Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects

	5 Yr Total	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component						
Water	783,000	223,000	210,000	350,000	0	0
Wastewater	1,001,000	511,000	490,000	337,500	447,500	0
Employee Housing	0	0	0	0	0	0
Fire	400,000	0	0	0	400,000	0
Electric	80,000	0	0	30,000	0	50,000
Propane	190,000	100,000	40,000	0	0	50,000
Snow Removal	215,000	215,000	0	0	0	0
Cable	0	0	0	0	0	0
Parks and Rec	20,000	20,000	0	0	0	0
Solid Waste	0	0	0	0	0	0
Operations Shared	0	0	0	0	0	0
Total Capacity Expense	2,689,000	1,069,000	740,000	717,500	847,500	100,000
Replacement Component						
Water	913,000	153,000	292,000	308,000	137,000	23,000
Wastewater	7,704,590	3,111,660	3,312,930	967,500	207,500	105,000
Employee Housing	47,500	12,000	7,000	9,500	9,500	9,500
Fire	550,000	89,000	34,000	9,000	409,000	9,000
Electric	989,500	98,000	534,000	233,000	26,500	98,000
Propane	2,995,000	271,000	2,331,000	331,000	31,000	31,000
Snow Removal	1,040,000	350,500	119,500	277,500	2,500	290,000
Cable	11,000	7,000	1,000	1,000	1,000	1,000
Parks and Rec	28,000	25,000	1,500	0	1,500	0
Solid Waste	40,000	40,000	0	0	0	0
Operations Shared	516,500	45,000	236,500	20,000	75,000	140,000
Total Replacement Expense	14,835,090	4,202,160	6,869,430	2,156,500	900,500	706,500
Total Capital Expense	17,524,090	5,271,160	7,609,430	2,874,000	1,748,000	806,500

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Water

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
Distribution								
Cross Connection Control Program	60,000	One Time	1	60,000				
Pressure Recorders	3,000	One Time	1	3,000				
Sample Station	10,000	One Time	1	10,000				
Well 6 Hydrology Study & Permitting	15,000	One Time	2		15,000			
Test Wells	75,000	One Time	2		75,000			
Well 6 Installation	350,000	One Time	3			350,000		
Pressure Reducing Stations (2)	90,000	One Time	2		90,000			
Well Transmission Mains to Upper Zones	0	One Time	5					
Storage	0							
Tank Inspection	50,000	As Needed	1	50,000				
Tanks (1.4 Mgal additional)	0	As Needed	5					
General	0 100,000	Our a Time a	1	100.000				
Water Master Plan Water/Wastewater 218 Rate Study (Split)	30,000	One Time Five Years	2	100,000	30,000			
Total Water Capacity Expense	783,000			223,000	210,000	350,000	0	0
	100,000			220,000	210,000			
Replacement Component								
Fire Hydrant Replacements	40,000	Annual	1	8,000	8,000	8,000	8,000	8,000
Pressure Reducing Valve Replacement	75,000	Five Over Five Years	1	15,000	15,000	15,000	15,000	15,000
Tank Diving / Inspection	15,000	Five Years	1	15,000				
Well 2 Telemetry	15,000	One Time	1	15,000				
Well 3 Flow Meter / Telemetry	20,000	One Time	1	20,000				
EV Purchase (Split with Solid Waste)	40,000	Ten Years	1	40,000				
Tank (Dangburg) Recoating	150,000	Thirty Years	2		150,000			
Well 4/5 Building Replacement/Hardening	107,000	One Time	2		107,000			
Well Pumps	12,000	Five Years	2		12,000			
Distribution System Valve Replacement	25,000	Three Years	3		,	25,000		
Tank (Lodge) Recoating	150,000	Thirty Years	3			150,000		
Well 3 Building Replacement/Hardening	110,000	One Time	3			110,000		
Well 2 Building Replacement/Hardening	114,000	One Time	4			110,000	114,000	
Remote Read Meter Replacement	0	Twenty over Five Years	5				,000	
General	U	Twenty Over Five Teals	0					
EV Light Duty Service Truck (Split w/Solid Waste)	40,000	Ten Years	1	40,000				
Total Water Replacement Expense	913,000			153,000	292,000	308,000	137,000	23,000

