

FY20

Water and Wastewater Budget Presentation

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City of Bryan
Public Works Director



Outline

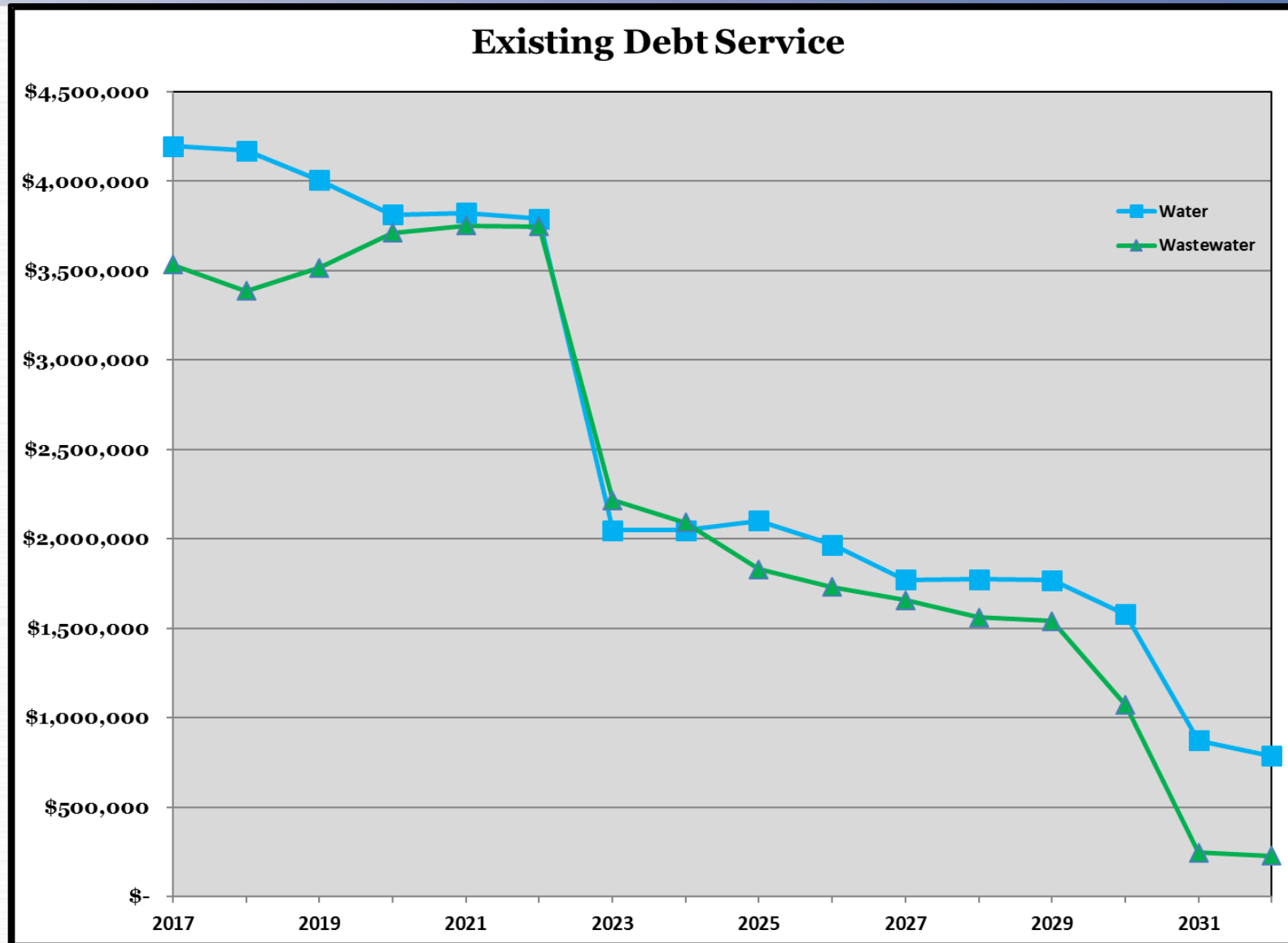
- Budget Assumptions
- Departmental Information
- Water Budget
- Wastewater Budget
- Future Items/Recommendations
- Questions



Assumptions/Unknowns

- No immediate cost increase in electric services
- Right-of-way fees - 5% (7% charter max - ~ \$265k increase both funds)
- No appreciable increase in Admin Fees
- Estimated increases in revenue and expenses due to growth and inflation
- Revenue from Bed and Banks not included (~\$600k/year)
- Future vehicle replacements included
- Future capital expenditures for billing and BTU customer service included

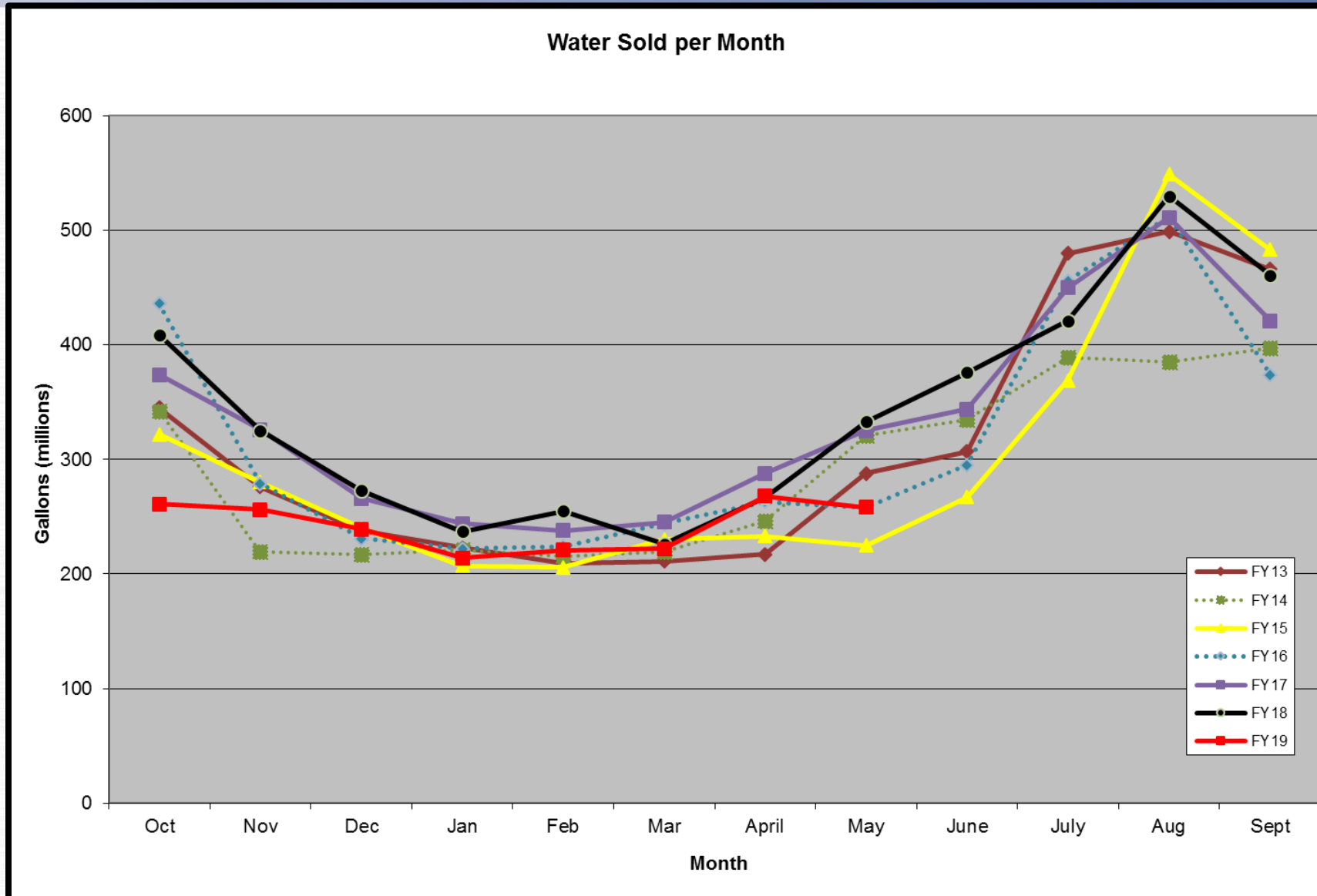
Existing Debt Service



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
2018	8,381	4,949	5,604	2,624	1,118	22,676
Totals	98,914	27,121	34,185	12,186	7,411	179,817

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

- Once projected revenue requirement is fully recovered, we can reduce volumetric rate for Residential first tier to mitigate impact on smaller customers and balance revenue recovery

Proposed Water Fixed Charges

- Implementing Phase 2 would generate an additional \$460,000 per year.
- \$340,000 comes from Residential $\frac{3}{4}$ inch meters



Water

FY18 – Water Revenues

	FY2018 Actual	FY2019 Adopted	FY2019 Projected	FY2020 Proposed	\$Chng/FY19 Adopted	%Chng /FY19
<u>Revenues</u>						
Operating Revenues:						
Water Sales	\$ 13,277,705	\$ 12,600,000	\$ 12,200,000	\$ 12,600,000	\$ -	0.0%
Water Penalties	137,406	132,000	132,000	134,000	2,000	1.5%
Miscellaneous	598,922	516,500	512,500	562,500	46,000	8.9%
<i>Total Operating Revenues</i>	14,014,033	13,248,500	12,844,500	13,296,500	48,000	0.4%
Non-Operating Revenues:						
Interest Income	88,080	65,000	210,050	210,020	145,020	223.1%
Gain (Loss) on Assets	38,077	-	-	-	-	N/A
Water Tap Fees	214,237	135,000	155,000	165,000	30,000	22.2%
Oil & Gas Royalty	84	55	100	100	45	81.8%
Inventory markup	20,603	-	21,000	21,000	21,000	N/A
Miscellaneous non-operating income	57,883	76,000	53,800	53,000	(23,000)	-30.3%
Transfers In	30,000	35,307	35,250	24,480	(10,827)	-30.7%
<i>Total Non-Operating Revenues</i>	448,964	311,362	475,200	473,600	162,238	52.1%
Total Revenues	14,462,997	13,559,862	13,319,700	13,770,100	210,238	1.6%


