

## Appendix F: City of Flagstaff, AZ - Capacity Fee Analysis

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Water, Reclaimed Water, & Wastewater Cost-of-Service Rates & Fees Study  
Assumptions & Preliminary Results Workbook



## Summary of System Fixed Assets & Administration Cost Allocation

## Schedule 1

Function		RCNLD Asset Value	Contributed / Excluded Assets	Net RCNLD Asset Value	Net Allocated Admin Costs	Net Asset Value + Allocated Admin
Water	Water Resources	\$ 37,031,294	\$ 6,360,654	\$ 30,670,640	\$ 5,038,075	\$ 35,708,714
Water	Production	\$ 16,630,754	\$ 730,487	\$ 15,900,267	\$ 2,611,838	\$ 18,512,104
Water	Storage	\$ 11,669,237	\$ -	\$ 11,669,237	\$ 1,916,833	\$ 13,586,070
Water	Distribution	\$ 171,621,881	\$ 74,514,364	\$ 97,107,517	\$ 15,951,246	\$ 113,058,763
Water	Reclaimed Water (Distribution)	\$ 16,566,629	\$ 14,670	\$ 16,551,959	\$ 2,718,887	\$ 19,270,846
Sewer	Treatment	\$ 20,392,534	\$ 713,698	\$ 19,678,836	\$ 3,232,520	\$ 22,911,355
Sewer	Interceptors	\$ 62,495,919	\$ 26,617,680	\$ 35,878,240	\$ 5,893,494	\$ 41,771,734
Sewer	Collection	\$ 65,557,471	\$ 29,130,756	\$ 36,426,715	\$ 5,983,589	\$ 42,410,304
Sewer	Reclaimed Water (Treatment)	\$ 20,381,331	\$ 1,195	\$ 20,380,137	\$ 3,347,718	\$ 23,727,854
Sewer	Treatment - Loadings	\$ 9,993,592	\$ -	\$ 9,993,592	\$ 1,641,585	\$ 11,635,177
<b>Total</b>		<b>\$ 432,340,643</b>	<b>\$ 138,083,505</b>	<b>\$ 294,257,138</b>	<b>\$ 48,335,783</b>	<b>\$ 342,592,922</b>
<b>Total Water</b>		<b>\$ 253,519,795</b>	<b>\$ 81,620,176</b>	<b>\$ 171,899,619</b>	<b>\$ 28,236,878</b>	<b>\$ 200,136,497</b>
<b>Total Sewer</b>		<b>\$ 178,820,848</b>	<b>\$ 56,463,329</b>	<b>\$ 122,357,519</b>	<b>\$ 20,098,906</b>	<b>\$ 142,456,425</b>