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Wastewater

	5 Yr Total		Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component		, ,	Scale 1~5					
Collection								
East Lift Upgrade/Replacement (50%)	150,000	Thirty Years	3			150,000		
Main Lift Upgrade/Replacement (50%)	187,500	Thirty Years	3			187,500	07.500	
Lower Lift Upgrade/Replacement (50%) Treatment	97,500	Thirty Years	4				97,500	
Black Tank Telemetry	16,000	As Needed	1	16,000				
Centrifuge Upgrade/Replacement (50%)	325,000	As Needed	1	325,000				
EQ Tank Replacement (50%)	245,000	As Needed	2	323,000	245,000			
Headworks/Hycore Upgrade/Replacement (50%)	215,000	As Needed	2		215,000			
Aeration Blower	0	As Needed	5		210,000			
Disposal								
Effluent Pumps	0	As Needed	5	00.000				
Leachfield Depth Telemetry (Fields 3/4/9) Leachfield Expansion	20,000 350,000	One Time As Needed	1 4	20,000			350,000	
General	000,000	All Needed					000,000	
Wastewater Master Plan	150,000	One Time	1	150,000				
Water/Wastewater 218 Rate Study	30,000	Five Years	2		30,000			
Total Wastewater Capacity Expense	1,001,000			511,000	490,000	337,500	447,500	0
	,,					,	,	
Replacement Component								
Collection								
Collection Manole Infiltration/Inflow Replacement	185,000	As Needed	1	40,000	40,000	40,000	40,000	25,000
Collection Pipeline Infiltration/Inflow Replacement	195,000	As Needed	1	55,000	35,000	35,000	35,000	35,000
Filtrate Pumpe #2 VFD	25,000	As Needed	1	25,000				
Main Life Pump Replacement	15,000	As Needed	1	15,000				
SSMP Update	70,000	Five Years	1	70,000				
Lift Station Pumps	20,000	Three Years	2		10,000			10,000
East Lift Equipment/Controls Moved from Vault	165,000	One Time	3			165,000		
East Lift Upgrade/Replacement (50% Repl)	150,000	Thirty Years	3			150,000		
Main Lift Upgrade/Replacement (50% Repl)	187,500	Thirty Years	3			187,500		
Lift Transducers	10,000	Five Years	4				10,000	
Lower Lift Upgrade/Replacement (50% Repl)	97,500	Thirty Years	4				97,500	
Collection Pipeline Meadow Replacement	0	As Needed	5					
Treatment								
Centrifuge Upgrade/Replacement (50%)*	325,000	One Time	1	325,000				
Microscope	2,500	One Time	1	2,500				
Refurbish WWTP Conditioned Space*	200,000	One Time	1	200,000				
Replace Anoxic / MBR Recirc / Filtrate Pumps*	460,000	One Time	1	460,000				
Replace Basin Area Exhaust Fans*	70,000	One Time	1	70,000				

