Ovalit	s and Reliability since 1882	Madison Water Utility - 201 2016-2030 Capital Improve	•								
	- 3:	ZU10-ZU3U Capitai iiiipi Uvei	Them budy								
W	ater IIII		Updated:	May 20, 2015							
U	tility mwn										
		Cash Flow D		Annual Totals	\$ 27,098,000	\$ 29,553,000	\$ 23,377,000	\$ 22,765,000	\$ 24,176,000	\$ 21,653,800	\$ 25,749,700
			Primary Construction								
Line	Project	Date/Description/Purpose	Year	Tasks	2016	2017	2018	2019	2020	2021	2022
1	Arbor Hills Supplemental Fire	Flow Supply - BPS 118	2011	_							
2		ucted and put into service in 2012. The last phase of the project	, Phase 4 of the	Cannonball Pipeline	642,000						<u> </u>
3	Cannonball Pipeline is budgeted to be	constructed in 2016 in conjunction with bike path work.		Project Total	642,000	-	-	-	-	-	-
14	Booster Pump Station #106 R	Reconstruction	2013								
	-	d in 2014. To fully benefit from the pump station upgrade, hydra		Pipeline Improvements							
19	improvements to the distribution syste		. ,		981,000			1,429,000			
20				Project Total	981,000	-	-	1,429,000	-	-	-
21											
22	Paterson Street Building Rem	nodel and Upgrade	2015								
23		nter at Paterson Street is currently scheduled to start construction		Public Engagement	10,000	10,000					
24		2017. The existing facility is outdated and cramped and in need or over 10 years. The vehicle maintenance area is too small for		Architectural Services/Review Vehicle Storage Building	261,000	120,000 1,500,000	400,000				
25	and compromises employee safety. But	uilding air quality and ventilation does not meet modern standar	ds. The office space,				,				
26		age spaces do not meet current needs. The project also include ill free up space in the vehicle storage building and improve effice		Furnishings and Equipment	250,000	270,000					
20	operations. This portion of the project	will be constructed in 2017. Utility staff have been working close		Fleet Maintenance and Office							
28	on efficient and effective use of the pro	operty considering the long term redevelopment of the area.		Building Construction	5,000,000	1,400,000					
29				Project Total	5,521,000	3,300,000	400,000	-	-	-	-
30		((()	2045			_					
31	Lakeview Reservoir Reconstr	• • •	2015	Public Engagement	5,000	5,000	5,000				
33		ir started in 2015. Reconstructing the Lakeview Reservoir will reprovide much needed additional gravity fed water storage in Zo		Engineering Services		50,000	3,000				
	side of the City. Storage is needed in a	Zone 6E to provide additional operational flexibility and emerger	ncy backup. The	Construct Two Zone Lakeview		,					
34		zone facility to optimize the use of the site. This project is justificing capacity and reliability to both Pressure Zone 5 and Pressure		Reservoir System Hydraulic Water Main	2,200,000						
35	foundation will be complete in the sum	mer of 2015, the tank complete in the spring of 2016, and paint		Improvements			695,000				
	in the summer of 2016.			Upgrade Booster Pumps @							
36			-	Res. 113 Water Main Improvements @			920,000				
37				Res 113		796,000					
38				Project Total	2,295,000	851,000	1,620,000	-	-	-	-
39											
40	UW 29 Filter Capacity Expans		2018	Facility			Start Const				
	The filter system at Unit Well 29 was of concern with contaminants under the	constructed with 50% capacity of the well. The filters are rated a Sycamore Landfill. A sentinel well was installed between the lan	t 1,100 gpm due to a	Engineering Services							
41	monitor water quality. Current pumping	g and water quality data show no indication of a problem with th	e Sycamore Landfill				54,000				
		sentinel well. It is proposed to increase the capacity of the filtra		Increase Filter Capacity							
42		while maintaining the annual pumping at no more tha 560 million by and peak demand supply capacity on the east side.	ı yalıvıs. 11115				450,000				
44	<u>'</u>			Project Total	-	-	504,000	-	-	-	-

Madison Water Utility - 2016 Capital B											
Quali	ity and Reliability since 1882	2016-2030 Capital Improve	ment Budç	jet							
Madison Water			Updated:	May 20, 2015							
U	tility mwn										
		Cash Flow D		Annual Totals	\$ 27,098,000	\$ 29,553,000	\$ 23,377,000	\$ 22,765,000	\$ 24,176,000	\$ 21,653,800	\$ 25,749,700
			Primary Construction								
Line	Project	Date/Description/Purpose	Year	Tasks	2016	2017	2018	2019	2020	2021	2022
45											
46	Zone 4 Fire Flow Supply Augr		2015			Filter Const					
47		construction of the site ground reservoir. The well house, filter, and an arrest a significant system deficiency identifies		Public Engagement		_					
48		ell 31 project will correct a significant system deficiency identified the system. Due to significant expansion of the system over the		Drill Production Well Engineering Services		123,000	123,000				
