

# Wastewater Rates and Charges Citizen's Advisory Committee

October 4, 2018



Why are we here?



To Learn  
**To Discuss**  
To Recommend

# Parking Lot Items

- **Professional/Technical/Scientific Staff**
- **Capital Improvement Program**

PAVING

# Staffing

# Staffing

- Total Full-time positions: 383
- Professional/Technical/Scientific-313
  - Certified Operators, Certified Technicians, Chemists, Mechanics, Engineers, Electricians, Instrumentation Technicians



# Capital Improvement Program

# Capital Capacity/Expansion Projects 15-Year CIP

## Collection System

- \$154.4M
- 27 miles of new 10" – 48" diameter pipeline
- \$2.5M/Year additional capacity projects- hydraulic modeling and flow monitoring

## Treatment Facilities

- \$505M
- 4 Major Expansion Projects
  - \$440M by 2027
  - FWRC-150 MGD (Phase I)

# Capital Oversizing Projects 15-Year CIP

- **\$29.2M**
- **Development Partnerships**
  - Projected Land Use
  - Hydraulic Modeling



# Capital Rehabilitation/Replacement Projects 15-Year CIP

## Collection System

- \$336.6M
- 45 Miles Replaced
- 12 Miles Relined
- 5 Lift Stations
- \$2.5M/Year-condition assessment based

## Treatment Facilities

- \$203.5M
- Mechanical/Electrical/Process
- \$1M/Year-condition assessment based

# 15-Year CIP Summary

<b>Program Management</b>	<b>\$132,111,525</b>
<b>Professional Services/Engineering Studies</b>	<b>\$19,742,509</b>
<b>3 Studies - 10 Engineering Service</b>	
<b>Oversizing/Interlocal Agreements</b>	<b>\$29,175,357</b>
<b>1 Project – 1 Annual Program</b>	
<b>Small Systems</b>	<b>\$38,187,521</b>
<b>6 Projects</b>	
<b>Reclaimed/Reuse</b>	<b>\$18,126,492</b>
<b>3 Projects</b>	
<b>Treatment Projects</b>	<b>\$689,669,936</b>
<b>32 Projects</b>	
<b>Collection System Projects</b>	<b>\$420,637,187</b>
<b>23 Projects – 3 Annual Programs</b>	
<b>Operations and Maintenance Capital Improvements</b>	<b>\$126,663,910</b>
<b>7 Projects – 3 Annual Programs</b>	
<b>TOTAL</b>	<b>\$1,474,314,437</b>

# Recommendation

- Accept the 15-Year Capital Improvement Program

# Where Have We Been, Where Are We Going?

## MEETING 3

- Looking for the right balance of CASH and more DEBT
- The past 5-Year Expense Average = \$214.7M
- The past 5-year Revenue Average = \$189.2M
- The past 5-year Average Difference = \$ 25.5M
- Current DEBT \$400M
- Funding GAP over the next 10 years = **\$721M**

