

Water Capital Improvement Program (CIP)

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total Cost
Approved CIP											
1 Beulah/University Waterline Relocation	\$ 404,103	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 404,103
2 Rio Flood Control Project - Waterline	1,725,000	-	550,000	-	-	-	-	-	-	-	\$ 2,275,000
3 Aging Water Infrastructure Replacements	266,000	200,000	200,000	200,000	900,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	\$ 6,766,000
4 Water Vault/PRV Replacement Program	475,512	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	\$ 2,275,512
5 Radio Read Meter Replacements*	800,000	1,300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	\$ 4,500,000
6 Reserve	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	\$ 3,000,000
7# Water System Master Plan	134,561	-	-	-	-	150,000	-	-	-	-	\$ 284,561
8# Water Rate Study	187,000	-	-	-	-	75,000	-	-	-	-	\$ 262,000
9 SCADA Well Upgrades	60,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	\$ 330,000
10# New Well and Pumphouse*	148,619	-	2,400,000	-	2,800,000	-	3,200,000	-	3,200,000	-	\$ 11,748,619
11 Coconino Estates - Bundle #4	938,807	-	-	-	-	-	-	-	-	-	\$ 938,807
12 Lake Mary Sedimentation Basins (Flocculations)*	4,392,905	3,430,000	-	-	-	-	-	-	-	-	\$ 7,822,905
13# Soliere Waterline 12" Upsizing	3,377,150	-	-	-	-	-	-	-	-	-	\$ 3,377,150
14# Lake Mary Land Acquisition*	-	3,000,000	-	-	-	-	-	-	-	-	\$ 3,000,000
15# McAllister-Well Design/Construction	148,912	-	-	-	-	-	-	-	-	-	\$ 148,912
16# Switzer Canyon Transmission Line Phase 4*	5,593,506	1,210,000	10,000	10,000	-	-	-	-	-	-	\$ 6,823,506
17 Switzer Canyon Transmission Line Phase 5*	-	500,000	2,500,000	4,000,000	-	-	-	-	-	-	\$ 7,000,000
18# Fort Tuthill Waterline Loop - Phase 2	-	-	-	-	-	2,000,000	-	-	-	-	\$ 2,000,000
19 Water Resources Master Plan	145,000	-	-	-	-	-	-	-	-	-	\$ 145,000
20 First Ave TREN Waterline Replacement	249,750	-	-	-	-	-	-	-	-	-	\$ 249,750
21# Fort Tuthill Well*	772,083	3,320,000	-	-	-	-	-	-	-	-	\$ 4,092,083
22 Inner Basin Waterline	8,178,788	8,178,788	-	-	-	-	-	-	-	-	\$ 16,357,576
23 Inner Basin Line - Schultz to Reservoir Plant	-	-	-	200,000	-	-	-	-	-	-	\$ 200,000
24 Inner Basin Spring Box and Collection Rehab	-	-	-	-	200,000	-	-	-	-	-	\$ 200,000
25 LM Raw Water Pipeline Rehab**	50,000	500,000	450,000	5,000,000	-	2,000,000	-	5,000,000	-	3,000,000	\$ 16,000,000
26 Zone B Storage	50,000	-	-	500,000	500,000	-	-	-	-	-	\$ 1,050,000
27 Lake Mary Dam Repairs	150,000	-	-	-	-	-	-	-	-	-	\$ 150,000
28 Red Gap Ranch Hydrogeologic Study	-	300,000	-	-	-	-	-	-	-	-	\$ 300,000
29# Red Gap Ranch ROW Survey and Mapping	-	150,000	-	-	-	-	-	-	-	-	\$ 150,000
30# Red Gap Ranch Water Quality Study	-	-	400,000	-	-	-	-	-	-	-	\$ 400,000
31 Railroad Springs #3 Storage Tank	-	-	-	-	-	300,000	1,200,000	-	-	-	\$ 1,500,000
32 Red Gap Ranch NEPA Environ Impact Study	-	-	-	-	-	-	250,000	-	-	-	\$ 250,000
33 Red Gap Ranch NEPA Environ Impact Study*	-	-	-	-	-	500,000	250,000	-	-	-	\$ 750,000
34# Red Gap Ranch Well Completion (10 Wells)	-	-	-	-	-	-	-	-	-	450,000	\$ 450,000
35# JW Powell Waterline Oversizing	-	1,150,000	1,150,000	-	-	-	-	-	-	-	\$ 2,300,000
36# Pine Del Waterline Upsizing	-	-	-	-	-	500,000	1,000,000	1,000,000	-	-	\$ 2,500,000
37# Red Gap Ranch Geotechnical Investigation	-	-	-	-	-	125,000	-	-	-	-	\$ 125,000
38 Red Gap Ranch Geotechnical Investigation*	-	-	-	-	-	375,000	-	-	-	-	\$ 375,000
39# Red Gap Ranch Well Field Piping Design	-	-	-	-	-	-	-	-	750,000	-	\$ 750,000
40 Woody Mountain Wellfield Powerline Burial*	-	-	-	-	1,500,000	500,000	-	-	-	-	\$ 2,000,000
41 Fort Valley Shopping Center	-	-	100,000	500,000	-	-	-	-	-	-	\$ 600,000
42 Turquoise WL Replacement	-	-	-	-	-	-	100,000	1,000,000	-	-	\$ 1,100,000
43 Total CIP Budget (in current dollars)	\$ 28,647,696	\$ 23,868,788	\$ 8,690,000	\$ 11,340,000	\$ 6,830,000	\$ 8,355,000	\$ 7,830,000	\$ 8,830,000	\$ 5,780,000	\$ 5,280,000	\$ 115,451,484
44 Cumulative Projected Cost Escalation ¹	0.0%	4.0%	8.2%	12.5%	17.0%	21.7%	26.5%	31.6%	36.9%	42.3%	
45 Resulting CIP Funding Level	\$ 28,647,696	\$ 24,823,540	\$ 9,399,104	\$ 12,755,958	\$ 7,990,134	\$ 10,165,135	\$ 9,907,448	\$ 11,619,678	\$ 7,910,329	\$ 7,515,086	\$ 130,734,107
#Fully or partially funded by growth *Projects designated for partial debt funding * Full or partially grant funded project. See table three for list of grant funded projects and grant funding amounts											

