Madison Water Utility

Final

2020 Capital Budget
2020-2025 CIP

Line	Project	Description/Purpose	Primary Construction Year	Tasks	Total Project Cost	Approved 2015 Budget	2016 Reauthorization	2016	2017 Reauthorization	2017	2018 Reauthorization	2018	2019 Reauthorization
			Updated:	May 14, 2019		44,745,000					Over/Under	(9,138,000)	Over/Under
						#REF!	2016 Total	12,307,100	2017 Total	5,695,000	2018 Total	8,087,000	
				Budget Goal w/ Inflation						$ 20,600,000		$ 17,225,000	
				Annual Totals		$ 10,248,100	$ 4,851,100	$ 7,456,000	$ 402,000	$ 5,293,000	$ -	$ 8,087,000	$ -
71													
72	*Pipeline Replacement/Rehab/Improvements*		Ongoing	*Total Pipe Rehab Budget*		6,338,000		5,200,000		4,000,000		4,250,000	
73	Madison Water Utility has a planned piping system replacement and upgrade program that provides for annual main replacement and rehabilitation to keep the system at an acceptable service level. Lining pipe instead of replacing it saves money and extends the useful life of existing assets. The Utility's Water Master Plan also recommends hydraulic improvements to the system to correct hydraulic bottlenecks, fire protection limitations, and other identified issues.			Water Mains - New	55,160,000	1,256,000		1,350,000		1,000,000		1,850,000	
74				Pavement Management	48,872,000	4,450,000		4,660,000		3,500,000		4,400,000	
75				Water Main Rehab-(Lining)	27,700,000	1,340,000		1,474,000		1,000,000		1,000,000	
76				Reconstruction Pipe Projects	65,688,000	6,338,000		5,200,000		4,000,000		4,250,000	
77				Hydraulic Improvement Projects	6,201,000								
78				**Total**	**71,889,000**	**6,338,000**	**-**	**5,200,000**	**-**	**4,000,000**	**-**	**4,250,000**	**-**
79													
80	*Water Utility Facility Improvements*		Annually										
81													
84		Water Supply		SCADA System Upgrade and Expansion	634,000	108,000		100,000		50,000		55,000	
85		Water Supply		Well 29 Backwash Control Upgrade									
86		Water Supply		Chemical Feed Automation									
87		Water Supply		UW 9 Booster Upgrade									
88		Water Supply		Fiber Optic system installation and upgrade	505,000	42,000		50,000		51,000		60,000	
89		Water Supply		UW 11 & 13 Flow Meter Installation	523,000	211,000		50,000		100,000		150,000	
90		Water Supply		UW 20 Reservoir Pit Upgrade									
91		Water Supply		Deep Well VFD Installs									
109		Maintenance		Various Olin Building/Site Improvements	1,230,000	70,000		-		30,000		60,000	
110		Maintenance		Unexpected Well and Booster Station Mechanical Failures									
111		Maintenance		Facility Safety and Security Upgrades	817,000	67,000		72,000		76,000		40,000	
112		Maintenance		Miscellaneous Facility Upgrade Projects	1,977,000	440,000		400,000	100,000	150,000		100,000	
113													
114				**Total**	**5,686,000**	**938,000**	**-**	**672,000**	**100,000**	**457,000**	**-**	**465,000**	**-**
115	*Meter and Fixed Network Program*												
		Meter Shop		Meter and fixed network Program	9,788,000	200,000		208,000		350,000		364,000	
	Vehicles and Equipment Program												
		Fleet and Equipment		Dump Truck Replacement									
		Fleet and Equipment		Service Truck Replacement									
		Fleet and Equipment		Small Vehicle Replacement									
		Fleet and Equipment		Backhoe Replacement									
		Fleet and Equipment		Lawn Tractor Replacement									
		Fleet and Equipment		Mapping and Survey Equipment Modernization									
		Fleet and Equipment		Small Equipment Replacement									
		Meter Shop		Upgrade Meter Test Bench #2									
		Operations		RP Valve Complete/Parts/Testing/Registration									
		Operations		Speed Shore Replacement Box; Parts and Supplies									
		Maintenance		Tools									
		Maintenance		Lifts									
				Total									
	UW Rehab Program												
		Maintenance		Annual Well Rehabs									
	Hydrant Program												
		Operations		Water Hydrant Replacement/Move/Remove Program									
	New Valve Cut-In Program												
		Operations		New Water Valve Cut-Ins									
	Chlorinators & Floridators												
		Maintenance		Chlorinators & Floridators									
116				**Total Estimated Annual Costs**	-	**10,248,100**	**4,851,100**	**7,456,000**	**402,000**	**5,293,000**	**-**	**8,087,000**	**-**
117													
118													
119													
120				**Total Check**								#REF!	