## TODAY'S MEETING

- Variations of hybrid model-partially debt funded CIP

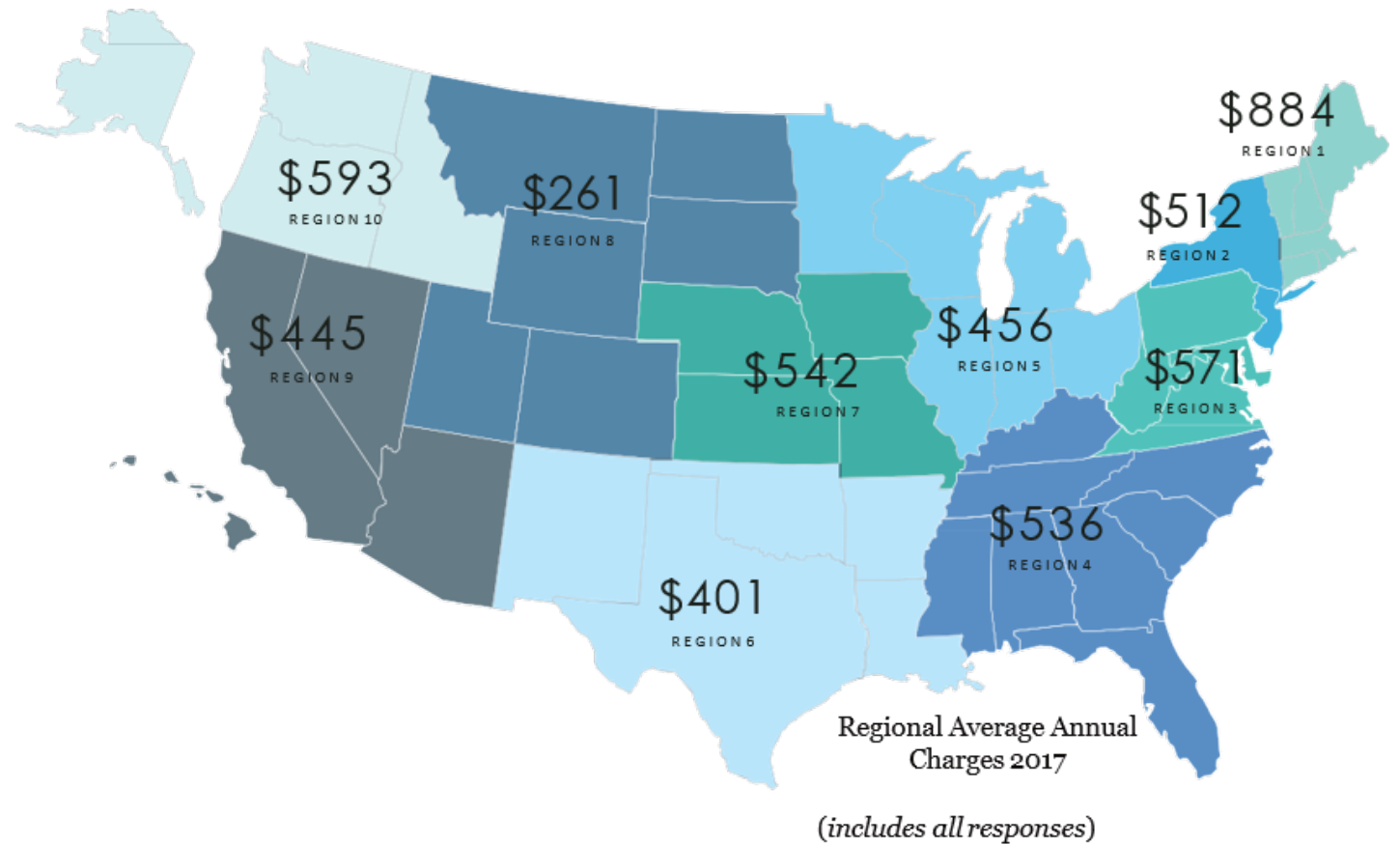
# Rates

# 2017 COST OF CLEAN WATER INDEX

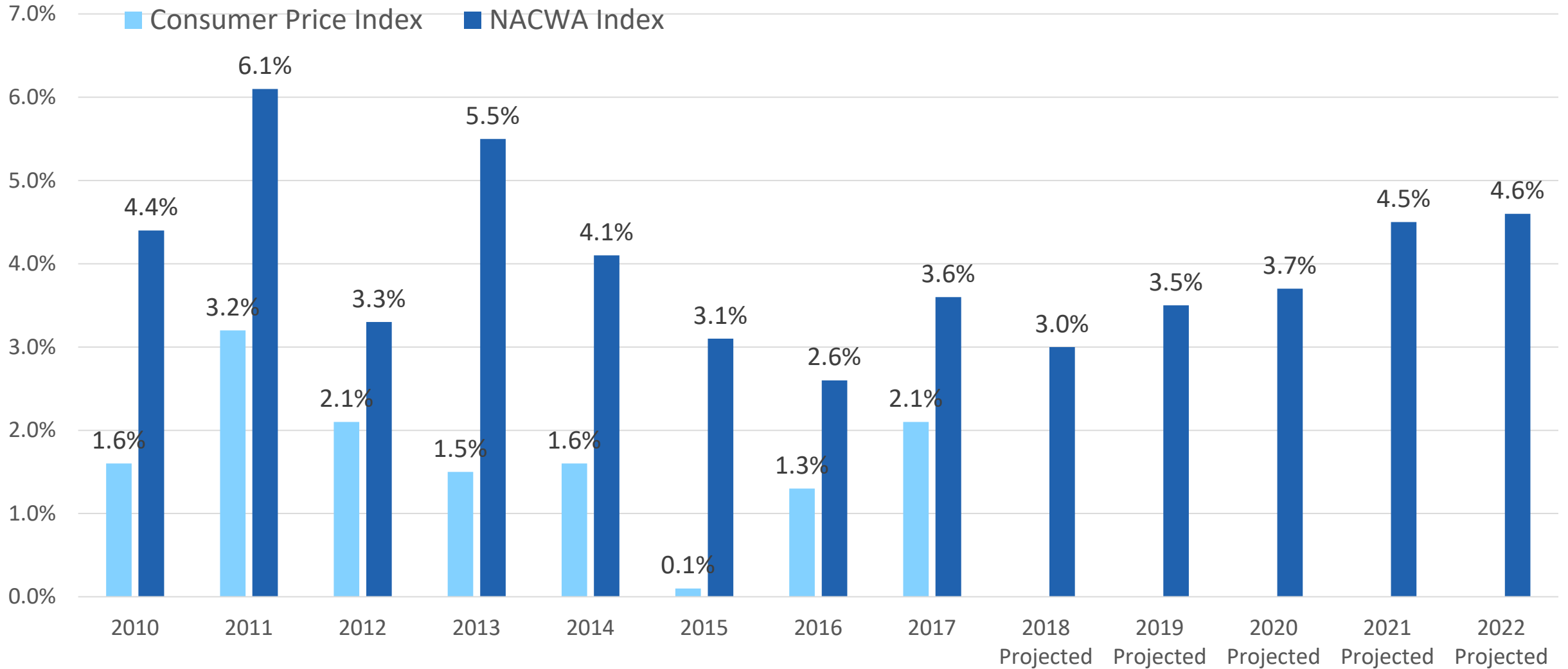


## Region 9

Number of agencies	28
Population (in millions)	22.9
<b>2017 CHARGE</b>	
Average	\$444.71
Median	\$455.84
Minimum	\$221.09
Maximum	\$1,325.04
<b>% CHANGE</b>	
1-year (2016-17)	3.5%
3-year (2014-17)	7.4%
5-year (2012-17)	14.8%



# Annual Cost of Clean Water



**The NACWA Index indicates that the long-term average annual change in residential charges was 4.1% per year from 2010 to 2017, more than double the long-term rate of inflation of 1.7% during the same time period.**

# Statewide Rate Comparison

Agency	Annual Sewer Service Fee	Connection Fee
CCWRD	\$221.09	\$2,195.00
City of Las Vegas	\$249	\$2,167
City of Henderson	\$309	\$1,800
Washoe County	\$425	\$5,550
City of North Las Vegas	\$463	\$1,730
Carson City	\$485	\$2,143
City of Reno	\$526	\$6,376





# Clark County Water Reclamation District

CAC Meeting 4



**Clark County  
Water Reclamation**  
D I S T R I C T

**PFM Financial Advisors LLC and Hobbs, Ong & Associates**

October 4, 2018

---

---

---



## Scenario 3 – Partially Debt Funded CIP (New Base Case)

- ◆ Assumes two issuances of \$200 million for a combined \$400 million in new debt, utilizing a 5% interest rate
- ◆ In order to maintain required reserves and at least 2.0x debt service coverage, the District would need to:
  - A. Increase Rates assuming Sales Tax sunsets after 2025
    - Raise the Connection fee and sewer service charge
      - Connection Fee: \$2,876 in 2020, CPI index in 2021-2032 (2.25% annually)
      - Sewer Service Charge: 4.50% increase FY2020 – 2028
  - B. Increase Rates assuming Sales Tax does not sunset
    - Raise the Connection fee and sewer service charge
      - Connection Fee: \$2,876 in 2020, CPI index in 2021-2032 (2.25% annually)
      - Sewer Service Charge: 3.75% increase FY2020 - 2028



## Scenario 3a – Partially Debt Funded CIP (New Base Case)

Proforma Projections																
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$231.04	\$241.44	\$252.30	\$263.65	\$275.52	\$287.92	\$300.87	\$314.41	\$328.56	\$328.56	\$328.56	\$328.56	\$328.56	
Connection Fee	\$2,195.00	\$2,195.00	\$2,876.00	\$2,940.71	\$3,006.88	\$3,074.53	\$3,143.71	\$3,214.44	\$3,286.77	\$3,360.72	\$3,436.33	\$3,513.65	\$3,592.71	\$3,673.55	\$3,756.20	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 375,916,761	\$ 344,451,485	\$ 471,068,897	\$ 408,226,454	\$ 277,829,253	\$ 383,918,051	\$ 305,524,091	\$ 333,976,938	\$ 243,894,649	\$ 299,252,064	\$ 361,670,928	\$ 368,889,822	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 164,284,110	\$ 176,989,421	\$ 186,924,392	\$ 197,434,537	\$ 208,552,415	\$ 220,316,816	\$ 232,538,960	\$ 245,218,272	\$ 258,607,144	\$ 261,387,036	\$ 264,197,508	\$ 267,038,894	\$ 269,911,536	\$ 3,255,310,673
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 80,059,610	\$ 89,825,621	\$ 93,921,692	\$ 99,921,021	\$ 108,915,792	\$ 117,183,916	\$ 125,784,760	\$ 134,713,172	\$ 144,216,744	\$ 142,971,736	\$ 141,612,908	\$ 140,134,794	\$ 138,532,836	\$ 1,703,546,320
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 23,728,626	\$ 24,577,933	\$ 25,853,653	\$ 27,359,049	\$ 28,338,298	\$ 29,352,596	\$ 29,573,933	\$ 28,200,715	\$ 27,553,772	\$ 28,483,643	\$ 29,444,895	\$ 30,438,586	\$ 31,465,813	\$ 429,950,839
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 166,501,302
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,571,827	\$ 3,336,154	\$ 3,811,915	\$ 4,130,790	\$ 3,164,592	\$ 3,043,050	\$ 3,181,524	\$ 2,931,818	\$ 3,664,463	\$ 4,831,345	\$ 5,989,593	\$ 7,157,986	\$ 8,350,328	\$ 60,783,670
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 47,564,056	\$ 48,582,962	\$ 50,747,821	\$ 52,993,736	\$ 53,436,865	\$ 54,768,301	\$ 32,755,456	\$ 31,132,533	\$ 31,218,236	\$ 33,314,989	\$ 35,434,488	\$ 37,596,572	\$ 39,816,141	\$ 657,235,812
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 127,623,666	\$ 138,408,584	\$ 144,669,513	\$ 152,914,757	\$ 162,352,657	\$ 171,952,217	\$ 158,540,217	\$ 165,845,704	\$ 175,434,979	\$ 176,286,725	\$ 177,047,395	\$ 177,731,366	\$ 178,348,977	\$ 2,360,782,132
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (10,075,750)	\$ (10,075,750)	\$ (10,075,750)	\$ (25,377,500)	\$ (25,236,250)	\$ (25,093,375)	\$ (28,541,500)	\$ (28,385,875)	\$ (28,228,625)	\$ (28,059,250)	\$ (219,149,625)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (42,334,556)	\$ (42,340,806)	\$ (42,335,931)	\$ (57,635,056)	\$ (57,496,306)	\$ (57,358,806)	\$ (60,986,506)	\$ (60,698,180)	\$ (60,401,990)	\$ (57,209,820)	\$ (698,848,117)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 95,373,860	\$ 106,154,027	\$ 112,411,457	\$ 110,580,201	\$ 120,011,851	\$ 129,616,285	\$ 100,905,160	\$ 108,349,398	\$ 118,076,173	\$ 115,300,218	\$ 116,349,216	\$ 117,329,376	\$ 121,139,157	\$ 1,661,934,016
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (15,669,268)	\$ (31,465,276)	\$ 126,617,412	\$ (62,842,443)	\$ (130,397,201)	\$ 106,088,798	\$ (78,393,960)	\$ 28,452,848	\$ (90,082,289)	\$ 55,357,415	\$ 62,418,864	\$ 7,218,894	\$ 54,455,985	\$ 59,870,751
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 375,916,761	\$ 344,451,485	\$ 471,068,897	\$ 408,226,454	\$ 277,829,253	\$ 383,918,051	\$ 305,524,091	\$ 333,976,938	\$ 243,894,649	\$ 299,252,064	\$ 361,670,928	\$ 368,889,822	\$ 423,345,807	
Reserve Requirements	\$ 170,391,974	\$ 174,202,922	\$ 175,161,263	\$ 179,745,047	\$ 200,640,727	\$ 207,124,617	\$ 211,375,699	\$ 228,727,759	\$ 233,877,387	\$ 237,039,517	\$ 242,714,607	\$ 245,603,137	\$ 248,217,300	\$ 251,938,041	\$ 251,977,821	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 127,623,666	\$ 138,408,584	\$ 144,669,513	\$ 152,914,757	\$ 162,352,657	\$ 171,952,217	\$ 158,540,217	\$ 165,845,704	\$ 175,434,979	\$ 176,286,725	\$ 177,047,395	\$ 177,731,366	\$ 178,348,977	
All-in Debt Service Coverage	3.81x	4.20x	3.96x	4.29x	4.48x	3.61x	3.83x	4.06x	2.75x	2.88x	3.06x	2.89x	2.92x	2.94x	3.12x	