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total Cost
Informed CIP Additional Costs											
46 Aging Water Infrastructure Replacements	-	-	1,800,000	2,300,000	1,600,000	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	\$ 13,200,000
47 New Well and Pumphouse	-	-	-	3,000,000	-	3,500,000	-	4,000,000	-	4,000,000	\$ 14,500,000
48 Fort Tuthill Well	-	-	3,500,000	-	-	-	-	-	-	-	\$ 3,500,000
49 Inner Basin Line - Schultz to Reservoir Plant	-	-	-	-	-	3,000,000	-	3,000,000	-	2,000,000	\$ 8,000,000
50 Inner Basin Spring Box and Collection Rehab	-	-	-	-	-	-	2,000,000	2,000,000	-	-	\$ 4,000,000
51 Red Gap Ranch ROW Acquisition Segments 1-3	-	-	-	-	-	1,000,000	1,000,000	-	-	-	\$ 2,000,000
52 Woody Mountain Wellfield Powerline Burial	-	-	-	-	-	1,500,000	-	-	-	-	\$ 1,500,000
53 ADOT Cast Iron	-	-	-	-	-	-	-	1,500,000	2,000,000	2,000,000	\$ 5,500,000
54 Annual Unfunded Projects**	-	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	\$ 9,000,000
55 Subtotal - Additional Informed CIP Project Costs	\$ -	\$ 1,000,000	\$ 6,300,000	\$ 6,300,000	\$ 2,600,000	\$ 11,500,000	\$ 5,500,000	\$ 13,000,000	\$ 4,500,000	\$ 10,500,000	\$ 61,200,000
56 Total CIP Budget (in current dollars)	\$ 28,647,696	\$ 24,868,788	\$ 14,990,000	\$ 17,640,000	\$ 9,430,000	\$ 19,855,000	\$ 13,330,000	\$ 21,830,000	\$ 10,280,000	\$ 15,780,000	\$ 176,651,484
57 Cumulative Projected Cost Escalation ¹	0.0%	4.0%	8.2%	12.5%	17.0%	21.7%	26.5%	31.6%	36.9%	42.3%	
58 Resulting CIP Funding Level	\$ 28,647,696	\$ 25,863,540	\$ 16,213,184	\$ 19,842,601	\$ 11,031,766	\$ 24,156,643	\$ 16,866,703	\$ 28,726,791	\$ 14,068,890	\$ 22,459,860	\$ 207,877,674
**See Table 2 for list of unfunded projects											

Water Capital Improvement Program Details

Table 1 - Major Projects

	Total Cost
1 Red Gap Ranch Pipeline 100% Design	\$ 12,000,000
2 Red Gap Ranch Pipeline Construction	\$ 260,000,000
Total Major CIP Projects	\$ 272,000,000