Madison Water Utility

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Final

2020 Capital Budget
2020-2025 CIP

Line	Project	Description/Purpose	Primary Construction Year	Tasks	2019	2020	2021	2022	2023	2024	2025	2026	2027
			Updated:	May 14, 2019	54,000	(559,000)	(384,040)	475,240	(666,000)	(540,570)	(1,031,000)	1,632,000	3,143,000
				Budget Goal w/ Inflation	8,780,000	9,366,000	12,802,960	17,268,240	22,188,000	20,009,430	20,610,000	21,230,000	21,870,000
				Annual Totals	*$ 8,726,000*	*$ 9,925,000*	*$ 13,187,000*	*$ 16,793,000*	*$ 22,854,000*	*$ 20,550,000*	*$ 21,641,000*	*$ 19,598,000*	*$ 18,727,000*
71													
72	***Pipeline Replacement/Rehab/Improvements***		***Ongoing***	***Total Pipe Rehab Budget***	**6,907,000**	**2,918,000**	**9,221,000**	**9,355,000**	**7,505,000**	**9,384,000**	**5,762,000**	**8,798,000**	**9,326,000**
73	Madison Water Utility has a planned piping system replacement and upgrade program that provides for annual main replacement and rehabilitation to keep the system at an acceptable service level. Lining pipe instead of replacing it saves money and extends the useful life of existing assets. The Utility's Water Master Plan also recommends hydraulic improvements to the system to correct hydraulic bottlenecks, fire protection limitations, and other identified issues.			Water Mains - New	1,382,000	4,082,000	96,000	1,780,000	4,276,000	3,081,000	5,019,000	5,320,000	5,639,000
74				Pavement Management	2,020,000	785,000	3,869,000	4,745,000	3,561,000	2,962,000	1,995,000	2,115,000	2,242,000
75				Water Main Rehab-(Lining)		200,000	709,000	2,042,000	2,401,000	2,301,000	2,184,000	2,315,000	2,454,000
76				Reconstruction Pipe Projects	4,887,000	1,933,000	4,643,000	2,568,000	1,543,000	4,121,000	1,583,000	4,368,000	4,630,000
77				Hydraulic Improvement Projects								1,100,000	1,166,000
78				**Total**	**8,289,000**	**7,000,000**	**9,317,000**	**11,135,000**	**11,781,000**	**12,465,000**	**10,781,000**	**15,218,000**	**16,131,000**
79													
80	***Water Utility Facility Improvements***		***Annually***										
81													
84		Water Supply		SCADA System Upgrade and Expansion	22,000	23,000	24,000	24,000	25,000	26,000	27,000	28,000	29,000
85		Water Supply		Well 29 Backwash Control Upgrade		34,000							
86		Water Supply		Chemical Feed Automation		14,000	15,000	15,000	15,000	16,000	16,000		
87		Water Supply		UW 9 Booster Upgrade		69,000							
88		Water Supply		Fiber Optic system installation and upgrade	20,000	22,000	23,000	23,000	24,000	25,000	25,000	26,000	27,000
89		Water Supply		UW 11 & 13 Flow Meter Installation		12,000							
90		Water Supply		UW 20 Reservoir Pit Upgrade		20,000							
91		Water Supply		Deep Well VFD Installs		103,000	38,000	39,000	40,000	41,000	42,000		
109		Maintenance		Various Olin Building/Site Improvements	345,000	60,000	25,000	403,000	27,000	27,000	28,000	29,000	30,000