## Scenario 3b – New Base Case (Sales Tax Continues)

Proforma Projections																
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$229.38	\$237.98	\$246.91	\$256.17	\$265.77	\$275.74	\$286.08	\$296.81	\$307.94	\$307.94	\$307.94	\$307.94	\$307.94	
Connection Fee	\$2,195.00	\$2,195.00	\$2,876.00	\$2,940.71	\$3,006.88	\$3,074.53	\$3,143.71	\$3,214.44	\$3,286.77	\$3,360.72	\$3,436.33	\$3,513.65	\$3,592.71	\$3,673.55	\$3,756.20	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 374,789,205	\$ 340,882,921	\$ 463,623,433	\$ 395,309,218	\$ 257,672,795	\$ 354,563,177	\$ 287,749,939	\$ 326,116,006	\$ 244,065,329	\$ 307,843,100	\$ 379,082,657	\$ 395,534,456	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 163,162,192	\$ 174,571,894	\$ 183,102,563	\$ 192,064,578	\$ 201,478,562	\$ 211,365,956	\$ 221,535,220	\$ 231,983,156	\$ 242,935,167	\$ 245,546,704	\$ 248,186,968	\$ 250,856,275	\$ 253,554,944	\$ 3,122,253,809
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 78,937,692	\$ 87,408,094	\$ 90,099,863	\$ 94,551,062	\$ 101,841,939	\$ 108,233,056	\$ 114,781,020	\$ 121,478,056	\$ 128,544,767	\$ 127,131,404	\$ 125,602,368	\$ 123,952,175	\$ 122,176,244	\$ 1,570,489,456
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 23,728,626	\$ 24,577,933	\$ 25,853,653	\$ 27,359,049	\$ 28,338,298	\$ 29,352,596	\$ 29,573,933	\$ 28,200,715	\$ 27,553,772	\$ 28,483,643	\$ 29,444,895	\$ 30,438,586	\$ 31,465,813	\$ 429,950,839
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ 22,820,108	\$ 23,276,510	\$ 23,742,040	\$ 24,216,881	\$ 24,701,219	\$ 25,195,243	\$ 25,699,148	\$ 336,152,451
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,566,189	\$ 3,312,674	\$ 3,756,845	\$ 4,028,976	\$ 2,999,223	\$ 2,795,493	\$ 2,945,879	\$ 2,803,643	\$ 3,626,012	\$ 4,875,154	\$ 6,119,606	\$ 7,378,267	\$ 8,665,061	\$ 60,491,308
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 47,558,418	\$ 48,559,482	\$ 50,692,751	\$ 52,891,923	\$ 53,271,496	\$ 54,520,744	\$ 55,339,919	\$ 54,280,868	\$ 54,921,825	\$ 57,575,678	\$ 60,265,720	\$ 63,012,097	\$ 65,830,022	\$ 826,594,598
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 126,496,110	\$ 135,967,576	\$ 140,792,613	\$ 147,442,985	\$ 155,113,435	\$ 162,753,800	\$ 170,120,939	\$ 175,758,924	\$ 183,466,591	\$ 184,707,082	\$ 185,868,088	\$ 186,964,271	\$ 188,006,265	\$ 2,397,084,055
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (10,075,750)	\$ (10,075,750)	\$ (10,075,750)	\$ (25,377,500)	\$ (25,236,250)	\$ (25,093,375)	\$ (28,541,500)	\$ (28,385,875)	\$ (28,228,625)	\$ (28,059,250)	\$ (219,149,625)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (42,334,556)	\$ (42,340,806)	\$ (42,335,931)	\$ (57,635,056)	\$ (57,496,306)	\$ (57,358,806)	\$ (60,986,506)	\$ (60,698,180)	\$ (60,401,990)	\$ (57,209,820)	\$ (698,848,117)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 94,246,304	\$ 103,713,020	\$ 108,534,557	\$ 105,108,429	\$ 112,772,629	\$ 120,417,869	\$ 112,485,883	\$ 118,262,617	\$ 126,107,785	\$ 123,720,575	\$ 125,169,908	\$ 126,562,281	\$ 130,796,446	\$ 1,698,235,938
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (16,796,824)	\$ (33,906,284)	\$ 122,740,513	\$ (68,314,215)	\$ (137,636,423)	\$ 96,890,382	\$ (66,813,238)	\$ 38,366,067	\$ (82,050,677)	\$ 63,777,771	\$ 71,239,557	\$ 16,451,799	\$ 64,113,274	\$ 96,172,674
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 374,789,205	\$ 340,882,921	\$ 463,623,433	\$ 395,309,218	\$ 257,672,795	\$ 354,563,177	\$ 287,749,939	\$ 326,116,006	\$ 244,065,329	\$ 307,843,100	\$ 379,082,657	\$ 395,534,456	\$ 459,647,730	
Reserve Requirements	\$ 170,391,974	\$ 174,202,922	\$ 175,161,263	\$ 179,745,047	\$ 200,640,727	\$ 207,124,617	\$ 211,375,699	\$ 228,727,759	\$ 233,877,387	\$ 237,039,517	\$ 242,714,607	\$ 245,603,137	\$ 248,217,300	\$ 251,938,041	\$ 251,977,821	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 126,496,110	\$ 135,967,576	\$ 140,792,613	\$ 147,442,985	\$ 155,113,435	\$ 162,753,800	\$ 170,120,939	\$ 175,758,924	\$ 159,724,551	\$ 160,490,201	\$ 161,166,869	\$ 161,769,028	\$ 162,307,118	
All-in Debt Service Coverage	3.81x	4.20x	3.92x	4.22x	4.36x	3.48x	3.66x	3.84x	2.95x	3.06x	2.78x	2.63x	2.66x	2.68x	2.84x	