FY18 – Water Expenses

	FY2018 Actual	FY2019 Adopted	FY2019 Projected	FY2020 Proposed	\$Chng/FY19 Adopted	%Chng /FY19
<u>Expenditures</u>						
Operating Expenses:						
Water Administration	651,968	510,168	758,360	676,587	166,419	32.6%
Water Production	2,383,462	3,009,525	2,801,010	2,987,750	(21,775)	-0.7%
Water Distribution	2,490,664	2,596,665	2,465,320	2,655,800	59,135	2.3%
General & Admin. Reimbursement	512,574	524,125	524,125	507,805	(16,320)	-3.1%
Transfer to Other Funds	66,681	76,312	76,322	72,945	(3,367)	-4.4%
Transfer to BTU	456,141	549,092	549,100	577,752	28,660	5.2%
<i>Total Operating Expenses</i>	6,561,489	7,265,887	7,174,237	7,478,639	212,752	2.9%
Non-Operating Expenses:						
Annual Capital	1,859,127	2,773,500	3,405,200	2,725,000	(48,500)	-1.7%
Right of Way Payments	700,657	662,425	662,425	665,000	2,575	0.4%
Paying Agent Fee	1,224	15,000	15,000	15,000	-	0.0%
Miscellaneous Debt Expense	(3,123)	25,000	25,000	20,000	(5,000)	-20.0%
Debt Service	4,169,538	4,006,538	4,006,538	3,924,261	(82,277)	-2.1%
<i>Total Non-Operating Expenses</i>	6,727,422	7,482,463	8,114,163	7,349,261	(133,202)	-1.8%
Total Expenditures	13,288,912	14,748,350	15,288,400	14,827,900	79,550	0.5%

FY18 – Water Summary

	FY2018 Actual	FY2019 Adopted	FY2019 Projected	FY2020 Proposed
Net Increase/(Decrease)	1,174,085	(1,188,488)	(1,968,700)	(1,057,800)
Beginning Operating Funds	7,006,860	6,339,401	8,044,770	6,076,070
Timing of Cash Flows	(136,175)	-	-	-
Ending Operating Funds	\$ 8,044,770	\$ 5,150,913	\$ 6,076,070	\$ 5,018,270
Reserve Requirement : (Sixty days operating expenses)	\$ 1,093,582	\$ 1,210,981	\$ 1,195,706	\$ 1,246,440

Water Decision Packages



1. Entrance/Exit Gates at MSC	\$15,000
2. Paint overhead doors at MSC	\$5,957
Total	\$20,957

Future Projects

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

- West Side Water Transmission Phase 1: \$1.80 MM (90% complete)
- ASR Pilot Well: \$1.50 MM (under construction)
- Linda Lane: \$0.56 MM (95% complete)
- West 26th: \$0.52 MM (complete)
- South College: \$0.35 MM (complete)
- Paint North Texas Tower: \$0.35 MM (complete)
- Meadow Lane: \$0.30 MM (complete)
- Design HSPS Generator: \$0.22 MM (in design)
- SH47 12-inch Line Extension: \$0.15 MM (Under construction)

FY19: Cash \$2.73 MM

- Land for ASR Project: \$2.73 MM (purchased)

Future Projects

FY20: Debt \$5.00 MM (Cash \$2.725 MM)

- SH47/SH21 18-inch WL: \$5.00 MM (in design)
- Old Hearne Rd Ph 1: \$0.65 MM (in design)
- South Coulter Reconstruct: \$0.60 MM (in design)
- Distribution Lines: \$0.40 MM
- Palasota: \$0.35 MM (in design)
- Paint Inside Luza Tower: \$0.30 MM
- Woodville Rd: \$0.30 MM (in design)
- Mumford Rd Design: \$0.125 MM

FY21: Debt \$15.00 MM (Cash \$2.20 MM)

- ASR Wells: \$15.00 MM
- HSPS Emergency Generator: \$1.30 MM (in design)
- Sulphur Springs: \$0.50 MM (design complete)
- Distribution Lines: \$0.40 MM