5 Yr Total Priority 2023-2024 2024-2025 2025-2026 Cycle Replace MBR Pneumatic Valves 120,000 120,000 One Time 1 **Electrical Upgrades*** 110,000 110,000 One Time 1 Misc. Sitework / Piping / Electrical 657,000 One Time 1 328,500 328,500 SCADA/PLC/Controls System Replacement 375,000 375,000 One Time 2 **CIP Tank Canopy** 95,000 2 95,000 One Time **Demolish A-Frame*** 245,000 245,000 One Time 2 EQ Tank Replacement (50% Replacement)* 245,000 2 245,000 One Time Repair/Repaint Exterior Walls* 110,000 One Time 2 110,000 **Replace Chemical Feed Pumps*** 75,000 Ten Years 2 75,000 Headworks/Hycore Upgrade/Replacement (50%) 215,000 2 215,000 One Time 25,000 25,000 Upgrade Instrumentation One Time 2 326,400 General Conditions/Overhead/Profit (20%) 761,100 434,700 One Time 1 Financing (Per Stifel Estimate)³ 330,000 165,000 165,000 One Time 1 **Bidding/Contract Award Phase Services** 20,000 One Time 1 20,000 233,500 233,500 **Construction Phase Services** 467,000 1 One Time SCADA Integrated Electronic O&M Manuals 200,000 200,000 One Time 2 Contingency (15% of Construction Estimate) 684,990 One Time 1 293,760 391,230 Membrane Replacement 250,000 1 250,000 **Fifteen Years** Concrete Basin Refurbishment & Recoating 150,000 **Thirty Years** 3 150,000 **CIP Tank Replacement** 0 5 **Thirty Years** Disposal **VFD** Replacement 20,000 Two Years 2 10,000 45,000 Leachfield Cleanouts One Time Over 5 Years 3 15,000 Monitoring Well Replacement & New WDR 225,000 One Time 3 225,000 Effluent Disposal Line 0 5 One Time Leachefield Lateral Replacement 0 5 **Twenty Years** Pumps/Controls, Absorption Beds 0 5 Ten Years General 2,000 Washer/Dryer Ten Years 1 2,000 EV Light Duty Service Truck 80,000 2 80,000 Ten Years Lift Equipment 20,000 **Ten Years** 5 Walk-Behind Snowblower 0 5 Ten Years **Fotal Wastewater Replacement Expense** 3,111,660 3,312,930 7,704,590 967,500 Total Wastewater Capital Expense 8,705,590 3,622,660 3,802,930 1,305,000

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Wastewater

2026-2027	2027-2028
10,000	
15,000	15,000
	20,000
207,500	105,000
055.000	407.000
655,000	105,000

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Employee Housing

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0							
Total Employee Housing Capacity Expense	0			0	0	0	0	0
Replacement Component								
Hot Water Heaters	24,000	Two Years (Until Remaining 6 Replaced, then 10 Years)	1	8,000		8,000		8,000
Refrigerators	4,500	Two Years (Until Remaining 6 Replaced, then 10 Years)	1	1,500		1,500		1,500
Window Replacement	5,000	Three Years	1	2,500			2,500	
Dishwashers	1,000	Two Years (Until all 8 Replaced, then 10 Years)	2		500		500	
Flooring	9,000	Two Years (Until all 8 Replaced, then 10 Years)	2		4,500		4,500	
Washers/ Dryers	4,000	Two Years (Until Remaining 6 Replaced, then 10 Years)	2		2,000		2,000	
Door Replacement	0	Ten Years	5					
Total Employee Housing Replacement Expense	47,500			12,000	7,000	9,500	9,500	9,500
Total Employee Housing Capital Expense	47,500			12,000	7,000	9,500	9,500	9,500

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Fire

	<u> </u>	24 Capital Improvem	ent Projects	- Fire				
	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
Type 1 Fire Truck	400,000	20 years	4				400,000	
Total Fire Capacity Expense	400,000			0	0	0	400,000	0
Replacement Component								
Hose Replacement	7,500	Annual	1	1,500	1,500	1,500	1,500	1,500
Radio Reprogramming	2,500	Annual	1	500	500	500	500	500
Structure Gear / PPE	35,000	Annual	1	7,000	7,000	7,000	7,000	7,000
Fire Office / Quarters Remodel	80,000	One Time	1	80,000				
Extrication Equipment	10,000	15 years	2		10,000			
Ladder Replacement	15,000	10 years	2		15,000			
Type 1 Fire Truck	400,000	20 years	4				400,000	
Command Vehicle	0	10 years	5					
Type 6 Mini-Pumper Vehicle	0	15 years	5					
Total Fire Replacement Expense	550,000			89,000	34,000	9,000	409,000	9,000
Total Fire Capital Expense	950,000			89,000	34,000	9,000	809,000	9,000