## Scenario 4a – Phase in Connection Fee

- Phase in Connection Fee increase (level over 3 years) + CPI (2.25% beginning in 2023)
- Issuance of \$200M of Debt in 2022 and 2025, for a total of \$400M at a 5% interest rate
- In order to maintain required reserves, the District would need to raise the Sewer Service Charge by 4.65% annually from FY 2020 to FY 2028

Proforma Projections	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$231.37	\$242.13	\$253.39	\$265.17	\$277.50	\$290.41	\$303.91	\$318.04	\$332.83	\$332.83	\$332.83	\$332.83	\$332.83	
Connection Fee	\$2,195.00	\$2,195.00	\$2,422.00	\$2,649.00	\$2,876.00	\$2,940.71	\$3,006.88	\$3,074.53	\$3,143.71	\$3,214.44	\$3,286.77	\$3,360.72	\$3,436.33	\$3,513.65	\$3,592.71	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 372,376,816	\$ 338,911,397	\$ 465,117,340	\$ 402,112,892	\$ 271,865,075	\$ 378,449,701	\$ 300,974,127	\$ 330,885,516	\$ 242,823,064	\$ 300,214,918	\$ 364,681,985	\$ 373,961,952	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 164,507,621	\$ 177,472,740	\$ 187,695,676	\$ 198,523,676	\$ 209,995,629	\$ 222,147,394	\$ 234,794,660	\$ 247,942,472	\$ 261,847,089	\$ 264,661,787	\$ 267,507,446	\$ 270,384,408	\$ 273,293,016	\$ 3,282,683,245
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 80,283,121	\$ 90,308,940	\$ 94,692,976	\$ 101,010,160	\$ 110,359,006	\$ 119,014,494	\$ 128,040,460	\$ 137,437,372	\$ 147,456,689	\$ 146,246,487	\$ 144,922,846	\$ 143,480,308	\$ 141,914,316	\$ 1,730,918,892
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 19,982,869	\$ 22,139,873	\$ 24,728,358	\$ 26,168,231	\$ 27,104,857	\$ 28,075,008	\$ 28,286,710	\$ 26,973,263	\$ 26,354,479	\$ 27,243,876	\$ 28,163,289	\$ 29,113,730	\$ 30,096,245	\$ 410,010,116
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 166,501,302
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,554,127	\$ 3,290,754	\$ 3,754,457	\$ 4,070,464	\$ 3,104,203	\$ 2,985,887	\$ 3,131,432	\$ 2,893,611	\$ 3,643,648	\$ 4,830,802	\$ 6,009,462	\$ 7,198,402	\$ 8,411,415	\$ 60,496,950
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 43,800,600	\$ 46,099,502	\$ 49,565,068	\$ 51,742,592	\$ 52,143,035	\$ 53,433,550	\$ 31,418,143	\$ 29,866,874	\$ 29,998,127	\$ 32,074,678	\$ 34,172,751	\$ 36,312,131	\$ 38,507,660	\$ 637,008,369
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 124,083,721	\$ 136,408,441	\$ 144,258,044	\$ 152,752,752	\$ 162,502,042	\$ 172,448,044	\$ 159,458,603	\$ 167,304,246	\$ 177,454,816	\$ 178,321,165	\$ 179,095,597	\$ 179,792,439	\$ 180,421,976	\$ 2,367,927,261
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (10,075,750)	\$ (10,075,750)	\$ (10,075,750)	\$ (25,377,500)	\$ (25,236,250)	\$ (25,093,375)	\$ (28,541,500)	\$ (28,385,875)	\$ (28,228,625)	\$ (28,059,250)	\$ (219,149,625)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (42,334,556)	\$ (42,340,806)	\$ (42,335,931)	\$ (57,635,056)	\$ (57,496,306)	\$ (57,358,806)	\$ (60,986,506)	\$ (60,698,180)	\$ (60,401,990)	\$ (57,209,820)	\$ (698,848,117)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 91,833,915	\$ 104,153,885	\$ 111,999,987	\$ 110,418,196	\$ 120,161,235	\$ 130,112,113	\$ 101,823,546	\$ 109,807,940	\$ 120,096,010	\$ 117,334,659	\$ 118,397,418	\$ 119,390,449	\$ 123,212,156	\$ 1,669,079,144
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (19,209,213)	\$ (33,465,419)	\$ 126,205,943	\$ (63,004,448)	\$ (130,247,817)	\$ 106,584,625	\$ (77,475,574)	\$ 29,911,390	\$ (88,062,453)	\$ 57,391,855	\$ 64,467,067	\$ 9,279,967	\$ 56,528,984	\$ 67,015,880
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 372,376,816	\$ 338,911,397	\$ 465,117,340	\$ 402,112,892	\$ 271,865,075	\$ 378,449,701	\$ 300,974,127	\$ 330,885,516	\$ 242,823,064	\$ 300,214,918	\$ 364,681,985	\$ 373,961,952	\$ 430,490,936	
Reserve Requirements	\$ 169,091,974	\$ 172,702,922	\$ 173,561,263	\$ 178,345,047	\$ 199,340,727	\$ 205,924,617	\$ 210,175,699	\$ 228,727,759	\$ 233,877,387	\$ 237,039,517	\$ 242,714,607	\$ 245,603,137	\$ 248,217,300	\$ 251,938,041	\$ 251,977,821	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 124,083,721	\$ 136,408,441	\$ 144,258,044	\$ 152,752,752	\$ 162,502,042	\$ 172,448,044	\$ 159,458,603	\$ 167,304,246	\$ 177,454,816	\$ 178,321,165	\$ 179,095,597	\$ 179,792,439	\$ 180,421,976	
All-in Debt Service Coverage	3.81x	4.20x	3.85x	4.23x	4.47x	3.61x	3.84x	4.07x	2.77x	2.91x	3.09x	2.92x	2.95x	2.98x	3.15x	



## Scenario 4b – Phase in Connection Fee (Sales Tax Continues)

- Phase in Connection Fee increase (level over 3 years) + CPI (2.25% beginning in 2023)
- Issuance of \$200M of Debt in 2022 and 2025, for a total of \$400M at a 5% interest rate
- In order to maintain required reserves, the District would need to raise the Sewer Service Charge by 3.95% annually from FY 2020 to FY 2028