****Table 2 - Unfunded Projects**

	Total Cost
1 North Reservoir Treatment Plant	\$ 1,200,000
2 Main Tank Rehabilitation	\$ 1,200,000
3 Christmas Tree Tank Rehabilitation	\$ 500,000
4 Paradise Tank Rehabilitation	\$ 500,000
5 Bonito Load Out Station	\$ 750,000
6 Kinlani Tank Rehabilitation	\$ 100,000
7 Inner Basin Diesel Engine Replacements (IB#9, IB#11, IB#14)	\$ 150,000
8 Flow Meter Replacements	\$ 500,000
9 Inner Basin Pipeline Assessment/Design	\$ 500,000
10 Inner Basin Pipeline Rehabilitation	\$ 2,500,000
11 Lake Mary Water Treatment Plant Chlorine Dioxide Generator Replacement	\$ 200,000
12 Tuthill Booster Station Rehabilitation	\$ 300,000
Total Unfunded CIP Projects	\$ 8,400,000

+Table 3 - Grant Funded Projects

	Total Cost
1 Radio Read Meter Replacements	\$ 1,500,000
2 Lake Mary Sedimentation Basins (Flocculations)	\$ 4,125,000
3 Inner Basin Waterline	\$ 16,107,576
4 LM Raw Water Pipeline Rehab	\$ 1,500,000
5 Red Gap Ranch NEPA Environ Impact Study	\$ 750,000
6 Red Gap Ranch Geotechnical Investigation	\$ 375,000
7 Woody Mountain Wellfield Powerline Burial	\$ 1,500,000
Total Grant Funding	\$ 25,857,576

Pink Highlight = Five-Year Study Updates
 Yellow Highlight = 2015 Sewer Master Plan
 Green Highlight = Project Triggered by Development or Other Initiative

Wastewater Capital Improvement Program (CIP)