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Electric

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
Upgrades the PH/ future capacity (8MW)	0	As Needed	5					
General								
Electric 218 Rate Study	30,000	Five Years One Time	3			30,000		50.000
Mini-Excavator (Split with Propane)	50,000	One Time	5					50,000
Total Electric Capacity Expense	80,000			0	0	30,000	0	50,000
Replacement Component								
CEMS Screen Replacement	9,000	Two Years	1	3,000		3,000		3,000
Meadow Direct Burial Line Replacement	550,000	One Time	1	50,000	500,000			
Out Valley Switching Cabinet Replacement	60,000	One Time	1	20,000	20,000	20,000		
Powerhouse Door	4,000	One Time	1	4,000				
Radiator Safety Rails	5,000	One Time	1	5,000				
Riser Vaults (8)	40,000	Annual for 4 years	1	10,000	10,000	10,000	10,000	
Transformer Retaining Walls	6,000	One Time	1	6,000				
Service Lines	8,000	Two Years	2		4,000		4,000	
Powerhouse Radiator Roof	200,000	One Time	3			200,000		
Distribution Systen FCIs	12,500	One Time	4				12,500	
Phase 3 Loop Road Project	95,000	One Time	5					95,000
EV Heavy Duty Service Truck (Split with Propane)	0	Ten Years	5					
Snowmobiles	0	Fifteen Years	5					
Walk-Behind Snowblower	0	Ten Years	5					
Total Electric Replacement Expense	989,500			98,000	534,000	233,000	26,500	98,000
Total Electric Capital Expense	1,069,500			98,000	534,000	263,000	26,500	148,000

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Propane

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0							
General								
Propane Master Plan		One Time	1	100,000				
Propane Rate Study	40,000	Five Years	2		40,000			
Mini-Excavator (Split with Electric)	50,000	One Time	5					50,000
Total Propane Capacity Expense	190,000			100,000	40,000	0	0	50,000
Replacement Component								
Leak Survey	20,000	Five Years	1	20,000				
Meter Replacement (Commercial)	40,000	10% a year	1	8,000	8,000	8,000	8,000	8,000
Meter Replacement (Residential)	40,000	10% a year	1	8,000	8,000	8,000	8,000	8,000
Regulator Replacement	75,000	10% a year	1	15,000	15,000	15,000	15,000	15,000
New Propane Tank / Roof Enclosures	2,160,000	One Time	1	160,000	2,000,000			
Propane Service Line Replacement	660,000	Two Years	1	60,000	300,000	300,000		
Upsize Liquid Line to 2-Inch	0	One Time	5					
EV Heavy Duty Service Truck (Split with Electric)	0	Ten Years	5					
Total Propane Replacement Expense	2,995,000			271,000	2,331,000	331,000	31,000	31,000
Total Propane Capital Expense	3,185,000			371,000	2,371,000	331,000	31,000	81,000

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Snow Removal

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
Mid-Size Blower (Loader Mounted)	215,000			215,000				
Total Snow Removal Capacity Expense	215,000			215,000	0	0	0	0
Replacement Component								
RPM Upper Assembly Manufacturer Refurb.	25,000	Five Years	1					25,000
RPM Repair	80,000	One Time	1	80,000				
950F & 950GC Tires	30,500	3 Years w/5 Year Spacing	1	8,000	10,000			12,500
Trackless Tires	12,500	Annual	1	2,500	2,500	2,500	2,500	2,500
Trackless Repairs (Injectors/Radiators/Pumps)	60,000	As Needed	1	60,000				
Trackless Replacement	700,000	As Needed	1	200,000		250,000		250,000
EV Light Duty Service Truck	80,000	Ten Years	2		80,000			
Exhaust / Fume Collection (Split w/Shared)	15,000	One Time	2		15,000			
924G Tires	12,000	Five Years	2		12,000			
Diesel Fill Station (Powerhouse)	20,000	One Time	3			20,000		
Gantry Crane	5,000	One Time	3			5,000		
RPM Replacement	0	Twenty Years	5					
otal Snow Removal Replacement Expense	1,040,000			350,500	119,500	277,500	2,500	290,000
Fotal Snow Removal Capital Expense	1,255,000			565,500	119,500	277,500	2,500	290,000