Capital Improvement Program \$ Allocation to System and Components

Schedule 2

Project Description	Planning Period Total Cost	% Growth	Growth Related Costs	Water System					Sewer System				
				Water Resources	Production	Storage	Distribution	Reclaimed Water (Distribution)	Treatment	Interceptors	Collection	Treatment - Loadings	
<b>Water Projects</b>													
Beulah/University Waterline Relocation	\$ 404,103	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Flood Control Project - Waterline	\$ 2,275,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Aging Water Infrastructure Replacements	\$ 20,100,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Water Vault/PRV Replacement Program	\$ 2,551,024	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Radio Read Meter Replacements	\$ 3,300,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reserve	\$ 3,300,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Water System Master Plan	\$ 300,000	50.00%	\$150,000.00	\$37,500.00	\$37,500.00	\$37,500.00	\$37,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Water Rate Study	\$ 262,000	50.00%	\$131,000.00	\$32,750.00	\$32,750.00	\$32,750.00	\$32,750.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SCADA Well Upgrades	\$ 330,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Future Water Rights - Red Gap Waterline	\$ 320,941	100.00%	\$320,941.00	\$320,941.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Route 66 Waterline Improvements	\$ 307,405	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
New Well and Pumphouse	\$ 26,248,619	100.00%	\$26,248,619.00	\$13,124,309.50	\$13,124,309.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Cocconino Estates - Bundle #4	\$ 2,816,489	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Lake Mary Sedimentation Basins (Flocculations)	\$ 3,755,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Soliers Waterline 12" Upsizing	\$ 3,406,176	60.00%	\$2,043,705.60	\$0.00	\$0.00	\$0.00	\$2,043,705.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lake Mary Land Acquisition	\$ 3,000,000	100.00%	\$3,000,000.00	\$0.00	\$3,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
McAllister-Well Design/Construction	\$ 148,912	100.00%	\$148,912.00	\$148,912.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Switzer Canyon Transmission Line Phase 4	\$ 7,162,560	50.00%	\$3,581,280.00	\$0.00	\$0.00	\$0.00	\$3,581,280.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Switzer Canyon Transmission Line Phase 5	\$ 7,000,000	50.00%	\$3,500,000.00	\$0.00	\$0.00	\$0.00	\$3,500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fort Tuthill Waterline Loop - Phase 2	\$ 2,000,000	100.00%	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Water Energy Efficiency Upgrades	\$ 500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Summit Waterline Replacement	\$ 55,050	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Phoenix Avenue Bridge Waterline Replacement	\$ 5,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Industrial/Huntington Drive Waterline Replacement	\$ 556,146	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Water Resources Master Plan	\$ 150,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
First Ave TREX Waterline Replacement	\$ 250,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Fourth Street Reconstruction	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Fort Tuthill Well	\$ 7,620,000	100.00%	\$7,620,000.00	\$7,620,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Inner Basin Waterline	\$ 250,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Inner Basin Line - Schultz to Reservoir Plant	\$ 8,200,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Inner Basin Spring Box and Collection Rehab	\$ 4,200,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
LM Raw Water Pipeline Rehab	\$ 14,500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Zone B Storage	\$ 1,050,000	100.00%	\$1,050,000.00	\$0.00	\$0.00	\$1,050,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Lake Mary Dam Repairs	\$ 150,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Red Gap Ranch Hydrogeologic Study	\$ 300,000	100.00%	\$300,000.00	\$300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Red Gap Ranch ROW Survey and Mapping	\$ 150,000	100.00%	\$150,000.00	\$150,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Red Gap Ranch Water Quality Study	\$ 400,000	100.00%	\$400,000.00	\$400,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Railroad Springs #3 Storage Tank	\$ 1,500,000	100.00%	\$1,500,000.00	\$0.00	\$0.00	\$1,500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Railroad Springs #1 Repaint	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Red Gap Ranch NEPA Environ Impact Study	\$ 250,000	100.00%	\$250,000.00	\$250,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Red Gap Ranch ROW Acquisition Segments 1-3	\$ 2,000,000	100.00%	\$2,000,000.00	\$2,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Red Gap Ranch Well Completion (10 Wells)	\$ 450,000	100.00%	\$450,000.00	\$450,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JW Powell Waterline Oversizing	\$ 2,300,000	100.00%	\$2,300,000.00	\$0.00	\$0.00	\$0.00	\$2,300,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Pine Del Waterline Upsizing	\$ 2,500,000	100.00%	\$2,500,000.00	\$0.00	\$0.00	\$0.00	\$2,500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Red Gap Ranch Geotechnical Investigation	\$ 125,000	100.00%	\$125,000.00	\$125,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Red Gap Ranch Well Field Piping Design	\$ 750,000	100.00%	\$750,000.00	\$750,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Woody Mountain Wellfield Powerline Burial	\$ 2,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Fort Valley Shopping Center	\$ 600,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
ADOT Cast Iron	\$ 5,500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Turquoise WL Replacement	\$ 1,100,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Red Gap Ranch Conveyance Design Engineering	\$ -	100.00%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Red Gap Ranch Treatment Plant Design Engineering	\$ -	100.00%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Annual Unfunded project	\$ 9,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Future Water Supply	\$ 230,000,000	100.00%	\$230,000,000.00	\$230,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Project Description	Planning Period Total Cost	% Growth	Growth Related Costs	Water System					Sewer System				
				Water Resources	Production	Storage	Distribution	Reclaimed Water (Distribution)	Treatment	Interceptors	Collection	Treatment - Loadings	
<b>Sewer Projects</b>													
