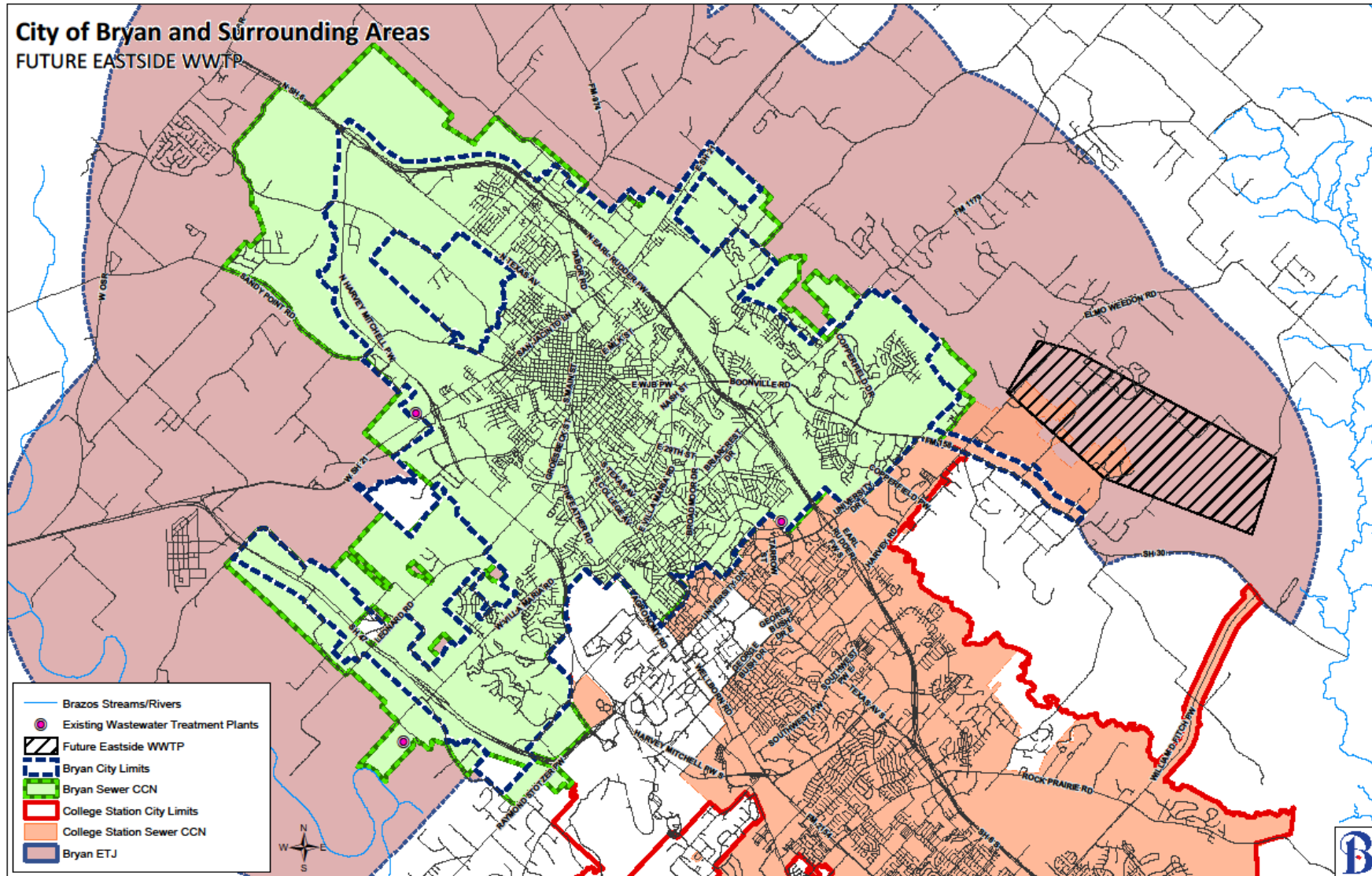
FY22: Cash \$1.25 MM

- Collection Lines: \$0.75 MM
- Commerce/Holt: \$0.50 MM

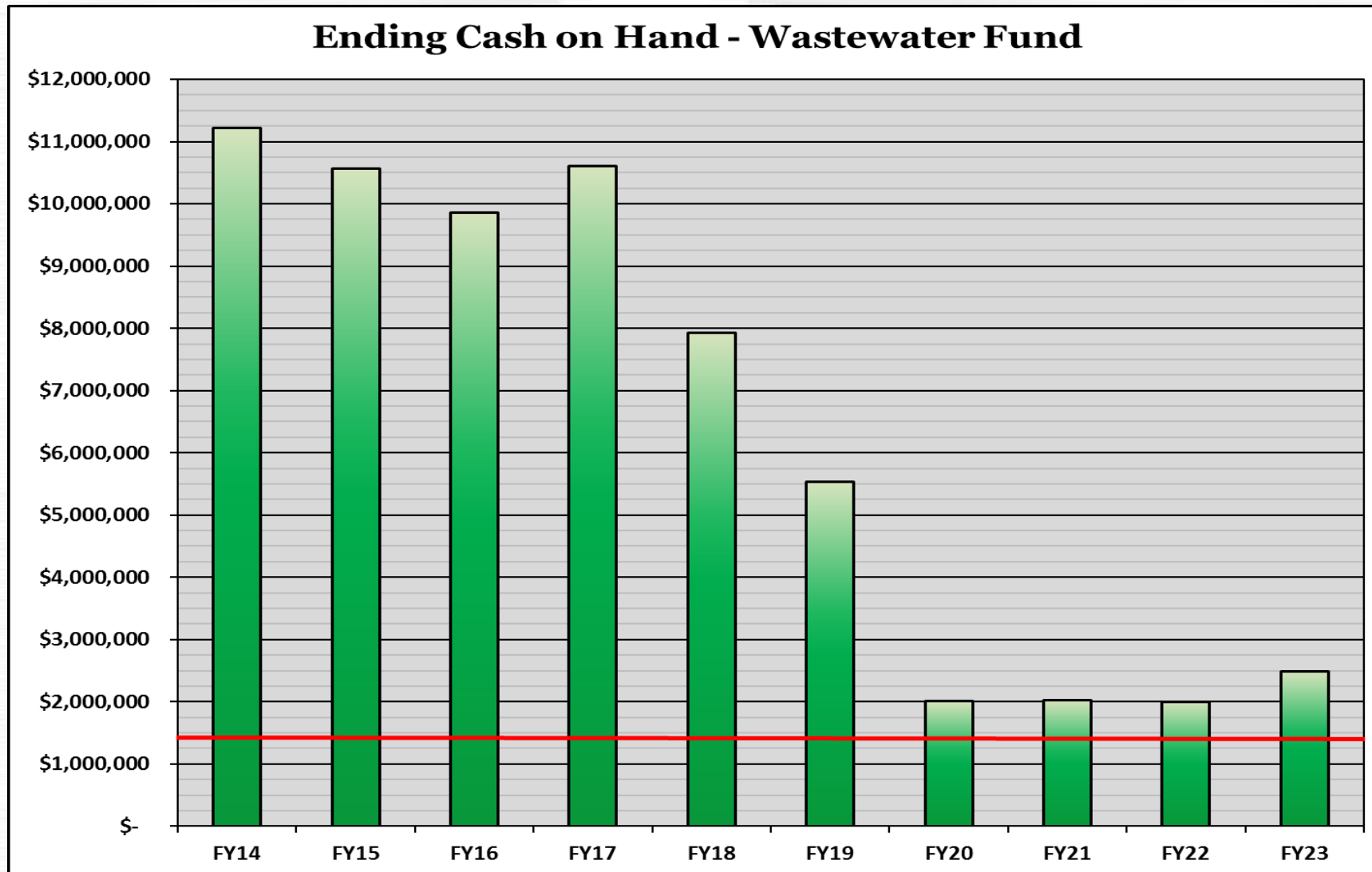
FY23: Cash \$2.50 MM