Future Projects

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

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

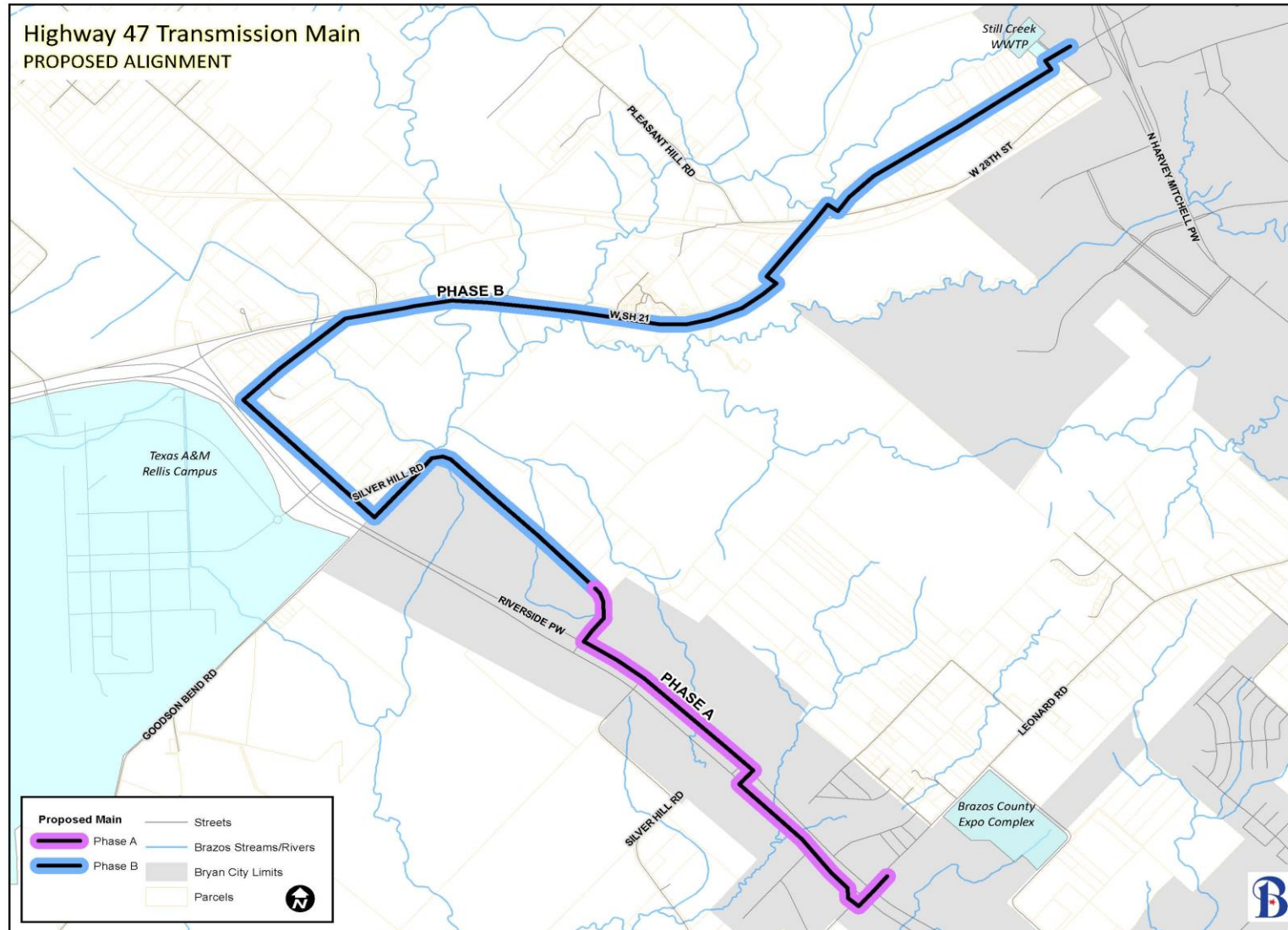
FY23: Cash \$2.00 MM

- Distribution Lines: \$2.00 MM

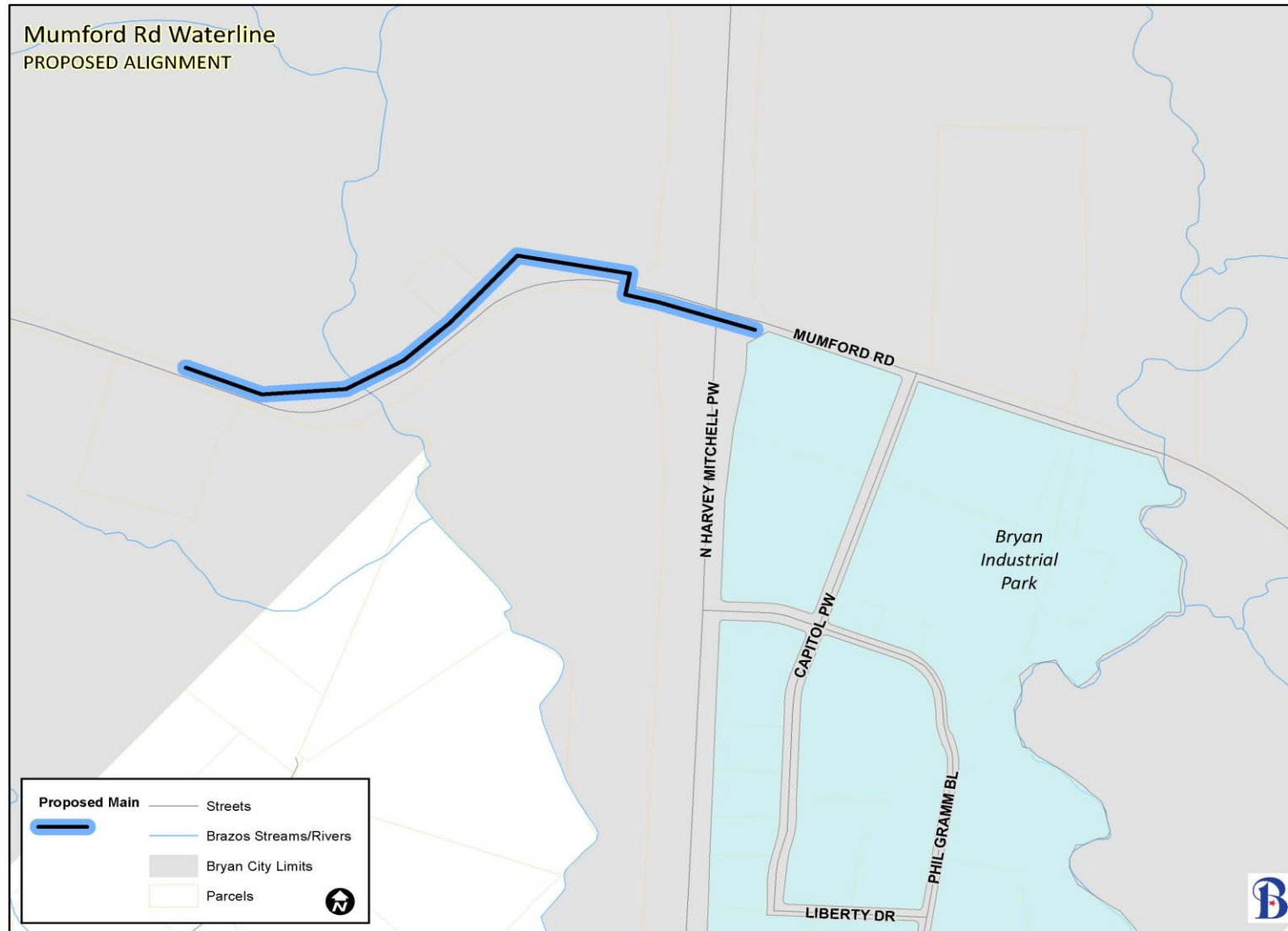
FY24: Cash \$1.50 MM

- Distribution Lines: \$1.50 MM

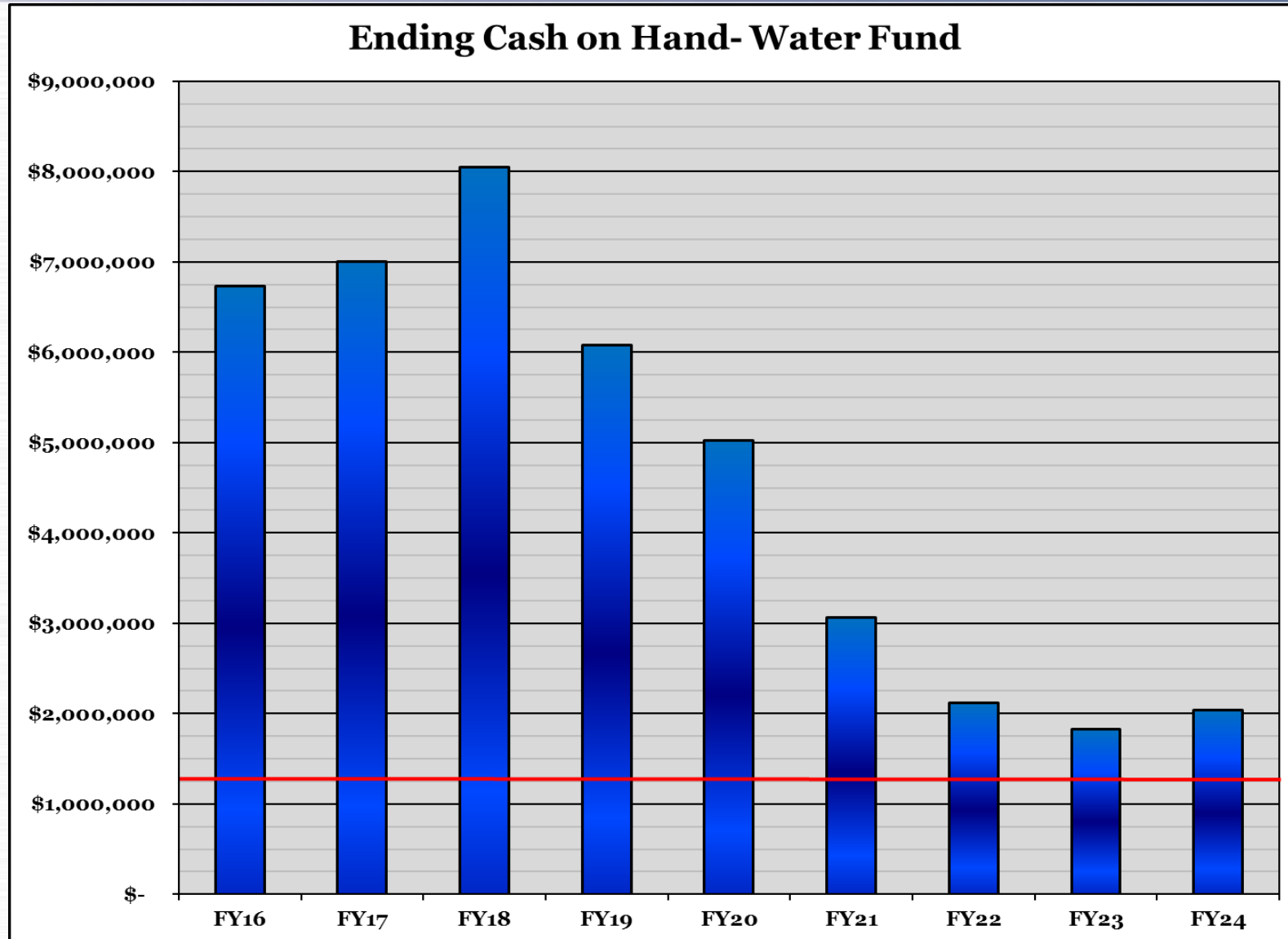
West Side Water Transmission Line



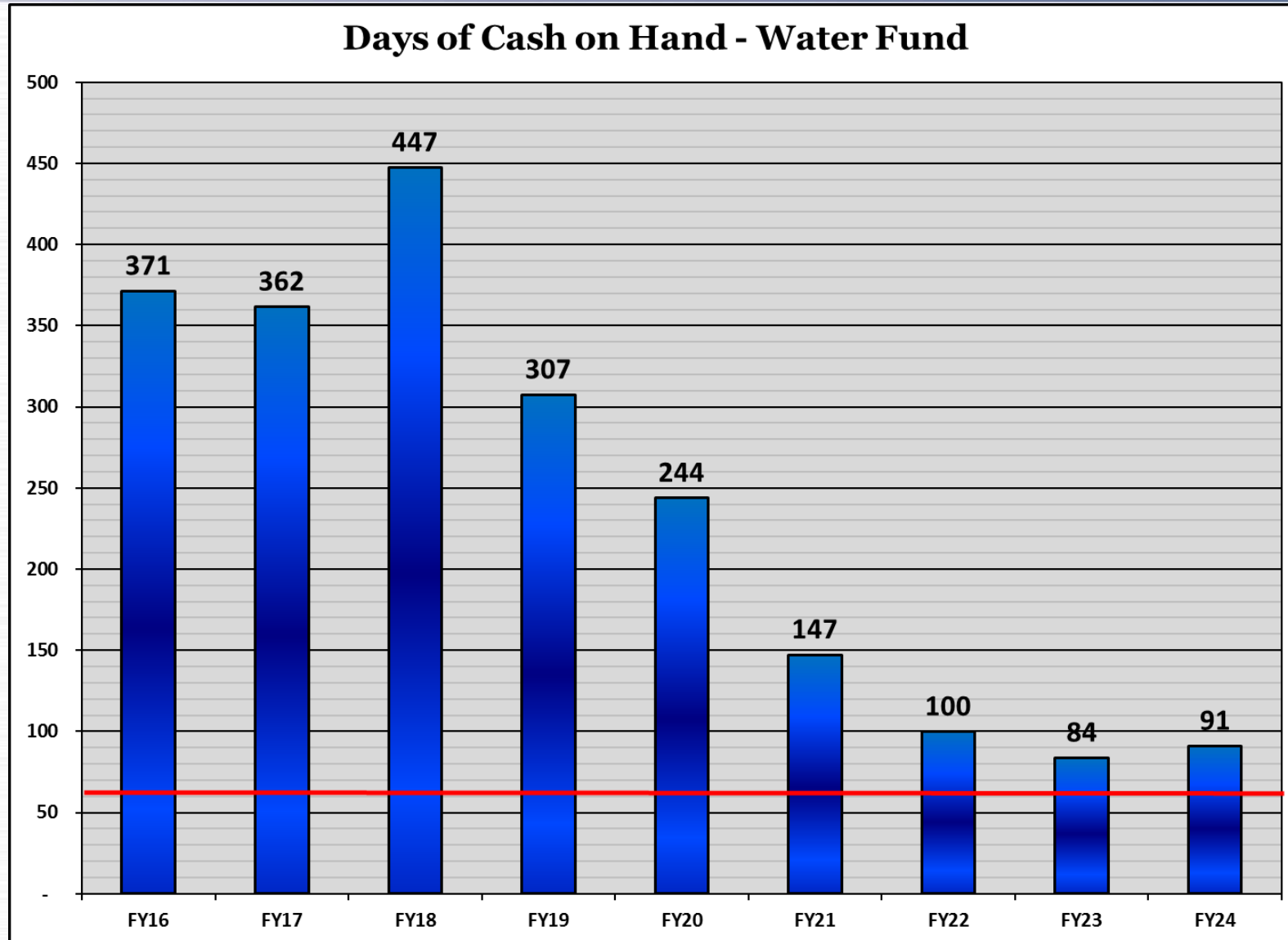
Mumford Rd Water Line



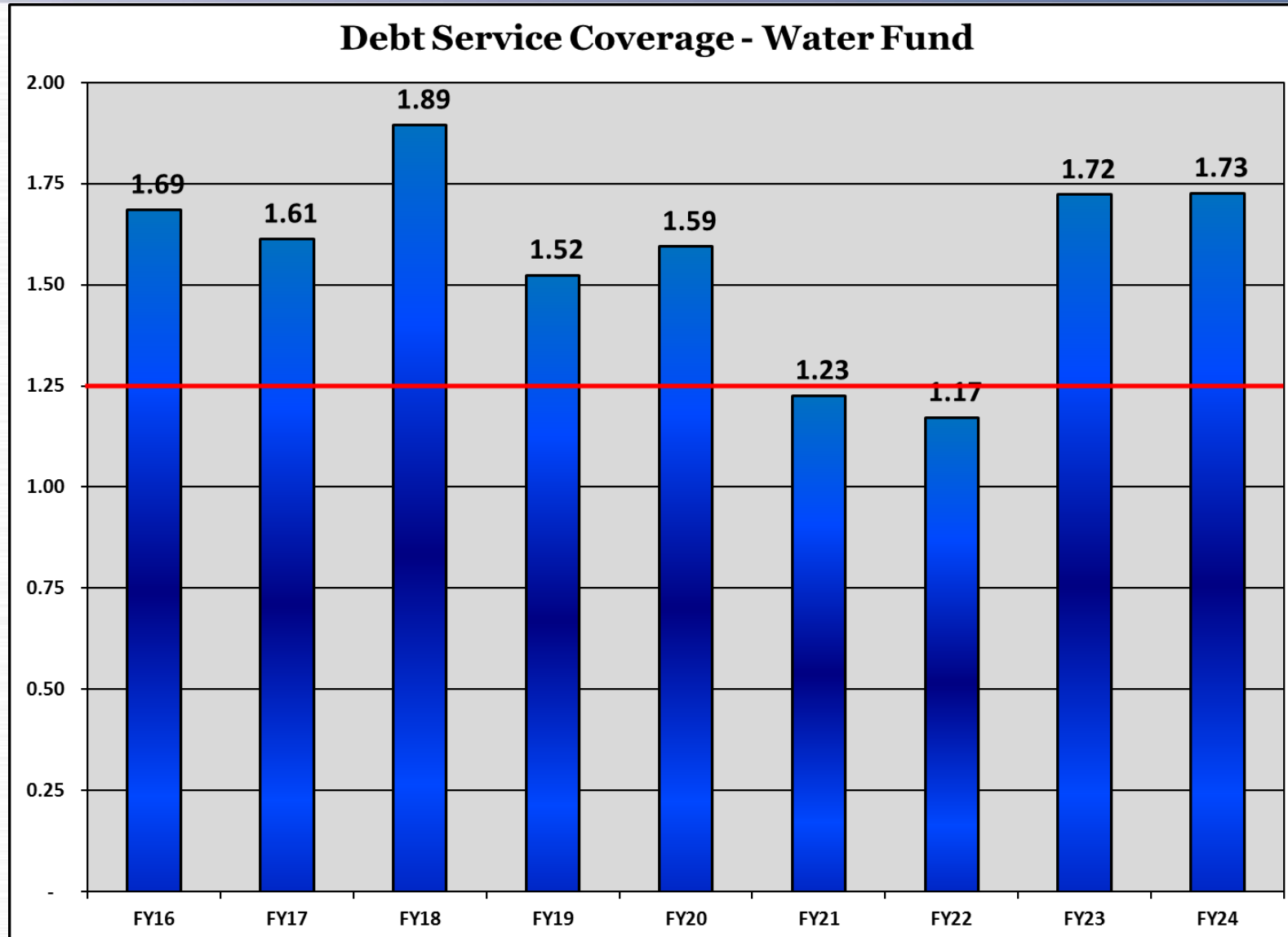
Ending Cash



Days of Cash



Debt Service Coverage





Wastewater

FY18– Wastewater Revenue

	FY2018 Actual	FY2019 Adopted	FY2019 Projected	FY2020 Proposed	\$Chng/FY19 Adopted	%Chng /FY19
<u>Revenues</u>						
Operating Revenues						
Sewer System Revenue	\$ 12,628,738	\$ 12,300,000	\$ 12,320,000	\$ 12,200,000	\$ (100,000)	-0.8%
Sewer Penalties	116,984	124,000	120,280	124,000	-	0.0%
Miscellaneous	7,411	6,300	5,150	5,650	(650)	-10.3%
Pretreatment Fees	512,796	615,000	575,000	585,000	(30,000)	-4.9%
Hauler & Sewer Inspection Fees	\$ 77,568	42,500	62,200	62,200	19,700	46.4%
<i>Total Operating Revenues</i>	13,343,497	13,087,800	13,082,630	12,976,850	(110,950)	-0.8%
Non-Operating Revenues						
Sewer Tap Fees	142,056	95,000	115,140	120,000	25,000	26.3%
Miscellaneous-Non Operating	96,979	29,000	20,250	29,002	2	0.0%
Transfers from Other Funds	282,862	295,933	296,000	268,198	(27,735)	-9.4%
Interest Income	105,179	87,000	224,980	225,050	138,050	158.7%
Gain (Loss) on sale of asset	(23,342)	-	-	-	-	0.0%
<i>Total Non-Operating Revenues</i>	603,734	506,933	656,370	642,250	135,317	26.7%
Total Revenues	13,947,231	13,594,733	13,739,000	13,619,100	24,367	0.2%

FY18 – Wastewater Expenses

	FY2018 Actual	FY2019 Adopted	FY2019 Projected	FY2020 Proposed	\$Chng/FY19 Adopted	%Chng /FY19
<u>Expenditures</u>						
Operating Expenses						
Wastewater Administration	561,473	273,420	418,090	652,736	379,316	138.7%
Wastewater Collection	1,993,548	2,292,575	2,153,220	2,345,530	52,955	2.3%
Wastewater Pre-Treatment	91,495	97,711	96,050	100,260	2,549	2.6%
Wastewater Treatment	2,363,537	2,756,336	2,378,560	2,932,895	176,559	6.4%