Proforma Projections																
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$229.82	\$238.90	\$248.34	\$258.15	\$268.34	\$278.94	\$289.96	\$301.42	\$313.32	\$313.32	\$313.32	\$313.32	\$313.32	
Connection Fee	\$2,195.00	\$2,195.00	\$2,422.00	\$2,649.00	\$2,876.00	\$2,940.71	\$3,006.88	\$3,074.53	\$3,143.71	\$3,214.44	\$3,286.77	\$3,360.72	\$3,436.33	\$3,513.65	\$3,592.71	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 371,324,138	\$ 335,578,814	\$ 458,157,467	\$ 390,023,294	\$ 252,974,742	\$ 350,904,762	\$ 285,667,600	\$ 326,262,412	\$ 247,123,202	\$ 313,845,233	\$ 388,061,286	\$ 407,521,213	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 163,460,207	\$ 175,214,761	\$ 184,119,849	\$ 193,489,198	\$ 203,349,793	\$ 213,724,965	\$ 224,427,221	\$ 235,449,033	\$ 247,029,906	\$ 249,685,430	\$ 252,370,166	\$ 255,084,433	\$ 257,828,557	\$ 3,157,143,150
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 79,235,707	\$ 88,050,961	\$ 91,117,149	\$ 95,975,682	\$ 103,713,170	\$ 110,592,065	\$ 117,673,021	\$ 124,943,933	\$ 132,639,506	\$ 131,270,130	\$ 129,785,566	\$ 128,180,333	\$ 126,449,857	\$ 1,605,378,797
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 19,982,869	\$ 22,139,873	\$ 24,728,358	\$ 26,168,231	\$ 27,104,857	\$ 28,075,008	\$ 28,286,710	\$ 26,973,263	\$ 26,354,479	\$ 27,243,876	\$ 28,163,289	\$ 29,113,730	\$ 30,096,245	\$ 410,010,116
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ 22,820,108	\$ 23,276,510	\$ 23,742,040	\$ 24,216,881	\$ 24,701,219	\$ 25,195,243	\$ 25,699,148	\$ 336,152,451
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,548,864	\$ 3,268,828	\$ 3,702,995	\$ 3,975,217	\$ 2,949,303	\$ 2,753,711	\$ 2,917,175	\$ 2,793,963	\$ 3,642,034	\$ 4,920,454	\$ 6,194,510	\$ 7,483,094	\$ 8,800,124	\$ 60,568,557
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 43,795,336	\$ 46,077,575	\$ 49,513,605	\$ 51,647,345	\$ 51,988,136	\$ 53,201,373	\$ 54,023,993	\$ 53,043,736	\$ 53,738,553	\$ 56,381,212	\$ 59,059,018	\$ 61,792,067	\$ 64,595,517	\$ 806,731,124
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 123,031,043	\$ 134,128,536	\$ 140,630,754	\$ 147,623,027	\$ 155,701,306	\$ 163,793,439	\$ 171,697,015	\$ 177,987,669	\$ 186,378,058	\$ 187,651,342	\$ 188,844,584	\$ 189,972,400	\$ 191,045,374	\$ 2,412,109,921
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (10,075,750)	\$ (10,075,750)	\$ (10,075,750)	\$ (25,377,500)	\$ (25,236,250)	\$ (25,093,375)	\$ (28,541,500)	\$ (28,385,875)	\$ (28,228,625)	\$ (28,059,250)	\$ (219,149,625)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (42,334,556)	\$ (42,340,806)	\$ (42,335,931)	\$ (57,635,056)	\$ (57,496,306)	\$ (57,358,806)	\$ (60,986,506)	\$ (60,698,180)	\$ (60,401,990)	\$ (57,209,820)	\$ (698,848,117)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 90,781,237	\$ 101,873,980	\$ 108,372,698	\$ 105,288,471	\$ 113,360,500	\$ 121,457,507	\$ 114,061,958	\$ 120,491,363	\$ 129,019,252	\$ 126,664,835	\$ 128,146,404	\$ 129,570,410	\$ 133,835,554	\$ 1,713,261,805
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 400,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (20,261,891)	\$ (35,745,324)	\$ 122,578,653	\$ (68,134,173)	\$ (137,048,552)	\$ 97,930,020	\$ (65,237,162)	\$ 40,594,812	\$ (79,139,210)	\$ 66,722,032	\$ 74,216,053	\$ 19,459,928	\$ 67,152,383	\$ 111,198,540
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 371,324,138	\$ 335,578,814	\$ 458,157,467	\$ 390,023,294	\$ 252,974,742	\$ 350,904,762	\$ 285,667,600	\$ 326,262,412	\$ 247,123,202	\$ 313,845,233	\$ 388,061,286	\$ 407,521,213	\$ 474,673,596	
Reserve Requirements	\$ 169,091,974	\$ 172,702,922	\$ 173,561,263	\$ 178,345,047	\$ 199,340,727	\$ 205,924,617	\$ 210,175,699	\$ 228,727,759	\$ 233,877,387	\$ 237,039,517	\$ 242,714,607	\$ 245,603,137	\$ 248,217,300	\$ 251,938,041	\$ 251,977,821	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 123,031,043	\$ 134,128,536	\$ 140,630,754	\$ 147,623,027	\$ 155,701,306	\$ 163,793,439	\$ 171,697,015	\$ 177,987,669	\$ 186,378,058	\$ 187,651,342	\$ 188,844,584	\$ 189,972,400	\$ 191,045,374	\$ 2,412,109,921
All-in Debt Service Coverage	3.81x	4.20x	3.81x	4.16x	4.36x	3.49x	3.68x	3.87x	2.98x	3.10x	2.84x	2.68x	2.70x	2.73x	2.89x	



## Scenario 5a – Optimize Debt

- Phase in Connection Fee increase + CPI (2.25% beginning in 2023)
- Issuance of \$200M of Debt in 2022 and 2025 and \$100M in 2028, for a total of \$500M at a 5% interest rate
- In order to maintain required reserves, the District would need to raise the Sewer Service Charge by 3.40% annually from FY 2020 to FY 2028

Proforma Projections																
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$228.61	\$236.38	\$244.42	\$252.73	\$261.32	\$270.20	\$279.39	\$288.89	\$298.71	\$298.71	\$298.71	\$298.71	\$298.71	
Connection Fee	\$2,195.00	\$2,195.00	\$2,422.00	\$2,649.00	\$2,876.00	\$2,940.71	\$3,006.88	\$3,074.53	\$3,143.71	\$3,214.44	\$3,286.77	\$3,360.72	\$3,436.33	\$3,513.65	\$3,592.71	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 370,500,478	\$ 332,975,734	\$ 251,733,451	\$ 388,750,241	\$ 246,560,134	\$ 337,962,141	\$ 247,004,580	\$ 255,849,305	\$ 242,337,000	\$ 273,601,241	\$ 311,250,905	\$ 293,006,853	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 162,640,665	\$ 173,452,474	\$ 181,344,049	\$ 189,602,896	\$ 198,246,677	\$ 207,293,739	\$ 216,558,959	\$ 226,028,962	\$ 235,921,973	\$ 238,458,171	\$ 241,022,268	\$ 243,614,569	\$ 246,235,387	\$ 3,062,330,418
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 78,416,165	\$ 86,288,674	\$ 88,341,349	\$ 92,089,380	\$ 98,610,054	\$ 104,160,839	\$ 109,804,759	\$ 115,523,862	\$ 121,531,573	\$ 120,042,871	\$ 118,437,668	\$ 116,710,469	\$ 114,856,687	\$ 1,510,566,065
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 19,982,869	\$ 22,139,873	\$ 24,728,358	\$ 26,168,231	\$ 27,104,857	\$ 28,075,008	\$ 28,286,710	\$ 26,973,263	\$ 26,354,479	\$ 27,243,876	\$ 28,163,289	\$ 29,113,730	\$ 30,096,245	\$ 410,010,116
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 166,501,302
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,544,746	\$ 3,251,694	\$ 2,657,859	\$ 2,936,732	\$ 2,910,865	\$ 2,656,925	\$ 2,659,147	\$ 2,248,583	\$ 2,766,037	\$ 3,695,303	\$ 4,609,238	\$ 5,526,471	\$ 6,460,628	\$ 49,542,511
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 43,791,218	\$ 46,060,442	\$ 48,468,470	\$ 50,608,860	\$ 51,949,698	\$ 53,104,587	\$ 30,945,857	\$ 29,221,845	\$ 29,120,516	\$ 30,939,180	\$ 32,772,528	\$ 34,640,200	\$ 36,556,873	\$ 626,053,930
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 122,207,383	\$ 132,349,116	\$ 136,809,818	\$ 142,698,240	\$ 150,559,751	\$ 157,265,426	\$ 140,750,616	\$ 144,745,707	\$ 150,652,088	\$ 150,982,051	\$ 151,210,195	\$ 151,350,670	\$ 151,413,560	\$ 2,136,619,996
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (10,075,750)	\$ (10,075,750)	\$ (20,151,500)	\$ (23,744,375)	\$ (23,740,500)	\$ (27,330,000)	\$ (27,317,875)	\$ (27,310,875)	\$ (27,298,000)	\$ (197,044,625)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (42,340,806)	\$ (42,335,931)	\$ (52,409,056)	\$ (56,004,431)	\$ (56,005,931)	\$ (59,775,006)	\$ (59,630,180)	\$ (59,484,240)	\$ (56,448,570)	\$ (676,743,117)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 89,957,577	\$ 100,094,559	\$ 104,551,762	\$ 110,439,433	\$ 108,218,945	\$ 114,929,494	\$ 88,341,560	\$ 88,741,276	\$ 94,646,157	\$ 91,207,044	\$ 91,580,016	\$ 91,866,430	\$ 94,964,990	\$ 1,459,876,879
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000,000	\$ -	\$ 200,000,000	\$ -	\$ -	\$ 100,000,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (21,085,551)	\$ (37,524,744)	\$ (81,242,282)	\$ 137,016,789	\$ (142,190,107)	\$ 91,402,007	\$ (90,957,560)	\$ 8,844,725	\$ (13,512,305)	\$ 31,264,240	\$ 37,649,664	\$ (18,244,052)	\$ 28,281,818	\$ (42,186,385)
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 370,500,478	\$ 332,975,734	\$ 251,733,451	\$ 388,750,241	\$ 246,560,134	\$ 337,962,141	\$ 247,004,580	\$ 255,849,305	\$ 242,337,000	\$ 273,601,241	\$ 311,250,905	\$ 293,006,853	\$ 321,288,671	
Reserve Requirements	\$ 169,091,974	\$ 172,702,922	\$ 173,561,263	\$ 178,345,047	\$ 184,038,977	\$ 204,291,492	\$ 208,542,574	\$ 227,516,259	\$ 232,665,887	\$ 235,828,017	\$ 241,503,107	\$ 244,391,637	\$ 247,149,300	\$ 251,020,291	\$ 251,216,571	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 122,207,383	\$ 132,349,116	\$ 136,809,818	\$ 142,698,240	\$ 150,559,751	\$ 157,265,426	\$ 140,750,616	\$ 144,745,707	\$ 150,652,088	\$ 150,982,051	\$ 151,210,195	\$ 151,350,670	\$ 151,413,560	
All-in Debt Service Coverage	3.81x	4.20x	3.79x	4.10x	4.24x	4.42x	3.56x	3.71x	2.69x	2.58x	2.69x	2.53x	2.54x	2.54x	2.68x	