- Collection Lines: \$2.50 MM

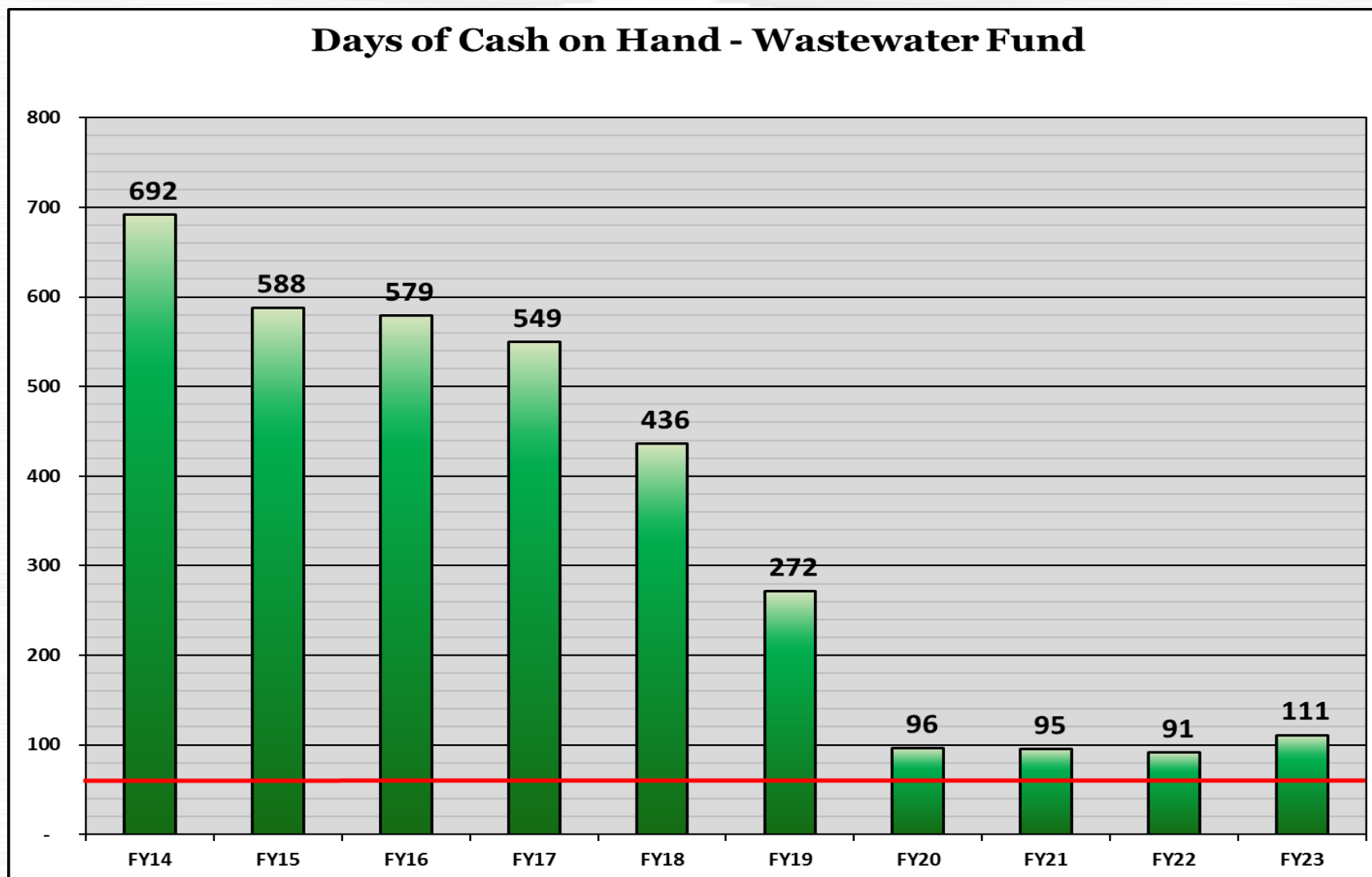
East Side Sewer Improvements



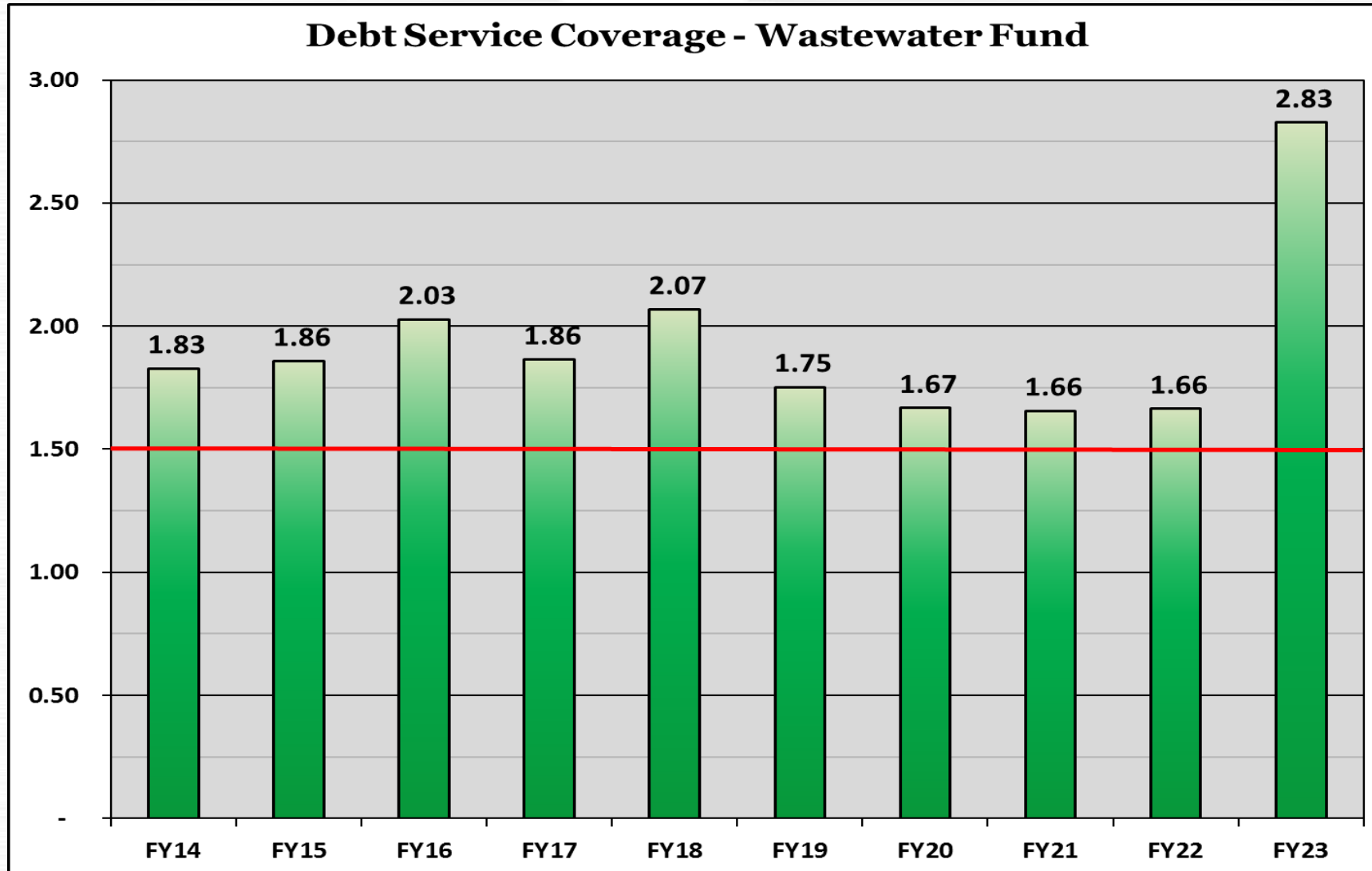
Ending Cash



Days of Cash



Debt Service Coverage



Future Items

- Private repairs to reduce I&I (ongoing)
- Extension Ordinance (Pro Rata)
- Reuse water customers
- Advanced notification of water outage
- **Water usage data to customers**
- Eastside Wastewater Treatment Plant Expansion
 - \$50-\$75 million
- Water Production ASR Project
 - \$40-\$50 million
 - First Phase \$18 million – Pilot Test has bid. Award coming to Council in August/September