Environmental Services	612,010	627,434	624,950	654,100	26,666	4.3%
General & Admin Reimbursement	609,785	618,113	618,113	538,046	(80,067)	-13.0%
Transfer to Other Funds	43,387	47,159	47,197	47,890	731	1.6%
Transfer to BTU	440,371	532,138	532,150	564,722	32,584	6.1%
<i>Total Operating Expenses</i>	6,715,606	7,244,886	6,868,330	7,836,179	591,293	8.2%
Non-Operating Expenses						
Annual Capital	2,342,250	5,768,000	5,915,000	5,543,000	(225,000)	-3.9%
Right of Way Payments	665,462	652,640	652,700	646,000	(6,640)	-1.0%
Paying Agent Fee	1,281	5,000	2,050	5,000	-	0.0%
Bond Sales Expense	(1,889)	-	-	-	-	N/A
Debt Service	3,386,768	3,514,420	3,514,420	3,711,106	196,686	5.6%
<i>Total Non-Operating Expenses</i>	6,393,872	9,940,060	10,084,170	9,905,106	(34,954)	-0.4%
Total Expenditures	13,109,478	17,184,946	16,952,500	17,741,285	556,339	3.2%

FY18 – Wastewater Summary

	FY2018 Actual	FY2019 Adopted	FY2019 Projected	FY2020 Proposed
Net Increase/(Decrease)	837,753	(3,590,213)	(3,213,500)	(4,122,185)
Beginning Operating Funds	10,605,840	7,811,685	11,567,004	8,353,504
Timing of Cash Flows	123,411			
Ending Operating Funds	\$ 11,567,004	\$ 4,221,472	\$ 8,353,504	\$ 4,231,319
Reserve Requirement : (Sixty days operating expenses)	\$ 1,119,268	\$ 1,207,481	\$ 1,144,722	\$ 1,306,030

Decision Packages

1. Replace existing CCTV Van (unit 24-29)	\$185,000
2. Scada software and hardware upgrades	\$170,905
3. Replace existing utility truck (unit 24-46)	\$34,000
4. Replace existing utility truck (unit 24-47)	\$34,000
5. Entrance/Exit Gates at MSC	\$15,000
6. Paint overhead doors at MSC	\$5,957
Total	\$444,862

Future Projects

FY18: Cash \$5.50 MM

- Burton Creek Digester: \$1.00 MM (85% complete)
- Collection Lines: \$1.00 MM (combined with FY19)
- West 26th: \$0.98 MM (complete)
- Eastside Sewer: \$0.70 MM (design with COCS is progressing)
- South College: \$0.54 MM (complete)
- Meadow Lane: \$0.48 MM (complete)
- Design Hwy 47 Sewer: \$0.325 MM (initial study complete)
- SH21 West: \$0.25 MM (complete)
- Still Creek Grease Plant: \$0.225 MM (project not done)