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total Cost
Approved CIP											
1 Beaulah/University Sewer Ext	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
2# Master Plan - Collections	-	-	-	400,000	-	-	-	-	-	-	\$ 400,000
3 Energy Efficiency Program	206,637	-	-	-	-	-	-	-	-	-	\$ 206,637
4 Rio Two Bar Screens	515,917	-	-	-	-	-	-	-	-	-	\$ 515,917
5 Aging Infrastructure Replacements	-	-	1,000,000	-	1,000,000	1,350,000	1,500,000	2,000,000	1,875,000	1,790,000	\$ 10,515,000
6 Reserve for Improvements	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	\$ 3,000,000
7 Rio de Flag Sewer Relocations	3,300,000	-	945,000	-	-	-	-	-	-	-	\$ 4,245,000
8 Coconino Estates - Bundle #4	875,276	-	-	-	-	-	-	-	-	-	\$ 875,276
9# Wildcat Dewatering Facility	-	1,400,000	1,700,000	3,000,000	-	-	-	-	-	-	\$ 6,100,000
10# Sewer Rate Study	25,000	-	-	50,000	-	-	-	50,000	-	-	\$ 125,000
11 First Ave Rte 66 Sewer Replacement	500,990	-	-	-	-	-	-	-	-	-	\$ 500,990
12 Country Club Interceptor to WCH	300,000	-	-	-	-	-	-	-	-	-	\$ 300,000
13 Rio Solids Treatment*	22,618,500	2,000,000	-	-	-	-	-	-	-	-	\$ 24,618,500
14 Sewer Collection AIR Assessments	50,000	-	-	-	-	-	-	-	-	-	\$ 50,000
15 Wildcat New Elect./Fiber Upgrade*	-	2,000,000	1,246,000	-	-	-	-	-	-	-	\$ 3,246,000
16 Wildcat Roof Replacement	1,000,000	2,000,000	-	-	-	-	-	-	-	-	\$ 3,000,000
17 Wildcat UV Disinfection	500,000	2,500,000	2,500,000	-	-	-	-	-	-	-	\$ 5,500,000
18 Rio Main Motor Control Centers	-	-	300,000	1,500,000	1,800,000	-	-	-	-	-	\$ 3,600,000
19 BNSF Sewer Relocations	474,037	-	-	-	-	-	-	-	-	-	\$ 474,037
20 Facility Master Plan Update	750,000	-	-	-	-	400,000	-	-	-	-	\$ 1,150,000
21 Headworks Rehab	-	-	1,500,000	1,500,000	-	-	-	-	-	-	\$ 3,000,000
22# East Industrial Sewer Improvements	-	-	-	-	520,000	-	-	-	-	-	\$ 520,000
23# Sunnyside Trunk Upsizing	-	-	-	-	260,000	-	-	-	-	-	\$ 260,000
24# Ponderosa Pkwy - McMillan Mesa	-	-	-	-	400,000	-	-	-	-	-	\$ 400,000
25# East Railhead Upsizing	-	-	-	-	-	500,000	-	-	-	-	\$ 500,000
26# University Heights Oversizing	-	-	-	-	-	-	500,000	-	-	-	\$ 500,000
27# Wildcat Solar Drying Facility	-	-	-	1,500,000	1,500,000	-	-	-	-	-	\$ 3,000,000
28 Rio Roof Replacement	-	-	-	-	-	2,500,000	-	-	-	-	\$ 2,500,000
29 Total CIP Budget (in current dollars)	\$ 31,716,357	\$ 10,200,000	\$ 9,491,000	\$ 8,250,000	\$ 5,780,000	\$ 5,050,000	\$ 2,300,000	\$ 2,350,000	\$ 2,175,000	\$ 2,090,000	\$ 79,402,357
30 Cumulative Projected Cost Escalation ¹	0.0%	4.0%	8.2%	12.5%	17.0%	21.7%	26.5%	31.6%	36.9%	42.3%	
31 Resulting CIP Funding Level	\$ 31,716,357	\$ 10,608,000	\$ 10,265,466	\$ 9,280,128	\$ 6,761,782	\$ 6,144,097	\$ 2,910,234	\$ 3,092,440	\$ 2,976,638	\$ 2,974,722	\$ 86,729,863
<i>#Fully or partially funded by growth</i>											
<i>*Projects designated for partial debt funding</i>											
Informed CIP Additional Costs											
32 Aging Infrastructure Replacements	-	-	-	-	1,000,000	650,000	500,000	-	125,000	210,000	\$ 2,485,000
33 Country Club Interceptor to WCH	-	3,000,000	3,000,000	3,000,000	-	-	-	-	-	-	\$ 9,000,000
36 Annual Unfunded Projects**	-	2,281,333	2,281,333	2,281,333	2,281,333	2,281,333	2,281,333	2,281,333	2,281,333	2,281,333	\$ 20,532,000
37 Subtotal - Additional Informed CIP Project Costs	\$ -	\$ 5,281,333	\$ 5,281,333	\$ 5,281,333	\$ 3,281,333	\$ 2,931,333	\$ 2,781,333	\$ 2,281,333	\$ 2,406,333	\$ 2,491,333	\$ 32,017,000
38 Total CIP Budget (in current dollars)	\$ 31,716,357	\$ 15,481,333	\$ 14,772,333	\$ 13,531,333	\$ 9,061,333	\$ 7,981,333	\$ 5,081,333	\$ 4,631,333	\$ 4,581,333	\$ 4,581,333	\$ 111,419,357
39 Cumulative Projected Cost Escalation ¹	0.0%	4.0%	8.2%	12.5%	17.0%	21.7%	26.5%	31.6%	36.9%	42.3%	
40 Resulting CIP Funding Level	\$ 31,716,357	\$ 16,100,587	\$ 15,977,756	\$ 15,220,910	\$ 10,600,478	\$ 9,710,512	\$ 6,429,508	\$ 6,094,519	\$ 6,269,871	\$ 6,520,666	\$ 124,641,163
<i>**see Table 2 for list of unfunded projects</i>											

Wastewater Capital Improvement Program Details

Table 1 - Major Projects

	Total Cost
1 Wildcat Expansion Design	\$ 25,000,000
2 WWTP Expansion - Design and Construction	\$ 220,000,000
Total Major CIP Projects	\$ 245,000,000

****Table 2 - Unfunded Projects**

	Total Cost
1 Anoxic Mixer	\$ 550,000
2 Influent Grit Removal	\$ 750,000
3 Improve Baffling and Weirs at Secondary Clarifiers	\$ 480,000
4 Add Post Anoxic Zone	\$ 2,152,000
5 Add Initial Anaerobic Zone	\$ 2,400,000
6 Replace All Three Anoxic Mixers on IFAS	\$ 500,000
7 Septage/Grease Station	\$ 5,400,000
8 Flagstaff Interceptor (Butler to Continental Country Club)	\$ 5,600,000
9 Wildcat Hill to Country Club	\$ 2,700,000
Total Unfunded CIP Projects	\$ 20,532,000

Reclaimed Water Capital Improvement Program (CIP)