Beulah/University Sewer Ext	\$ 300,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Master Plan - Collections	\$ 400,000	50.00%	\$200,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200,000.00	\$0.00
Energy Efficiency Program	\$ 599,608	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
SCADA Upgrades/Assessment	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Two Bar Screens	\$ 609,917	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Aging Infrastructure Replacements	\$ 13,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reserve for Improvements	\$ 3,113,852	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio de Flag Sewer Relocations	\$ 4,245,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Coconino Estates - Bundle #4	\$ 883,315	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Wildcat Dewatering Facility	\$ 6,100,000	50.00%	\$3,050,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,050,000.00
Sewer Rate Study	\$ 125,000	50.00%	\$62,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20,833.33	\$20,833.33	\$20,833.33	\$0.00
Wildcat New Digester #3 & #4	\$ -	80.00%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Fort Tuthill Sewer Oversizing	\$ -	100.00%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Wildcat Co-Gen Rebuild	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
First Ave Rte 66 Sewer Replacement	\$ 524,200	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Country Club Interceptor to WCH	\$ 12,300,000	50.00%	\$6,150,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,150,000.00	\$0.00	\$0.00
Wildcat Primary Pump Station Imp	\$ -	33.00%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Wildcat Expansion Design	\$ -	100.00%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Wildcat Headworks MCC	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Clarifier Rebuild	\$ 72,611	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Solids Treatment	\$ 24,700,000	100.00%	\$24,700,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,700,000.00
Capital Improvements - Various	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Sewer Collection AIR Assessments	\$ 50,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Wildcat New Elect./Fiber Upgrade	\$ 3,246,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Wildcat Roof Replacement	\$ 3,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Wildcat UV Disinfection	\$ 5,500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Main Motor Control Centers	\$ 3,600,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
BNSF Sewer Relocations	\$ 500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Facility Master Plan Update	\$ 1,200,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Headworks Rehab	\$ 3,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
East Industrial Sewer Improvements	\$ 520,000	50.00%	\$260,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$260,000.00	\$0.00
Sunnyside Trunk Upsizing	\$ 260,000	50.00%	\$130,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$130,000.00	\$0.00	\$0.00
Ponderosa Pkwy - McMillan Mesa	\$ 400,000	50.00%	\$200,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$200,000.00	\$0.00
East Railhead Upsizing	\$ 500,000	50.00%	\$250,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$250,000.00	\$0.00
University Heights Oversizing	\$ 500,000	50.00%	\$250,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$250,000.00	\$0.00
Wildcat Solar Drying Facility	\$ 3,000,000	100.00%	\$3,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,000,000.00
Rio Influent Grit Removal Project	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Roof Replacement	\$ 2,500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Unfunded project estimate	\$ 20,532,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Wastewater Treatment Plant Expansion - Design and Construction	\$ 245,000,000	50.00%	\$122,500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$61,250,000.00	\$0.00	\$0.00	\$61,250,000.00
<b>Reclaimed Water Projects</b>													
Buffalo Tank Chlorination	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Bushmaster Park Reclaimed Pump Station	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Advanced Treatment Concept Design	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
8" Bottleneck - Replacement	\$ 3,933,433	100.00%	\$3,933,433.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,933,433.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Rio Reclaim Water PRV Relocation 16"	\$ 200,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reclaimed Water Resource Master Plan	\$ -	50.00%	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Rate Study- Reclaimed Portion	\$ 75,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reclaim Water Meters and Vaults	\$ 200,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Reclaimed Pump Valve Actuators	\$ 120,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reclaim Recharge Outfall Project	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
AWT Sampling and Testing	\$ 180,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reclaim System PRV/ARV Assessment	\$ 100,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
BNSF Reclaimed Relocations	\$ 500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Buffalo Park Tank #1 Painting	\$ 400,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Buffalo Park Chlorine Bldg Upgrade	\$ 3,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
RIO IP PRV Station - Raise/Relocate	\$ -	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reclaim Loop - Fox Glenn to Country Club	\$ 5,000,000	100.00%	\$5,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Bushmaster Park Booster Communications & Flow Meters	\$ 600,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
WCH Reclaim Booster Building Equipment Upgrade	\$ 4,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
AWT Pilot Project	\$ 3,000,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Reclaim Model Projects	\$ 2,500,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
Rio Storage Tank	\$ 500,000	100.00%	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
WCH Storage tank	\$ 500,000	100.00%	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$500,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Unfunded project estimate	\$ 29,250,000	0.00%	\$0.00	0	0	0	0	0	0	0	0	0	0
	\$799,739,361		\$461,205,390.60	\$255,709,412.50	\$16,194,559.50	\$2,620,250.00	\$15,995,235.60	\$9,933,433.00	\$61,270,833.33	\$6,300,833.33	\$1,180,833.33	\$92,000,000.00	
			\$461,205,390.60	\$255,709,412.50	\$16,194,559.50	\$2,620,250.00	\$15,995,235.60	\$9,933,433.00	\$61,270,833.33	\$6,300,833.33	\$1,180,833.33	\$92,000,000.00	