FY19: Cash \$3.275 MM

- Collection Lines: \$1.70 MM (90 % complete)
- East Side WWTP Property: \$1.30 MM (purchase \$1.5 million)
- Greenbrier Sewer: \$0.275 MM (bid)

Future Projects

FY20: Cash \$5.275 MM

- SH47 Lift Station and Trunk Line design: \$1.75 MM
- Woodville Rd: \$0.65 MM (in design)
- I&I Study – Burton Creek basin: \$0.60 MM
- Still Creek WWTP Dumpveyor and Blower: \$0.60 MM
- Old Hearne Ph 1: \$0.50 MM (in design)
- Independence Ave: \$0.50 MM
- South Coulter: \$0.40 MM (in design)
- Palasota \$0.20 MM (in design)
- East Side WWTP Permit: \$0.075 MM

FY21: Cash \$1.90 MM

- Collection Lines: \$1.50 MM
- Sulphur Springs: \$0.40 MM (design complete)

Future Projects

FY22: Debt \$10.0 MM (Cash \$2.00 MM)

- SH47 Lift Station and Trunk Line: \$10.00 MM
- Collection Lines: \$1.00 MM
- I&I Study – Still Creek basin: \$0.50 MM
- Commerce/Holt: \$0.50 MM

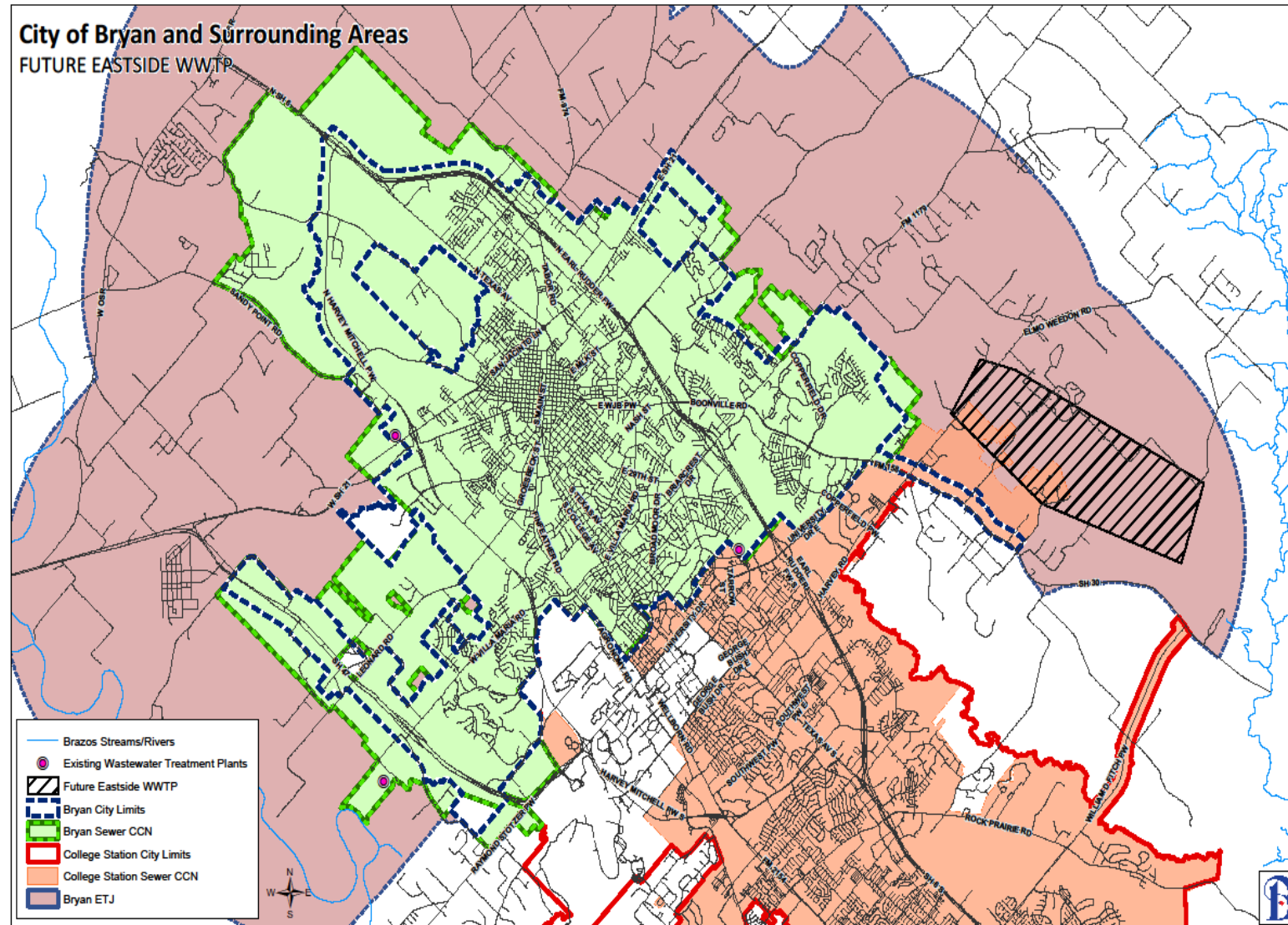
FY23: Cash \$2.00 MM

- Collection Lines: \$2.00 MM

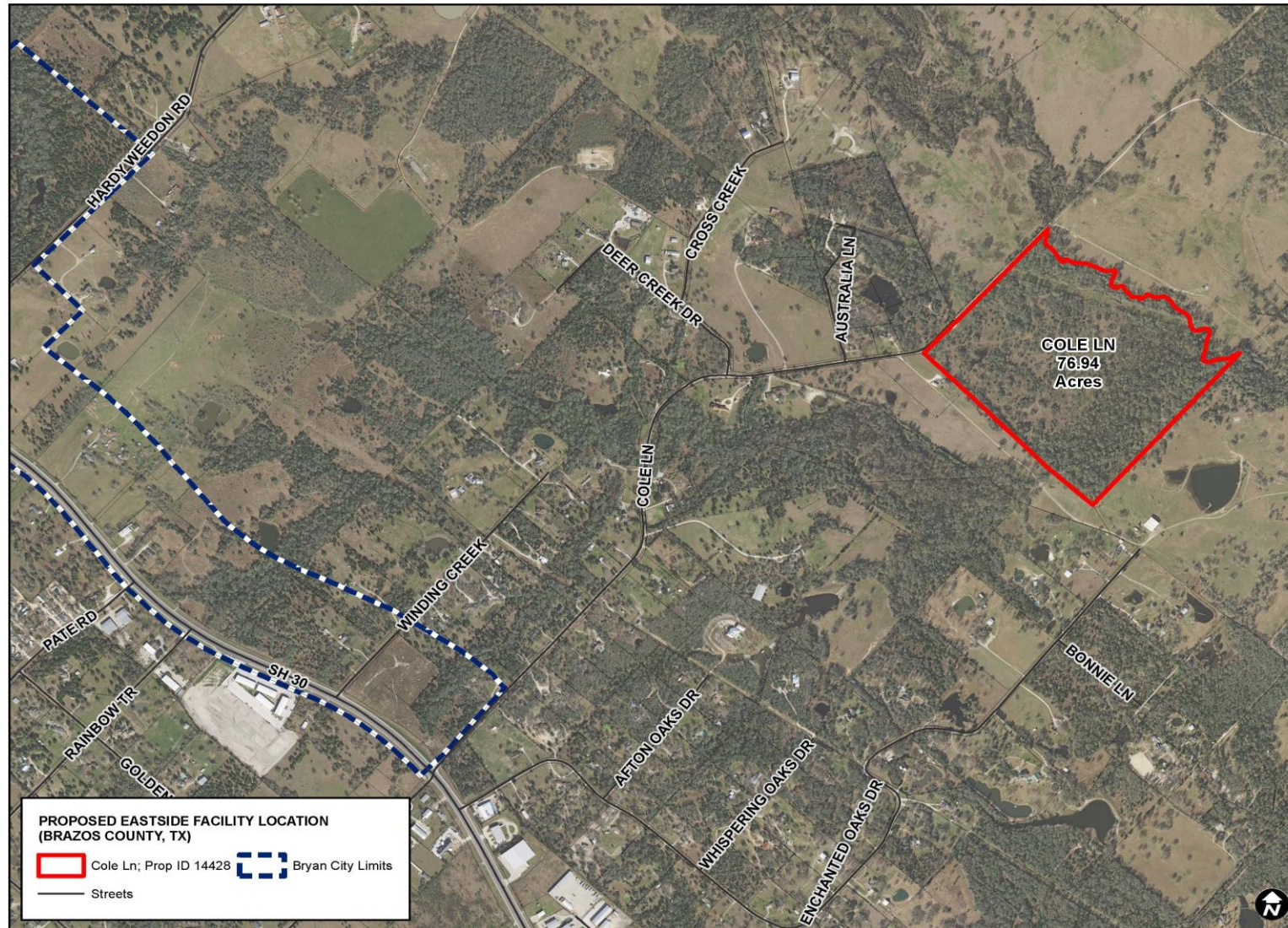
FY24: Cash \$2.00 MM

- Collection Lines: \$1.60 MM
- I&I Study – Thompsons Creek basin: \$0.40 MM

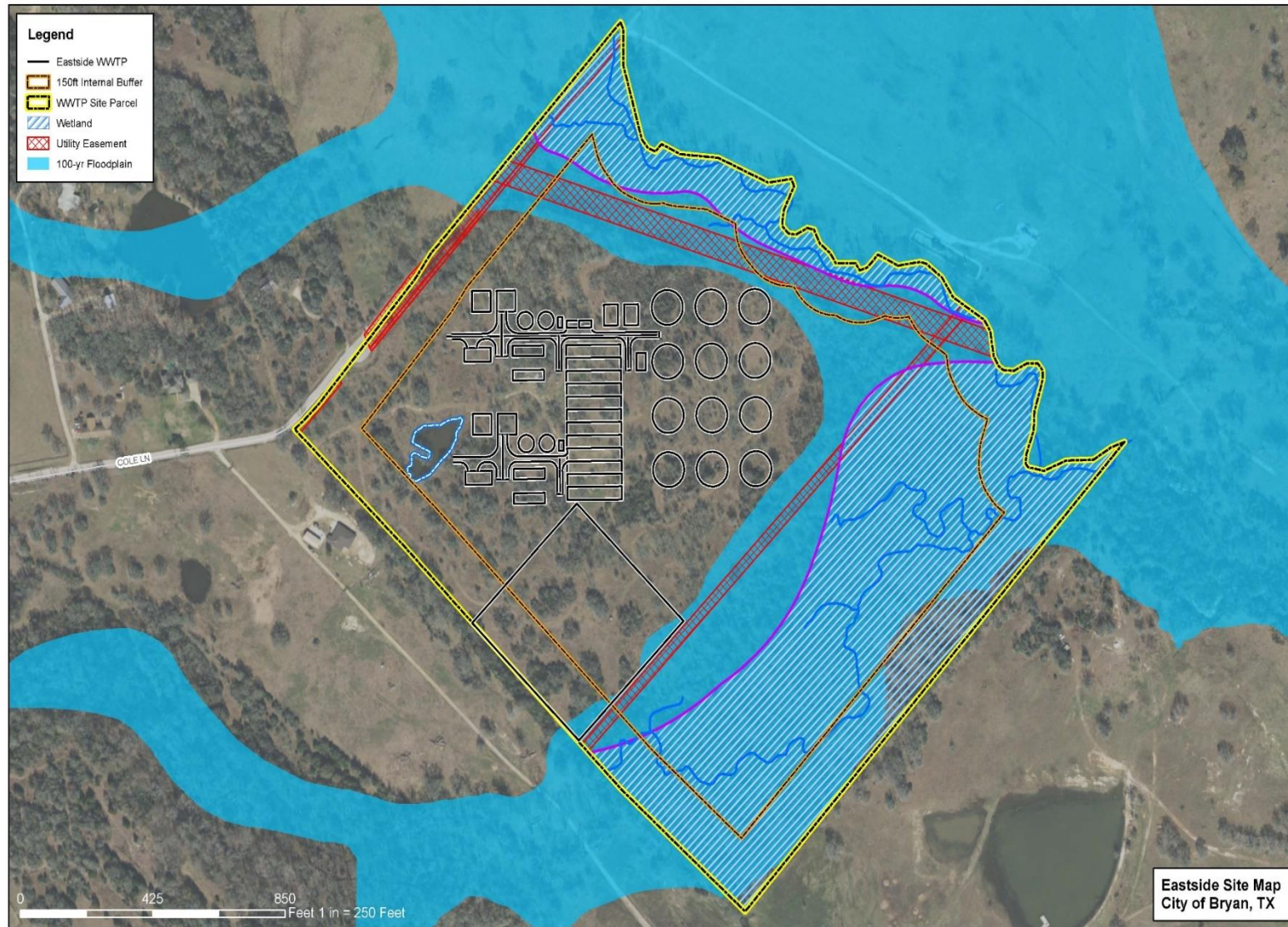