AMI Data – 30 Day

FlexNet ID: 84976910
Meter ID: COB23777
Type: Water Endpoint, North American 2-Way Water
Firmware Revision: Flexnet: R1.9.12
Primary Group Address:
Transmit Mode: mPass / Normal Mix (1:4)
Transmit Rate: 240 Minutes
Endpoint State: Fixed Based (LAT)

Summary

Configuration

Commands

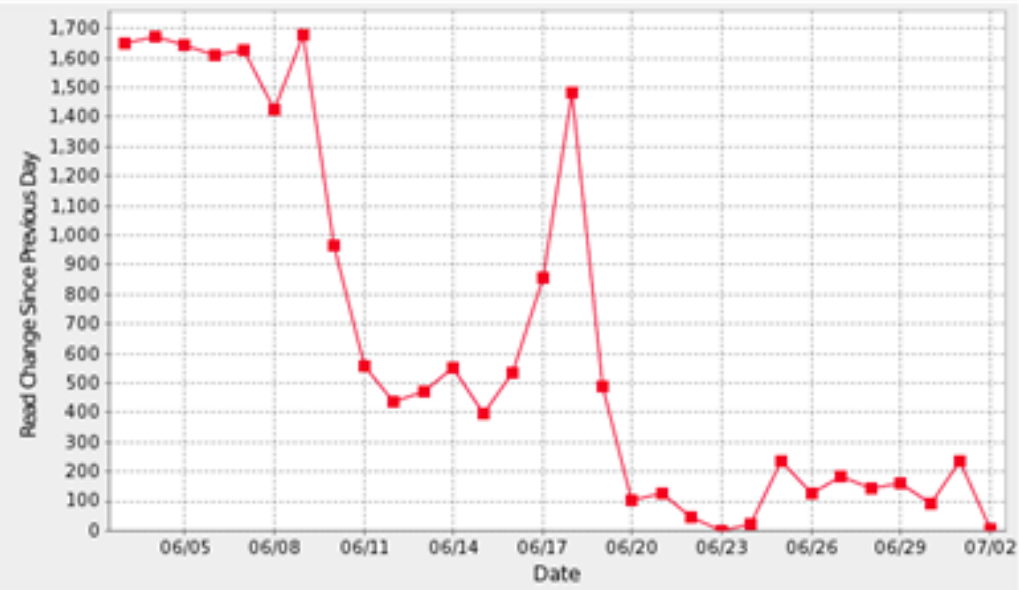
Load Profile

Read Backfill

From: 7/2/2018

Previous 30 Days

Readings Chart



AMI Data – 7 Day

FlexNet ID: 84976910
Meter ID: COB23777
Type: Water Endpoint, North American 2-Way Water
Firmware Revision: Flexnet: R1.9.12
Primary Group Address:
Transmit Mode: mPass / Normal Mix (1:4)
Transmit Rate: 240 Minutes
Endpoint State: Fixed Based (LAT)