Kirkwood Meadows Public Utility District

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
[No Capital Capacity Improvements]	0							
Total Cable Capacity Expense	0			0	0	0	0	0
Replacement Component								
Channel 19 Equipment/ Education	5,000	Annual	1	1,000	1,000	1,000	1,000	1,000
Cable Equipment	6,000	Five Years	1	6,000				
Total Cable Replacement Expense	11,000			7,000	1,000	1,000	1,000	1,000
Total Cable Capital Expense	11,000	0		7,000	1,000	1,000	1,000	1,000

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Parks and Rec

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
OGALS Project	20,000	One Time	1	20,000				
Total Parks and Rec Capacity Expense	20,000			20,000	0	0	0	0
Replacement Component								
Playground Retaining Wall	25,000	One Time	1	25,000				
Playground Appurtenance Repair/Replace	3,000	Two Years	2		1,500		1,500	
Total Parks and Rec Replacement Expense	28,000			25,000	1,500	0	1,500	0
Total Parks and Rec Capital Expense	48,000			45,000	1,500	0	1,500	0

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Solid Waste

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
			Scale 1~5					
Capacity Component			1=Critical					
[No Capital Capacity Improvements]	0							
Total Solid Waste Capacity Expense	0			0	0	0	0	0
Total Solid Waste Capacity Expense				0	0	0	0	0
Replacement Component								
EV Light Duty Service Truck (Split w/Water)	40,000	Ten Years	1	40,000				
Dumpsters	0	As Needed	5					
Recycling	0	As Needed	5					
Total Solid Waste Replacement Expense	40,000			40,000	0	0	0	0
Total Solid Waste Capital Expense	40,000			40,000	0	0	0	0

Kirkwood Meadows Public Utility District FY 23/24 Capital Improvement Projects - Operations_Shared

	5 Yr Total	Cycle	Priority	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028
Capacity Component			Scale 1~5 1=Critical					
[No Capital Capacity Improvements]								
Total Operations_Shared Capacity Expense	0			0	0	0	0	0
Replacement Component								
Asphalt Repair	20,000	Two Years	1	10,000		5,000		5,000
Computers	25,000	Annual	1	5,000	5,000	5,000	5,000	5,000
EV Charging Infrastructure @ Maintenance Shop	15,000	One Time	1	15,000				
Heat Pumps & Infrastructure @ CSB (Phase 2)	35,000	One Time	1		35,000			
Roof Heat Tape - CSB	5,000	One Time	1	5,000				
Office Equipment	15,000	Biannual	1	5,000		5,000		5,000
Vehicle Tires	15,000	Biannual	1	5,000		5,000		5,000
Backhoe	180,000	Fifteen Years	2		180,000			
Fall Protection	1,500	Five Years	2		1,500			
Exhaust / Fume Collection (Split w/Snow Rem.)	15,000	One Time	2		15,000			
10 Wheel Dump Truck	50,000	One Time	4				50,000	
CSB Window Replacement	20,000	Ten Years	4				20,000	
CSB Carpet Replacement	0	Fifteen Years	5					
Mud Room Concrete Floor & Pallet Racks	120,000	One Time	5					120,000
Scaffolding	0	Ten Years	5					
Shoring	0	Fifteen Years	5					
Walk-Behind Snowblower	0	Ten Years	5					
Total Operations_Shared Replacement Expense	516,500			45,000	236,500	20,000	75,000	140,000
Total Operations Shared Capital Expense	516,500			45,000	236,500	20,000	75,000	140,000