## Scenario 5b – Optimize Debt (Sales Tax Continues)

- Phase in Connection Fee increase + CPI (2.25% beginning in 2023)
- Issuance of \$200M of Debt in 2022 and 2025 and \$100M in 2028, for a total of \$500M at a 5% interest rate
- In order to maintain required reserves, the District would need to raise the Sewer Service Charge by 2.75% annually from FY 2020 to FY 2028

Proforma Projections																
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$227.17	\$233.42	\$239.84	\$246.43	\$253.21	\$260.17	\$267.33	\$274.68	\$282.23	\$282.23	\$282.23	\$282.23	\$282.23	
Connection Fee	\$2,195.00	\$2,195.00	\$2,422.00	\$2,649.00	\$2,876.00	\$2,940.71	\$3,006.88	\$3,074.53	\$3,143.71	\$3,214.44	\$3,286.77	\$3,360.72	\$3,436.33	\$3,513.65	\$3,592.71	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 369,522,678	\$ 329,907,486	\$ 245,375,098	\$ 377,793,973	\$ 229,579,918	\$ 313,403,114	\$ 236,115,392	\$ 257,505,038	\$ 255,282,782	\$ 298,292,540	\$ 348,155,828	\$ 342,606,438	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 161,667,755	\$ 171,382,257	\$ 178,101,075	\$ 185,091,555	\$ 192,362,411	\$ 199,922,624	\$ 207,585,930	\$ 215,343,540	\$ 223,396,974	\$ 225,798,623	\$ 228,226,691	\$ 230,681,467	\$ 233,163,246	\$ 2,954,633,778
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 77,443,255	\$ 84,218,457	\$ 85,098,375	\$ 87,578,039	\$ 92,725,788	\$ 96,789,724	\$ 100,831,730	\$ 104,838,440	\$ 109,006,574	\$ 107,383,323	\$ 105,642,091	\$ 103,777,367	\$ 101,784,546	\$ 1,402,869,425
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 19,982,869	\$ 22,139,873	\$ 24,728,358	\$ 26,168,231	\$ 27,104,857	\$ 28,075,008	\$ 28,286,710	\$ 26,973,263	\$ 26,354,479	\$ 27,243,876	\$ 28,163,289	\$ 29,113,730	\$ 30,096,245	\$ 410,010,116
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ 22,820,108	\$ 23,276,510	\$ 23,742,040	\$ 24,216,881	\$ 24,701,219	\$ 25,195,243	\$ 25,699,148	\$ 336,152,451
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,539,857	\$ 3,231,464	\$ 2,610,726	\$ 2,850,159	\$ 2,771,183	\$ 2,449,228	\$ 2,481,906	\$ 2,202,415	\$ 2,839,045	\$ 3,883,488	\$ 4,917,219	\$ 5,958,993	\$ 7,022,568	\$ 50,376,536
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 43,786,329	\$ 46,040,211	\$ 48,421,337	\$ 50,522,287	\$ 51,810,015	\$ 52,896,891	\$ 53,588,724	\$ 52,452,188	\$ 52,935,564	\$ 55,344,246	\$ 57,781,727	\$ 60,267,966	\$ 62,817,962	\$ 796,539,103
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 121,229,584	\$ 130,258,668	\$ 133,519,712	\$ 138,100,326	\$ 144,535,803	\$ 149,686,615	\$ 154,420,454	\$ 157,290,628	\$ 161,942,137	\$ 162,727,569	\$ 163,423,818	\$ 164,045,333	\$ 164,602,507	\$ 2,199,408,529
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (10,075,750)	\$ (10,075,750)	\$ (20,151,500)	\$ (23,744,375)	\$ (23,740,500)	\$ (27,330,000)	\$ (27,317,875)	\$ (27,310,875)	\$ (27,298,000)	\$ (197,044,625)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (42,340,806)	\$ (42,335,931)	\$ (52,409,056)	\$ (56,004,431)	\$ (56,005,931)	\$ (59,775,006)	\$ (59,630,180)	\$ (59,484,240)	\$ (56,448,570)	\$ (676,743,117)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 88,979,777	\$ 98,004,112	\$ 101,261,656	\$ 105,841,519	\$ 102,194,996	\$ 107,350,684	\$ 102,011,398	\$ 101,286,197	\$ 105,936,206	\$ 102,952,563	\$ 103,793,638	\$ 104,561,093	\$ 108,153,937	\$ 1,522,665,412
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000,000	\$ -	\$ 200,000,000	\$ -	\$ -	\$ 100,000,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (22,063,351)	\$ (39,615,192)	\$ (84,532,389)	\$ 132,418,875	\$ (148,214,055)	\$ 83,823,197	\$ (77,287,723)	\$ 21,389,646	\$ (2,222,256)	\$ 43,009,759	\$ 49,863,287	\$ (5,549,389)	\$ 41,470,766	\$ 20,602,148
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 369,522,678	\$ 329,907,486	\$ 245,375,098	\$ 377,793,973	\$ 229,579,918	\$ 313,403,114	\$ 236,115,392	\$ 257,505,038	\$ 255,282,782	\$ 298,292,540	\$ 348,155,828	\$ 342,606,438	\$ 384,077,204	
Reserve Requirements	\$ 169,091,974	\$ 172,702,922	\$ 173,561,263	\$ 178,345,047	\$ 184,038,977	\$ 204,291,492	\$ 208,542,574	\$ 227,516,259	\$ 232,665,887	\$ 235,828,017	\$ 241,503,107	\$ 244,391,637	\$ 247,149,300	\$ 251,020,291	\$ 251,216,571	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 121,229,584	\$ 130,258,668	\$ 133,519,712	\$ 138,100,326	\$ 144,535,803	\$ 149,686,615	\$ 154,420,454	\$ 157,290,628	\$ 138,200,097	\$ 138,510,688	\$ 138,722,599	\$ 138,850,090	\$ 138,903,359	
All-in Debt Service Coverage	3.81x	4.20x	3.76x	4.04x	4.14x	4.28x	3.41x	3.54x	2.95x	2.81x	2.47x	2.32x	2.33x	2.33x	2.46x	