	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total Cost
Approved CIP											
1 8" Bottleneck - Replacement*	1,521,983	1,500,000	900,000	-	-	-	-	-	-	-	\$ 3,921,983
2 Rio Reclaim Water PRV Relocation 16**	-	-	-	200,000	-	-	-	-	-	-	\$ 200,000
3 Rate Study- Reclaimed Portion	25,000	-	-	25,000	-	-	-	25,000	-	-	\$ 75,000
4 Reclaim Water Meters and Vaults*	-	200,000	-	-	-	-	-	-	-	-	\$ 200,000
5 Rio Reclaimed Pump Valve Actuators	40,000	40,000	40,000	-	-	-	-	-	-	-	\$ 120,000
6 BNSF Reclaimed Relocations	474,212	-	-	-	-	-	-	-	-	-	\$ 474,212
7 Total CIP Budget (in current dollars)	\$ 2,061,195	\$ 1,740,000	\$ 940,000	\$ 225,000	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 4,991,195
8 Cumulative Projected Cost Escalation ¹	0.0%	4.0%	8.2%	12.5%	17.0%	21.7%	26.5%	31.6%	36.9%	42.3%	
9 Resulting CIP Funding Level	\$ 2,061,195	\$ 1,809,600	\$ 1,016,704	\$ 253,094	\$ -	\$ -	\$ -	\$ 32,898	\$ -	\$ -	\$ 5,173,492
<i>*Projects designated for partial debt funding</i>											
	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total Cost
Informed CIP Additional Costs											
10 Reclaim Recharge Outfall Project*	175,000	750,000	750,000	750,000	750,000	-	-	-	-	-	\$ 3,175,000
11 AWT Sampling and Testing	-	120,000	60,000	-	-	-	-	-	-	-	\$ 180,000
12 Reclaim System PRV/ARV Assessment	-	100,000	-	-	-	-	-	-	-	-	\$ 100,000
13 Buffalo Park Tank #1 Painting	-	-	-	-	400,000	-	-	-	-	-	\$ 400,000
14 Buffalo Park Chlorine Bldg Upgrade	-	-	1,500,000	1,500,000	-	-	-	-	-	-	\$ 3,000,000
15 Reclaim Loop - Fox Glenn to Country Club	-	-	-	-	-	-	-	-	2,500,000	2,500,000	\$ 5,000,000
16 Bushmaster Park Booster Communications & Flow Mete	-	300,000	300,000	-	-	-	-	-	-	-	\$ 600,000
17 WCH Reclaim Booster Building Equipment Upgrade	-	-	-	2,000,000	2,000,000	-	-	-	-	-	\$ 4,000,000
18 AWT Pilot Project	-	-	500,000	2,500,000	-	-	-	-	-	-	\$ 3,000,000
19 Reclaim Model Projects	-	-	-	-	-	500,000	500,000	500,000	500,000	500,000	\$ 2,500,000
20 Rio Storage Tank	-	-	-	-	-	500,000	-	-	-	-	\$ 500,000
21 WCH Storage tank	-	-	-	-	-	-	500,000	-	-	-	\$ 500,000
22 Annual Unfunded Projects**	-	3,250,000	3,250,000	3,250,000	3,250,000	3,250,000	3,250,000	3,250,000	3,250,000	3,250,000	\$ 29,250,000
23 Subtotal - Additional Informed CIP Project Costs	\$ 175,000	\$ 4,520,000	\$ 6,360,000	\$ 10,000,000	\$ 6,400,000	\$ 4,250,000	\$ 4,250,000	\$ 3,750,000	\$ 6,250,000	\$ 6,250,000	\$ 52,205,000
24 Total CIP Budget (in current dollars)	\$ 2,236,195	\$ 6,260,000	\$ 7,300,000	\$ 10,225,000	\$ 6,400,000	\$ 4,250,000	\$ 4,250,000	\$ 3,775,000	\$ 6,250,000	\$ 6,250,000	\$ 57,196,195
25 Cumulative Projected Cost Escalation ¹	0.0%	4.0%	8.2%	12.5%	17.0%	21.7%	26.5%	31.6%	36.9%	42.3%	
26 Resulting CIP Funding Level	\$ 2,236,195	\$ 6,510,400	\$ 7,895,680	\$ 11,501,734	\$ 7,487,095	\$ 5,170,775	\$ 5,377,606	\$ 4,967,642	\$ 8,553,557	\$ 8,895,699	\$ 68,596,383
<i>* Full or partially grant funded project. See table one for list of grant funded projects and grant funding amounts</i>											
<i>**See Table 2 for list of unfunded projects</i>											