## Debt Allocation to System

## Schedule 3

Outstanding (Existing) Principal Allocation			
Description	Total Outstanding Principal	% Water	% Sewer
WIFA Loan #920173-10, Fort Tuthill	\$247,369	100.0%	0.0%
WIFA Loan #720011-10, Aquifer/Legal Fees	\$516,539	100.0%	0.0%
STIFEL Bond Refunding - Water/Wastewater FY2018	\$2,940,748	100.0%	0.0%
Revenue Obligation Bonds 2019	\$4,392,140	100.0%	0.0%
Utility System Revenue Refunding Obligation, Series 2022	\$4,930,000	100.0%	0.0%
WIFA Loan #9202212-11, Red Gap Wells	\$81,298	100.0%	0.0%
Revenue Bonds - Refunding, Series 2017	\$8,934,252	0.0%	100.0%
Revenue Bonds - Series 2019	\$3,952,860	0.0%	100.0%
<b>Total Outstanding Principal</b>	<b>\$26,927,098</b>	<b>\$13,108,094</b>	<b>\$13,819,004</b>

**Water System Development Fee Calculation**

**Schedule 4**

**Combined Methodology**

Functional Component:	Water Resources	Production	Storage	Distribution	Reclaimed Water (Distribution)	Total
Gross Plant in Service Value	\$42,131,414	\$19,274,757	\$13,609,676	\$187,769,572	\$19,319,000	\$282,104,419
Total Expansion Capital Projects	\$255,709,413	\$16,194,560	\$2,620,250	\$15,995,236	\$9,933,433	\$300,452,891
Gross Plant in Service Value	\$297,840,826	\$35,469,317	\$16,229,926	\$203,764,807	\$29,252,433	\$582,557,309
<b>Less:</b>						
Principal Credit (Outstanding Debt)	\$2,338,770	\$ 1,212,465	\$ 889,830	\$ 7,404,871	\$ 1,262,159	\$ 13,108,094
Specific Asset Contributions/Exclusions	6,422,699	762,653	23,606	74,710,809	48,154	81,967,922
General Allowance for Asset Contributions/Exclusions	-	-	-	-	-	-
Grants (Historical and Future)	-	-	-	-	-	-
Revenue Credit (Principal Future Debt during Planning Period)	-	-	-	-	-	-
Additional credit to meet 25% requirement	-	-	-	-	-	-
<b>Net System Value</b>	<b>\$289,079,357</b>	<b>\$33,494,199</b>	<b>\$ 15,316,489</b>	<b>\$ 121,649,128</b>	<b>\$ 27,942,120</b>	<b>\$487,481,294</b>
<i>Fee Calculation:</i>						
Capacity						
Million Gallons Per Day (MGD)	36.43	18.42	25.00	22.26	3.43	
Calculated Fee per Unit of Capacity (\$/gpd)	\$ 7.94	\$ 1.82	\$ 0.61	\$ 5.46	\$ 8.14	\$ 23.97
Percentage of Full Cost Recovery						
Escalation Factor to Effective Year						
Calculated Fee per Unit of Capacity (\$/gpd)	\$ 8.17	\$ 1.87	\$ 0.63	\$ 5.63	\$ 8.38	\$ 24.69
Level of Service (GPD)	-	-	-			334.80
<b>Single ERU</b>						<b>\$ 8,266</b>
Current Fee:						\$ 5,728.00
Dollar Change						\$ 2,538.02
Percent Change						44%

Sewer System Development Fee Calculation by Methodology

Schedule 5

Combined Methodology

Functional Component:	Treatment	Interceptors	Collection	Reclaimed Water (Treatment)	Treatment - Loadings	Total
Gross Plant in Service Value	\$23,664,863	\$68,461,994	\$71,614,750	\$23,770,277	\$11,655,393	\$199,167,278
Total Expansion Capital Projects	\$61,270,833	\$6,300,833	\$1,180,833	\$0	\$92,000,000	\$160,752,500
Gross Plant in Service Value	\$84,935,697	\$74,762,827	\$72,795,583	\$23,770,277	\$103,655,393	\$359,919,778
<b>Less:</b>						
Principal Credit (Outstanding Debt)	\$1,641,961	\$4,750,161	\$4,968,911	\$1,649,275	\$808,697	\$13,819,004
Specific Asset Contributions/Exclusions	753,508	26,690,260	29,204,446	42,423	20,217	56,710,853
General Allowance for Asset Contributions/Exclusions	-	-	-	-	-	-
Grants (Historical and Future)	-	-	-	-	-	-
Revenue Credit (Principal Future Debt during Planning Period)	-	-	-	-	-	-
Additional credit to meet 25% requirement	-	-	-	-	-	-
<b>Net System Value</b>	<b>\$ 82,540,228</b>	<b>\$43,322,407</b>	<b>\$ 38,622,226</b>	<b>\$ 22,078,580</b>	<b>\$ 102,826,480</b>	<b>\$289,389,921</b>
Revenue Credit % Used in Fee Calculation						0.00%
<i>Fee Calculation:</i>						
Capacity						
Million Gallons Per Day (MGD)	19.00	19.00	13.96	17.93	N/A	
Calculated Fee per Unit of Capacity (\$/gpd)	\$ 4.34	\$ 2.28	\$ 2.77	\$ 1.23	\$ -	\$ 10.62
Percentage of Full Cost Recovery						100.00%
Escalation Factor to Effective Year						0.00%
Calculated Fee per Unit of Capacity (\$/gpd)	\$ 4.47	\$ 2.35	\$ 2.85	\$ 1.27	\$ -	\$ 10.94
Level of Service (GPD)						257.28
Calculated Fee per Pound (\$/lb)						\$ 1,890.94
Level of Service (PPD)						0.67
<b>Single ERU</b>						<b>\$4,086</b>
Current Fee:						\$3,723.00
Dollar Change						\$362.68
Percent Change						9.7%