## Scenario 6a – 5% increases with debt

- Assumes Sewer Service Charge and Connection Fees grow at 5% annually (FY 2020-2028)
- Debt issuances to fill in periods of limited fund balance
- In order to maintain required reserves, the District would need to issue a total of \$375 million of debt between FY 2022 and FY 2027

Proforma Projections																
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$232.14	\$243.75	\$255.94	\$268.74	\$282.17	\$296.28	\$311.10	\$326.65	\$342.98	\$342.98	\$342.98	\$342.98	\$342.98	
Connection Fee	\$2,195.00	\$2,195.00	\$2,304.75	\$2,419.99	\$2,540.99	\$2,668.04	\$2,801.44	\$2,941.51	\$3,088.59	\$3,243.01	\$3,405.17	\$3,405.17	\$3,405.17	\$3,405.17	\$3,405.17	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 371,928,723	\$ 337,674,076	\$ 462,787,414	\$ 399,892,378	\$ 271,174,209	\$ 355,754,793	\$ 284,198,227	\$ 321,964,130	\$ 243,795,511	\$ 311,122,772	\$ 385,091,935	\$ 403,408,179	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 165,029,148	\$ 178,605,985	\$ 189,501,409	\$ 201,082,258	\$ 213,391,711	\$ 226,474,958	\$ 240,147,505	\$ 254,426,203	\$ 269,571,798	\$ 272,469,477	\$ 275,399,031	\$ 278,360,810	\$ 281,355,169	\$ 3,347,725,092
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 80,804,648	\$ 91,442,185	\$ 96,498,709	\$ 103,568,742	\$ 113,755,088	\$ 123,342,058	\$ 133,393,305	\$ 143,921,103	\$ 155,181,398	\$ 154,054,177	\$ 152,814,431	\$ 151,456,710	\$ 149,976,469	\$ 1,795,960,739
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 19,015,491	\$ 20,225,827	\$ 21,847,856	\$ 23,741,813	\$ 25,252,980	\$ 26,860,332	\$ 27,790,727	\$ 27,213,032	\$ 27,303,848	\$ 27,604,191	\$ 27,907,837	\$ 28,214,823	\$ 28,525,186	\$ 397,083,270
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 166,501,302
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,551,887	\$ 3,282,327	\$ 3,736,621	\$ 4,047,712	\$ 3,089,646	\$ 2,868,958	\$ 2,934,078	\$ 2,765,125	\$ 3,603,904	\$ 4,890,203	\$ 6,166,051	\$ 7,447,682	\$ 8,748,535	\$ 60,751,015
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 42,830,980	\$ 44,177,029	\$ 46,666,729	\$ 49,293,423	\$ 50,276,601	\$ 52,101,945	\$ 30,724,806	\$ 29,978,157	\$ 30,907,752	\$ 32,494,394	\$ 34,073,888	\$ 35,662,505	\$ 37,273,722	\$ 624,335,588
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 123,635,628	\$ 135,619,213	\$ 143,165,438	\$ 152,862,165	\$ 164,031,689	\$ 175,444,002	\$ 164,118,111	\$ 173,899,260	\$ 186,089,150	\$ 186,548,571	\$ 186,888,319	\$ 187,119,216	\$ 187,250,190	\$ 2,420,296,327
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (10,075,750)	\$ (10,075,750)	\$ (10,075,750)	\$ (24,118,000)	\$ (23,976,750)	\$ (23,833,875)	\$ (26,833,500)	\$ (26,676,500)	\$ (26,519,125)	\$ (26,355,750)	\$ (208,540,750)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (42,334,556)	\$ (42,340,806)	\$ (42,335,931)	\$ (56,375,556)	\$ (56,236,806)	\$ (56,099,306)	\$ (59,278,506)	\$ (58,988,805)	\$ (58,692,490)	\$ (55,506,320)	\$ (688,239,242)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 91,385,822	\$ 103,364,657	\$ 110,907,382	\$ 110,527,609	\$ 121,690,883	\$ 133,108,071	\$ 107,742,554	\$ 117,662,454	\$ 129,989,843	\$ 127,270,065	\$ 127,899,515	\$ 128,426,725	\$ 131,743,870	\$ 1,732,057,086
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ 200,000,000	\$ -	\$ -	\$ -	\$ 175,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 375,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (19,657,306)	\$ (34,254,647)	\$ 125,113,338	\$ (62,895,035)	\$ (128,718,169)	\$ 84,580,584	\$ (71,556,566)	\$ 37,765,903	\$ (78,168,619)	\$ 67,327,261	\$ 73,969,163	\$ 18,316,243	\$ 65,060,699	\$ 104,993,821
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 371,928,723	\$ 337,674,076	\$ 462,787,414	\$ 399,892,378	\$ 271,174,209	\$ 355,754,793	\$ 284,198,227	\$ 321,964,130	\$ 243,795,511	\$ 311,122,772	\$ 385,091,935	\$ 403,408,179	\$ 468,468,877	
Reserve Requirements	\$ 168,091,974	\$ 171,702,922	\$ 172,861,263	\$ 177,445,047	\$ 198,540,727	\$ 205,124,617	\$ 210,075,699	\$ 227,019,759	\$ 232,169,387	\$ 235,331,517	\$ 241,006,607	\$ 243,895,137	\$ 246,507,925	\$ 250,228,541	\$ 250,274,321	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 123,635,628	\$ 135,619,213	\$ 143,165,438	\$ 152,862,165	\$ 164,031,689	\$ 175,444,002	\$ 164,118,111	\$ 173,899,260	\$ 186,089,150	\$ 186,548,571	\$ 186,888,319	\$ 187,119,216	\$ 187,250,190	
All-in Debt Service Coverage	3.81x	4.20x	3.83x	4.20x	4.44x	3.61x	3.87x	4.14x	2.91x	3.09x	3.32x	3.15x	3.17x	3.19x	3.37x	



## Scenario 6b – 5% increases with debt (Sales Tax Continues)

- Assumes Sewer Service Charge and Connection Fees grow at 5% annually (FY 2020 - 2028), and Sales Tax continues
- Debt issuances to fill in periods of limited fund balance
- In order to maintain required reserves, the District would need to issue a total of \$285 million of debt between FY 2022 and FY 2027