East Side Sewer Improvements



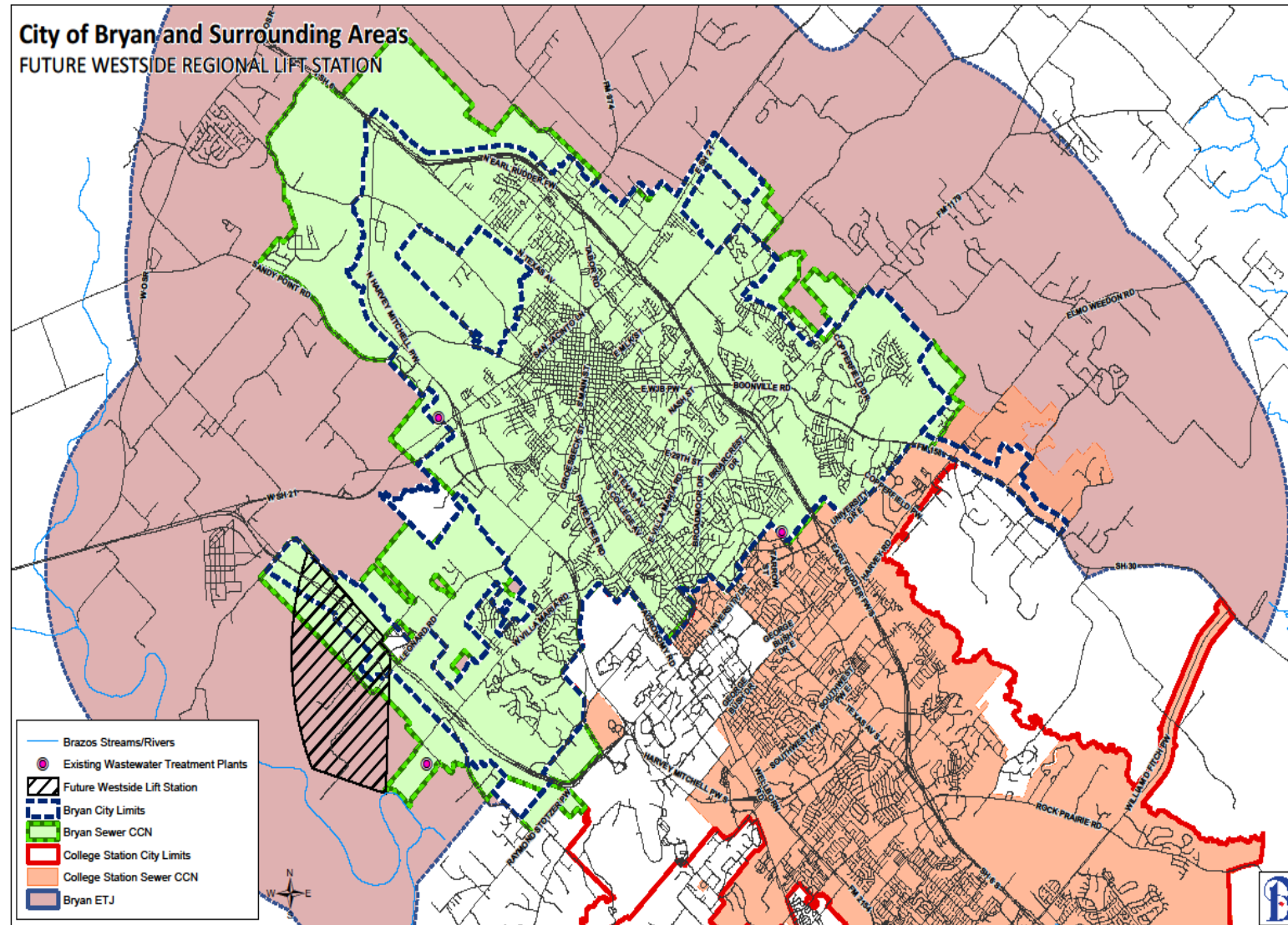
East Side Sewer Improvements



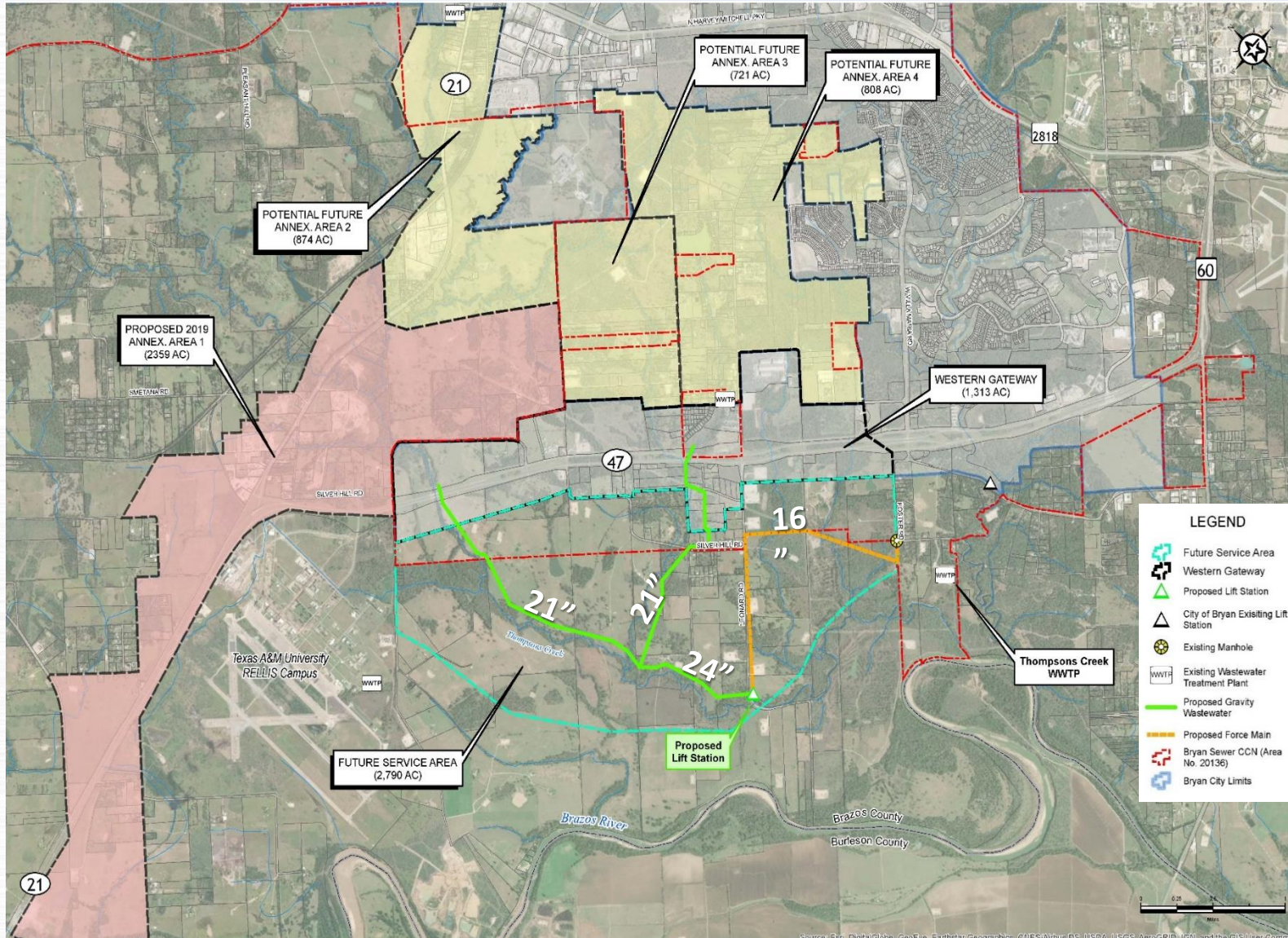
East Side Sewer Improvements



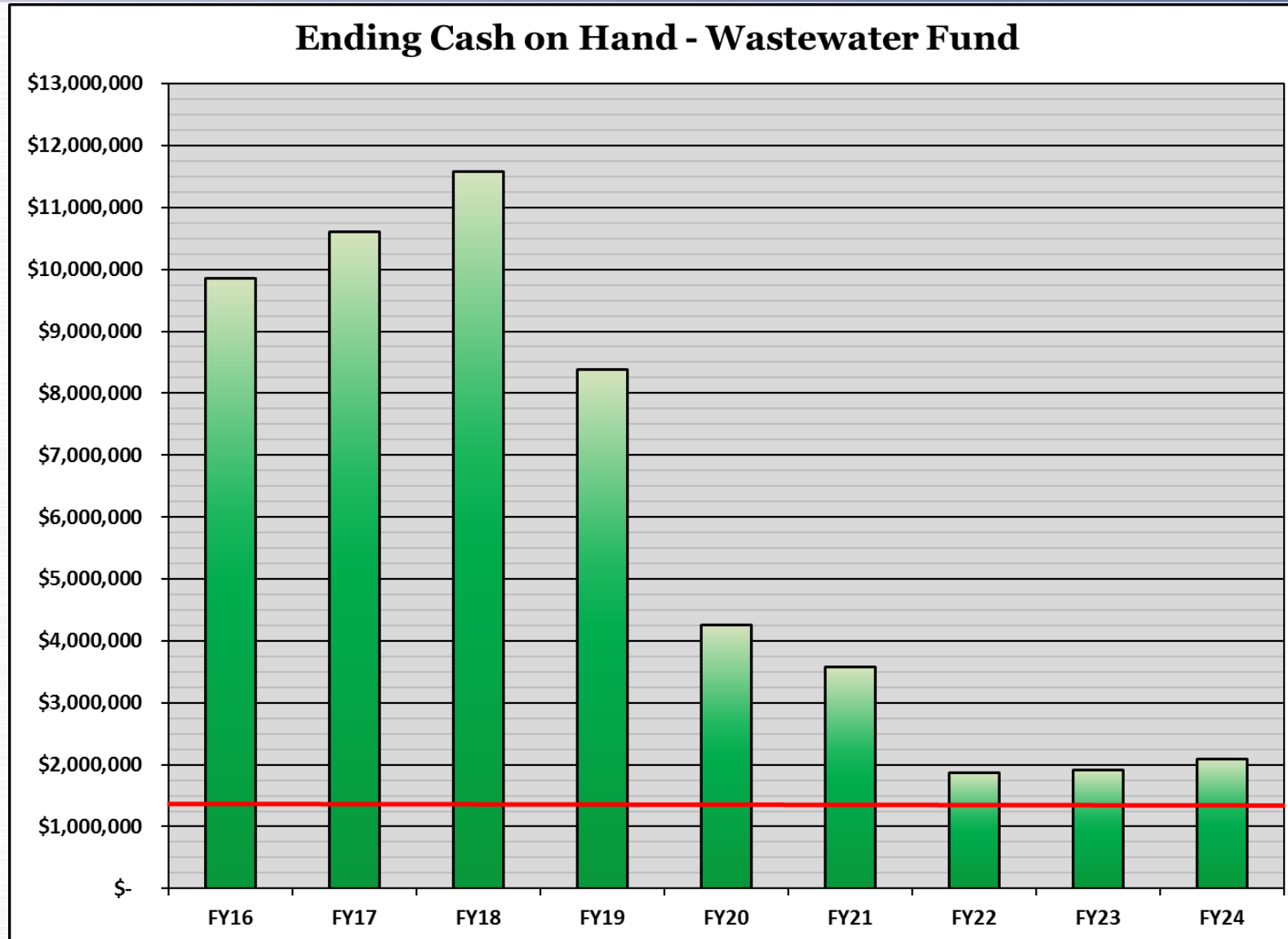
West Side Sewer Improvements



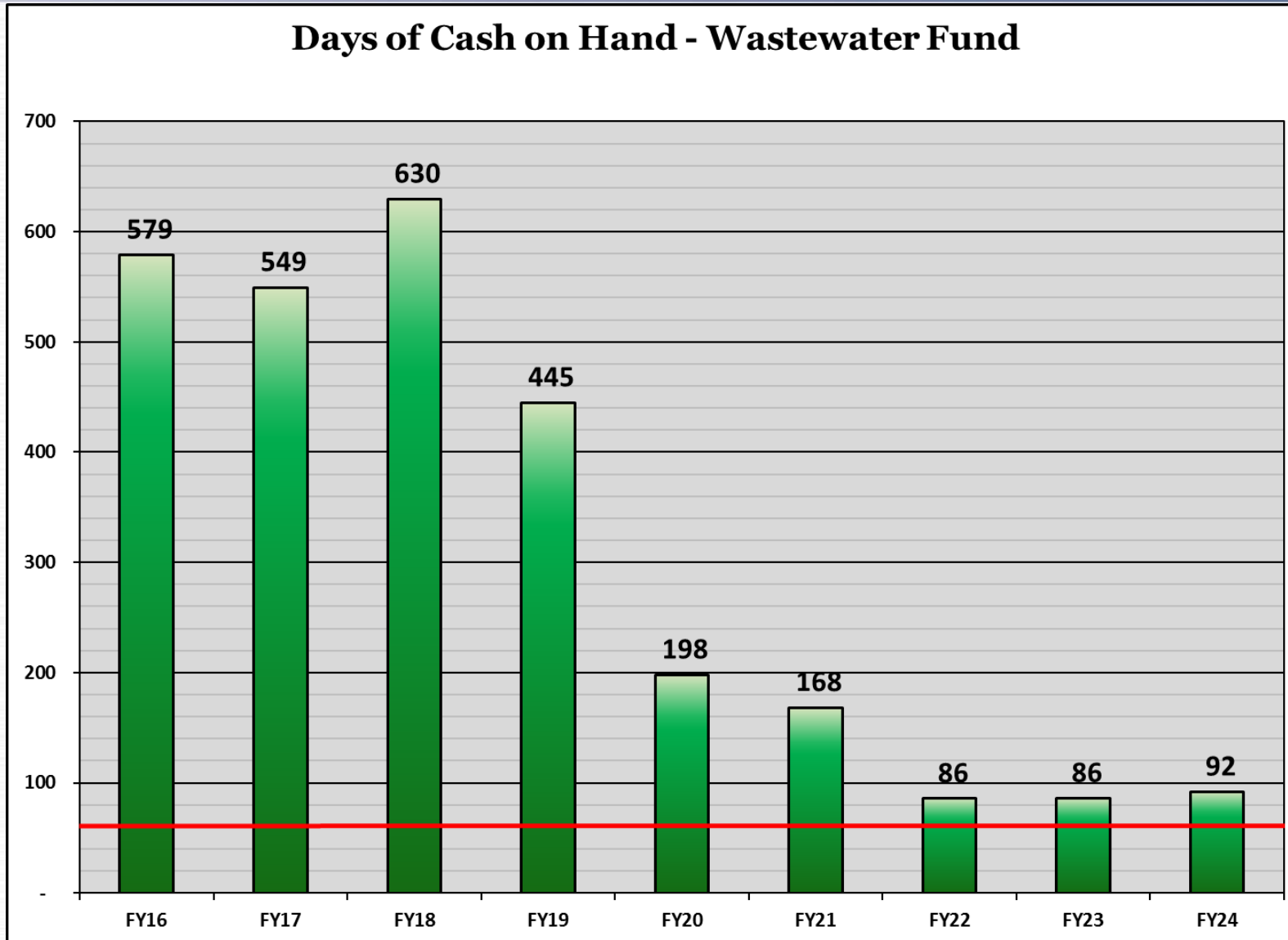
West Side Sewer Improvements



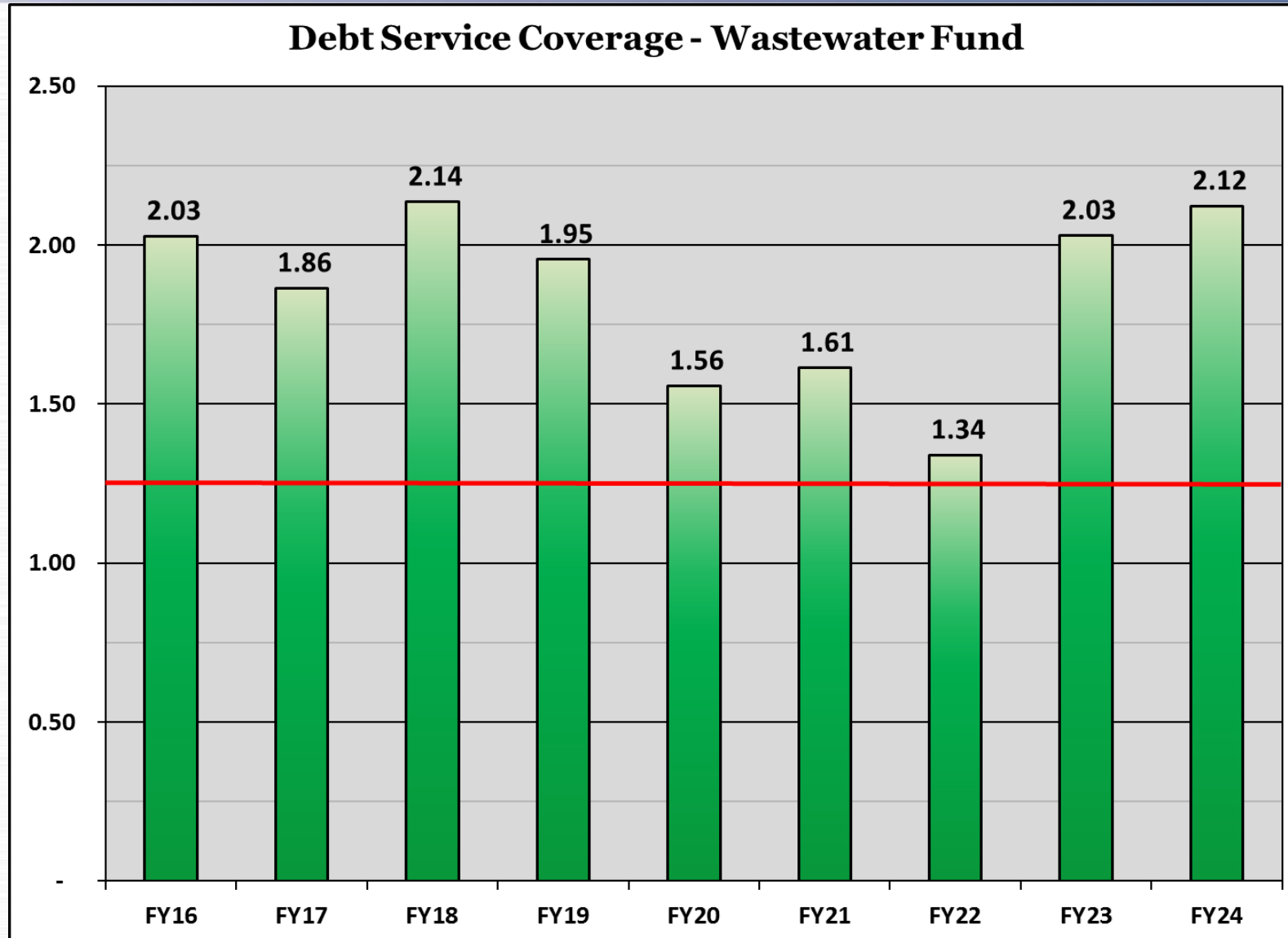
Ending Cash



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**
- Thompsons Creek Wastewater Treatment Plant Expansion
 - \$15 million (15 year window)
- Eastside Wastewater Treatment Plant Expansion