Summary

Configuration

Commands

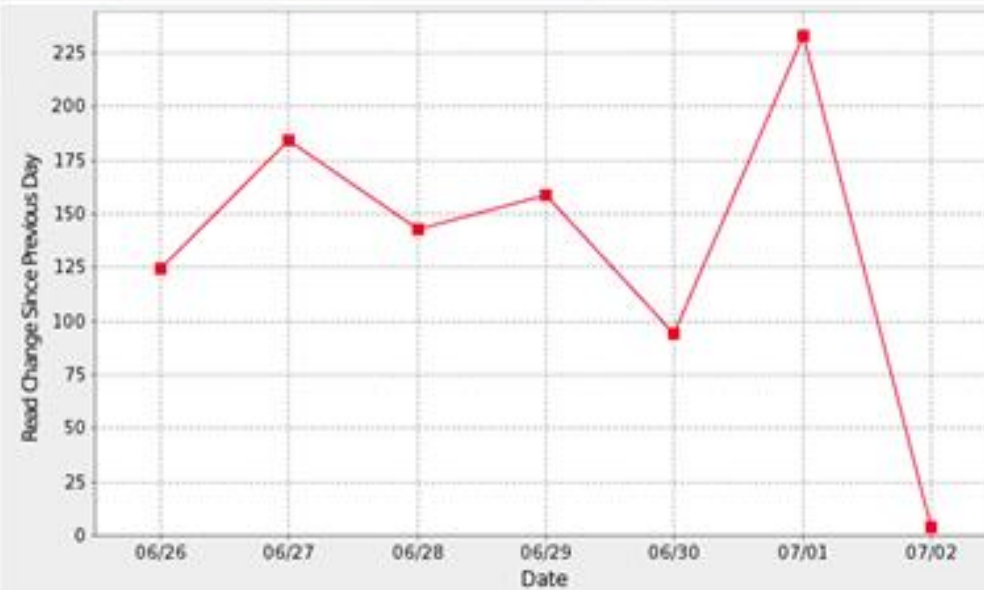
Load Profile

Read Backfill

From: 7/2/2018

Previous 7 Days

Readings Chart



AMI Data – Hourly

FlexNet ID: 84976910
Meter ID: COB23777
Type: Water Endpoint, North American 2-Way Water
Firmware Revision: Flexnet: R1.9.12
Primary Group Address:
Transmit Mode: mPass / Normal Mix (1:4)
Transmit Rate: 240 Minutes
Endpoint State: Fixed Based (LAT)

Summary

Configuration

Commands

Load Profile

Read Backfill

From: ⏪

7/1/2018 ▼

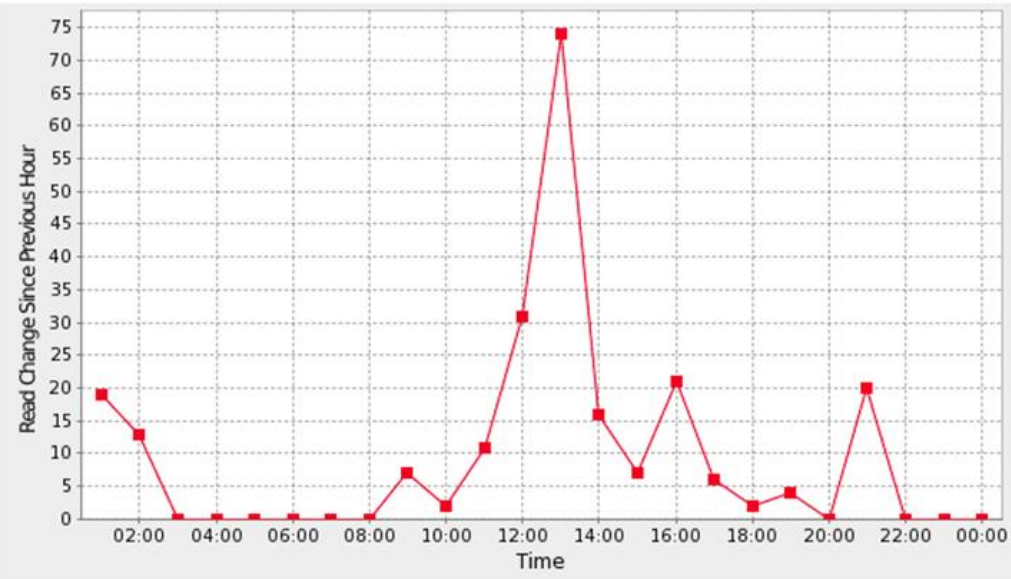
⏩

Single Day ▼

▼

Readings Chart ▼

▼



Questions/Direction