Proforma Projections	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Fiscal Year	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2018-2032
Sewer Service Charge	\$221.09	\$221.09	\$232.14	\$243.75	\$255.94	\$268.74	\$282.17	\$296.28	\$311.10	\$326.65	\$342.98	\$342.98	\$342.98	\$342.98	\$342.98	
Connection Fee	\$2,195.00	\$2,195.00	\$2,304.75	\$2,419.99	\$2,540.99	\$2,668.04	\$2,801.44	\$2,941.51	\$3,088.59	\$3,243.01	\$3,405.17	\$3,405.17	\$3,405.17	\$3,405.17	\$3,405.17	
Beginning Balance	\$ 363,475,056	\$ 382,740,172	\$ 391,586,029	\$ 371,928,723	\$ 337,674,076	\$ 412,536,157	\$ 351,667,743	\$ 224,996,562	\$ 271,443,702	\$ 227,844,419	\$ 294,269,340	\$ 245,481,090	\$ 343,645,147	\$ 449,211,991	\$ 499,900,413	
Total Operating Revenues	\$ 148,534,702	\$ 153,374,929	\$ 165,029,148	\$ 178,605,985	\$ 189,501,409	\$ 201,082,258	\$ 213,391,711	\$ 226,474,958	\$ 240,147,505	\$ 254,426,203	\$ 269,571,798	\$ 272,469,477	\$ 275,399,031	\$ 278,360,810	\$ 281,355,169	\$ 3,347,725,092
Total Operating Expenses	\$ (74,771,253)	\$ (81,386,661)	\$ (84,224,500)	\$ (87,163,800)	\$ (93,002,700)	\$ (97,513,516)	\$ (99,636,623)	\$ (103,132,900)	\$ (106,754,200)	\$ (110,505,100)	\$ (114,390,400)	\$ (118,415,300)	\$ (122,584,600)	\$ (126,904,100)	\$ (131,378,700)	\$ (1,551,764,353)
Net Operating Revenues	\$ 73,763,449	\$ 71,988,268	\$ 80,804,648	\$ 91,442,185	\$ 96,498,709	\$ 103,568,742	\$ 113,755,088	\$ 123,342,058	\$ 133,393,305	\$ 143,921,103	\$ 155,181,398	\$ 154,054,177	\$ 152,814,431	\$ 151,456,710	\$ 149,976,469	\$ 1,795,960,739
Connection Fees	\$ 26,990,945	\$ 38,588,383	\$ 19,015,491	\$ 20,225,827	\$ 21,847,856	\$ 23,741,813	\$ 25,252,980	\$ 26,860,332	\$ 27,790,727	\$ 27,213,032	\$ 27,303,848	\$ 27,604,191	\$ 27,907,837	\$ 28,214,823	\$ 28,525,186	\$ 397,083,270
Sales Tax Revenues	\$ 18,906,677	\$ 19,769,368	\$ 20,263,603	\$ 20,668,875	\$ 21,082,252	\$ 21,503,897	\$ 21,933,975	\$ 22,372,655	\$ 22,820,108	\$ 23,276,510	\$ 23,742,040	\$ 24,216,881	\$ 24,701,219	\$ 25,195,243	\$ 25,699,148	\$ 336,152,451
Other Non-Operating Revenues	\$ -	\$ 3,618,284	\$ 3,551,887	\$ 3,282,327	\$ 3,485,364	\$ 3,555,333	\$ 2,617,635	\$ 2,216,515	\$ 2,230,754	\$ 2,344,882	\$ 3,473,858	\$ 5,061,243	\$ 6,649,263	\$ 8,250,744	\$ 9,879,285	\$ 60,217,374
Total Non-Operating Revenues	\$ 45,897,622	\$ 61,976,035	\$ 42,830,980	\$ 44,177,029	\$ 46,415,473	\$ 48,801,043	\$ 49,804,590	\$ 51,449,501	\$ 52,841,589	\$ 52,834,424	\$ 54,519,746	\$ 56,882,315	\$ 59,258,319	\$ 61,660,810	\$ 64,103,619	\$ 793,453,095
Net Revenue Available for Debt Service and Cap	\$ 119,661,071	\$ 133,964,303	\$ 123,635,628	\$ 135,619,213	\$ 142,914,182	\$ 152,369,786	\$ 163,559,678	\$ 174,791,559	\$ 186,234,894	\$ 196,755,527	\$ 209,701,144	\$ 210,936,492	\$ 212,072,750	\$ 213,117,520	\$ 214,080,088	\$ 2,589,413,834
Existing Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (32,258,806)	\$ (32,265,056)	\$ (32,260,181)	\$ (32,257,556)	\$ (32,260,056)	\$ (32,265,431)	\$ (32,445,006)	\$ (32,312,305)	\$ (32,173,365)	\$ (29,150,570)	\$ (479,698,492)
New Debt Service	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (7,556,750)	\$ (7,556,750)	\$ (7,556,750)	\$ (18,277,500)	\$ (18,174,000)	\$ (18,065,500)	\$ (20,384,625)	\$ (20,263,250)	\$ (20,145,250)	\$ (20,020,125)	\$ (158,000,500)
Total Debt Service	\$ (31,409,044)	\$ (31,878,694)	\$ (32,249,806)	\$ (32,254,556)	\$ (32,258,056)	\$ (39,815,556)	\$ (39,821,806)	\$ (39,816,931)	\$ (50,535,056)	\$ (50,434,056)	\$ (50,330,931)	\$ (52,829,631)	\$ (52,575,555)	\$ (52,318,615)	\$ (49,170,695)	\$ (637,698,992)
Net Revenue Available for Capital	\$ 88,252,027	\$ 102,085,610	\$ 91,385,822	\$ 103,364,657	\$ 110,656,126	\$ 112,554,229	\$ 123,737,871	\$ 134,974,627	\$ 135,699,838	\$ 146,321,471	\$ 159,370,213	\$ 158,106,861	\$ 159,497,195	\$ 160,798,905	\$ 164,909,393	\$ 1,951,714,843
Capital Expenditures	\$ (68,986,911)	\$ (93,239,753)	\$ (111,043,128)	\$ (137,619,304)	\$ (185,794,044)	\$ (173,422,644)	\$ (250,409,052)	\$ (223,527,487)	\$ (179,299,120)	\$ (79,896,550)	\$ (208,158,462)	\$ (59,942,804)	\$ (53,930,351)	\$ (110,110,482)	\$ (66,683,172)	\$ (2,002,063,264)
Bond Proceeds	\$ -	\$ -	\$ -	\$ -	\$ 150,000,000	\$ -	\$ -	\$ 135,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 285,000,000
Surplus/Deficit	\$ 19,265,116	\$ 8,845,857	\$ (19,657,306)	\$ (34,254,647)	\$ 74,862,081	\$ (60,868,415)	\$ (126,671,181)	\$ 46,447,140	\$ (43,599,283)	\$ 66,424,920	\$ (48,788,250)	\$ 98,164,057	\$ 105,566,844	\$ 50,688,423	\$ 98,226,221	\$ 234,651,579
Ending Balance	\$ 382,740,172	\$ 391,586,029	\$ 371,928,723	\$ 337,674,076	\$ 412,536,157	\$ 351,667,743	\$ 224,996,562	\$ 271,443,702	\$ 227,844,419	\$ 294,269,340	\$ 245,481,090	\$ 343,645,147	\$ 449,211,991	\$ 499,900,413	\$ 598,126,635	
Reserve Requirements	\$ 168,091,974	\$ 171,702,922	\$ 172,861,263	\$ 177,445,047	\$ 194,715,227	\$ 201,299,117	\$ 206,250,199	\$ 220,570,884	\$ 225,720,512	\$ 228,882,642	\$ 234,557,732	\$ 237,446,262	\$ 240,094,675	\$ 243,854,666	\$ 243,938,696	
All-in Pledged Revenues	\$ 119,661,071	\$ 133,964,303	\$ 123,635,628	\$ 135,619,213	\$ 142,914,182	\$ 152,369,786	\$ 163,559,678	\$ 174,791,559	\$ 186,234,894	\$ 196,755,527	\$ 185,959,104	\$ 186,719,611	\$ 187,371,531	\$ 187,922,277	\$ 188,380,940	
All-in Debt Service Coverage	3.81x	4.20x	3.83x	4.20x	4.43x	3.83x	4.11x	4.39x	3.69x	3.90x	3.69x	3.53x	3.56x	3.59x	3.83x	



## Comparison of Scenarios

Scenario	3a	3b	4a	4b	5a	5b	6a	6b
Sewer Service Rate Increases (FY2020-2028)	4.50%	3.75%	4.65%	3.95%	3.40%	2.75%	5.00%	5.00%
Connection Fee Increases	\$2,876 in FY20; CPI After	\$2,876 in FY20; CPI After	Phase in; CPI After	Phase in; CPI After	Phase in; CPI After	Phase in; CPI After	5.00% (2020-2028)	5.00% (2020-2028)
New Debt Issued	\$ 400M	\$ 400M	\$ 400M	\$ 400M	\$ 500M	\$ 500M	\$ 375M	\$ 285M

# Discussion

Other Scenarios?

Next Meeting:  
October 18 at 11:30 AM  
at the Flamingo Water Resource Center  
5857 E. Flamingo Road



- **Recommendations**

# CONTACTS

Terry Murphy  
tmurphy951@gmail.com  
702-683-8550

Guy Hobbs  
guy@hobbson.com  
702-733-7223

Julie Chadburn  
jchadburn@cleanwaterteam.com  
702-668-8068