110		Maintenance		Unexpected Well and Booster Station Mechanical Failures		180,000	260,000	268,000	276,000	284,000	293,000		
111		Maintenance		Facility Safety and Security Upgrades			50,000	52,000	53,000	55,000	56,000	57,000	58,000
112		Maintenance		Miscellaneous Facility Upgrade Projects	50,000	55,000	57,000	60,000	62,000	65,000	68,000	70,000	72,000
113													
114				**Total**	**437,000**	**592,000**	**492,000**	**884,000**	**522,000**	**539,000**	**555,000**	**210,000**	**216,000**
115	***Meter and Fixed Network Program***				437,000								
		Meter Shop		Meter and fixed network Program	550,000	**650,000**	**666,000**	**683,000**	**700,000**	**718,000**	**736,000**	754,000	773,000
	Vehicles and Equipment Program												
		Fleet and Equipment		Dump Truck Replacement		157,000	163,000	168,000	173,000	179,000	184,000		
		Fleet and Equipment		Service Truck Replacement		70,000	72,000	74,000	76,000	78,000	80,000		
		Fleet and Equipment		Small Vehicle Replacement		102,000	105,000	109,000	270,000	116,000	120,000		
		Fleet and Equipment		Backhoe Replacement		145,000	149,000	153,000		162,000	167,000		
		Fleet and Equipment		Lawn Tractor Replacement		9,000							
		Fleet and Equipment		Mapping and Survey Equipment Modernization		-	46,000	12,000	9,000	12,000	9,000		
		Fleet and Equipment		Small Equipment Replacement		12,000	12,000	12,000	12,000	13,000	13,000		
		Meter Shop		Upgrade Meter Test Bench #2		120,000							
		Operations		RP Valve Complete/Parts/Testing/Registration		25,000	26,000	27,000	28,000	29,000	30,000		
		Operations		Speed Shore Replacement Box; Parts and Supplies		19,000	20,000	20,000	21,000	21,000	22,000		
		Maintenance		Tools		80,000	80,000	80,000	80,000	80,000	80,000		
		Maintenance		Lifts		28,000	58,000						
				Total		**767,000**	**731,000**	**655,000**	**669,000**	**690,000**	**705,000**		
	UW Rehab Program												
		Maintenance		Annual Well Rehabs		**320,000**	**240,000**	**255,000**	**270,000**	**270,000**	**285,000**		
	Hydrant Program												
		Operations		Water Hydrant Replacement/Move/Remove Program	510,000	**550,000**	**567,000**	**583,000**	**601,000**	**619,000**	**637,000**	653,000	669,000
	New Valve Cut-In Program												
		Operations		New Water Valve Cut-Ins	15,000	**15,000**	**16,000**	**16,000**	**17,000**	**17,000**	**18,000**	18,000	18,000
	Chlorinators & Floridators												
		Maintenance		Chlorinators & Floridators	20,000	**31,000**	**32,000**	**33,000**	**34,000**	**35,000**	**36,000**	37,000	38,000
116				**Total Estimated Annual Costs**	**8,726,000**	**9,925,000**	**13,187,000**	**16,793,000**	**22,854,000**	**20,550,000**	**21,641,000**	**19,598,000**	**18,727,000**
117													
118													
119													
120				**Total Check**	**#REF!**	**9,925,000**	**13,187,000**	**16,793,000**	**22,854,000**	**20,550,000**	**21,641,000**	**19,598,000**	**18,727,000**