 - \$50-\$75 million (10 year window)
- Water Production ASR Project
 - Second Phase \$15 million (November 2020)

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

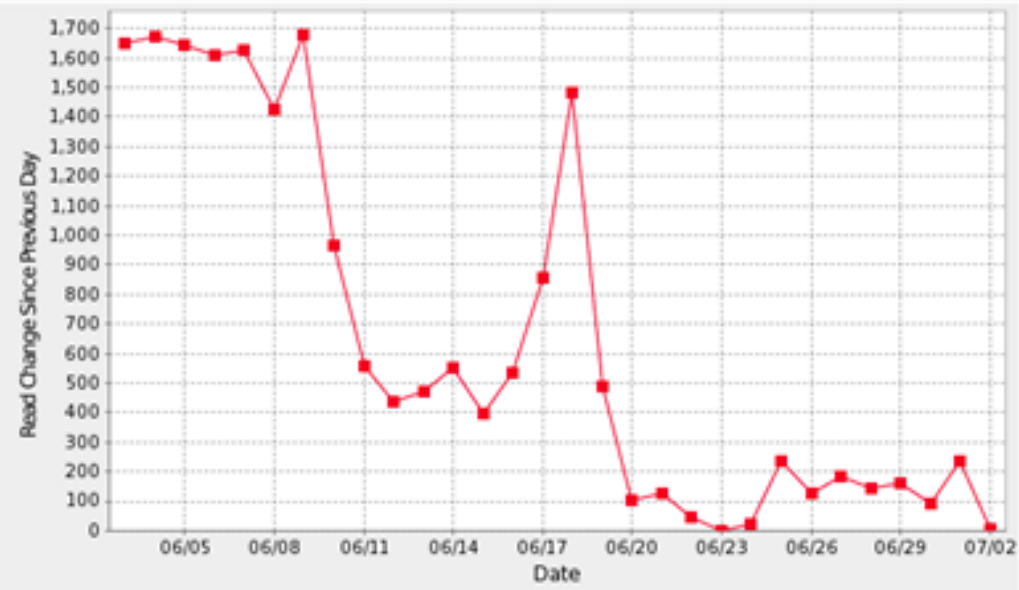
Load Profile

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

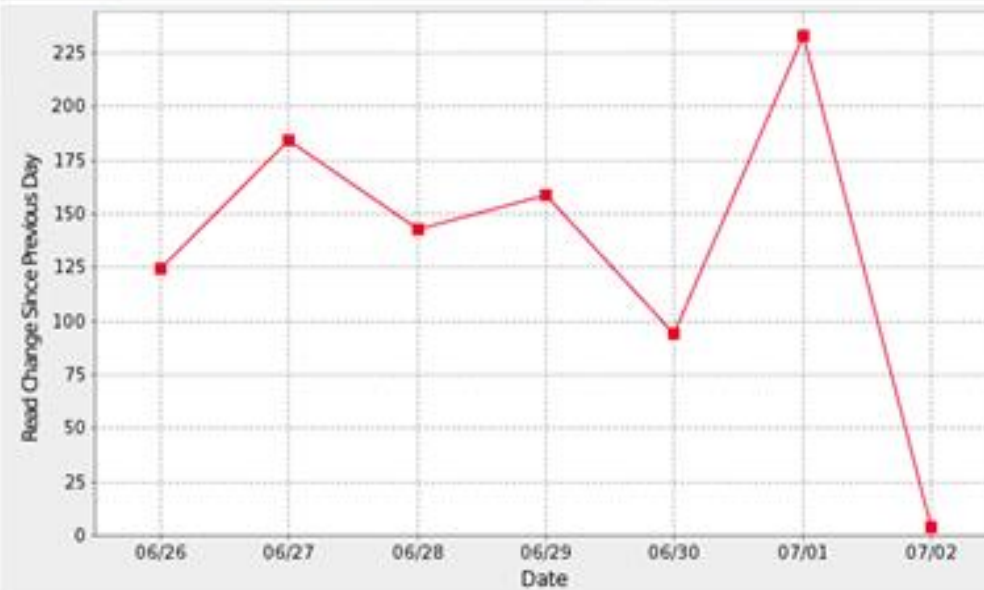
Load Profile

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: ⏪

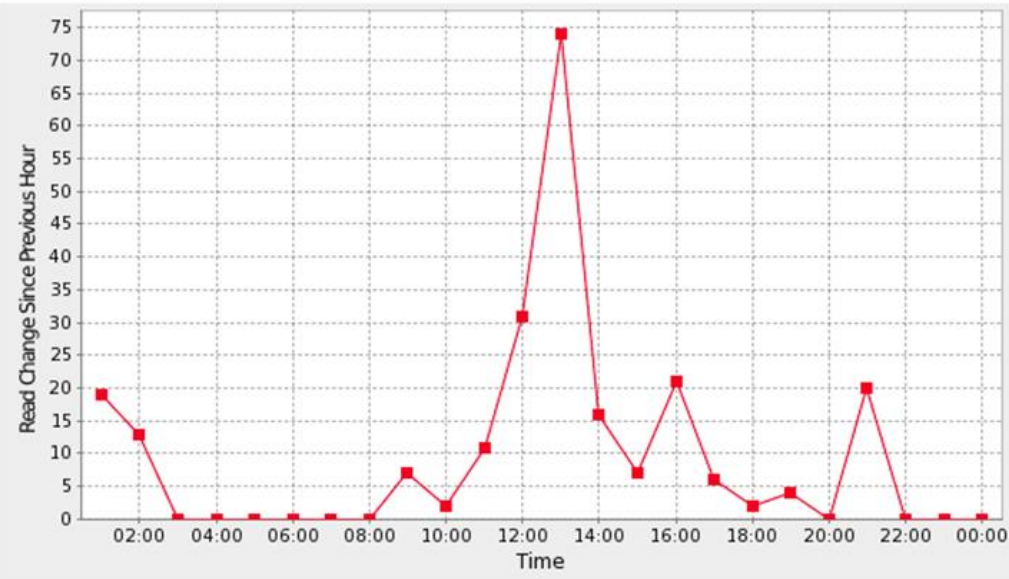
7/1/2018 ▼

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Single Day ▼

▼

Readings Chart ▼



Questions/Direction