50	and east, the hydraulics of the system	will not adequately serve this area for fire flow supply or system	reliability and	Construction	200,000	2,940,000	1,160,000				
	redundancy. Adding a second source of service for the area up to Utility stan	of supply to the area will improve fire flow capacity and bring the	e water system level	Hydraulic Improvement		, ,	, ,				
52	of service for the area up to offinty start	iudius.		Pipelines				744,000			
53				Project Total	200,000	3,063,000	1,283,000	744,000	-	-	-
54 55	Unit Well 12 Conversion to a	Two Zone Well	2015			-					
56				Engineering Services	10,000	_					
58	operational flexibility and reliability to the	I that Well 12 be converted to a two zone well. This conversion we west side supply system. Pumps and a pressure reducing variable.	will provide alve will be added to	Well House Construction	750,000						
59	the Well 12 facility to move water from	Pressure Zone 7 to Pressure Zone 8 or from Pressure Zone 8 to	to Pressure Zone 7.	Water Main Improvements	620,000						
60				Project Total	1,380,000	-	-	-	-	-	-
61	Harris In a C DDO 445		2045			_					
62	Upgrade of BPS 115	445 'H 'H ' ' ' ' '.	2015	Engineering Services		_					
63	Ine upgrade of Booster Pump Station area. The station will also provide the I	115 will mitigate a long standing low pressure problem in the Buttlily with operational flexibility and an supplemental water sup	unker HIII Reservoir ply point to the east	Upgrade BPS 115 to a 2 Zone		_					
64	side of I-90. The station will transfer wa	ater from Zone 6E to Zone 3 and back again through a PRV. UV	W Hospital is building	facility with Generator							
65	a new facility in the American Family a 3 with a redundant feed from Zone 6.	rea and requires a redundant water supply. This project will pro	vide Pressure Zone	Water Main Improvements							
66	3 Will a redundant feed from Zone 6.			Project Total	-	-	-	-	-	-	-
67	Iron and Manganese Filter at	Mall 10	2016		Start Const	_					
68			"	Public Engagement		-					
69	elevated levels of iron and manganese	e <u>se Filter at Well 19</u> will address the water quality in the Well 19 e. The Well 19 iron and manganese levels exceed Madison Wat	er Utility water	. 320 =119090110111	10,000						
	quality goals. Accumulation of iron and	d manganese solids in the distribution system results in a need	for additional	Engineering Services							
70		water reaching customers. Removing the iron and manganese pality and reduces the need for frequent flushing. The project w		F% 0	195,000	180,000					
71	customers in the west campus area in	Pressure Zone 6W. The budget anticipates starting construction		Filter Construction	800,000	2,900,000					
72	with the facility in full operation in 2017	7.		Project Total	1,005,000	3,080,000	- 1	-	-	-	_
73					, ,						
74	Far West Elevated Reservoir		2017			Start Const					
75		ervoir is needed due to additional grow on the west side. The tow		Public Engagement		5,000	5,000				
76	Pressure Zones 10 and 11 and supple	ment the storage at High Point Road. The Far West Side Elevaed water storage capacity within Pressure Zone 10 and will add	ted Reservoir	Engineering Services Construct 1 MG reservoir		125,000	90,000				
77	capacity to current Zone 11. The 250,0	000 gallon High Point Road reservoir is reaching its capacity and	d does not provide			2,650,000	650,000				
78	sufficient emergency reserve capacity.	. Providing minimum fire flow requirements to this area of the dis	stribution system is	Reservoir piping improvements			510,000				
79	improving reliability. This 2006 Water N	ndards. The project also provides a second feed to the area by Master Plan identified two elevated reservoirs for the far west sign	using BPS 128 de and this proiect	Water Main Improvements			694,000		736,000		
80	will combine those two projects into a s			Project Total	190,000	2,780,000	1,949,000	-	736,000	-	-

	Ţ	Madison Water Utility - 20	•								
	ly and Reliability since 1882	2016-2030 Capital Improve	ement Budg	get							
	ater		Updated:	May 20, 2015							
	tility mwn										
		Cash Flow I	Draft	Annual Totals	\$ 27.098.000	\$ 29.553.000	\$ 23.377.000	\$ 22.765.000	\$ 24.176.000	\$ 21.653.800	\$ 25,749,700
			Primary	7 1111101011 7 0 0 0 1 0	<u> </u>	2 7,555,655	2 2 3 3 7 1 1 1 1 1 1 1 1 1 1	ψ =2 ,7 03,000	2 1,17 3,000	21 /000/000	+ = = = = = = = = = = = = = = = = = = =
			Construction		22/2		2212	2010			
Line	Project	Date/Description/Purpose	Year	Tasks	2016	2017	2018	2019	2020	2021	2022
81 82	Zone 7 & 8 Supplemental Sup	only - Whitney Way	2024			-					
83	-	ends an additional well to serve both Pressure Zones 7 and 8		Public Engagement		-		15,000	10,000		
	flexibility and system reliability. This re	ecommendation was verified in 2009 in an analysis of the water	r demand in Zone 7.	Site Selection and Property				,	,		
84		ty to pump water to either Zones 7 or 8 will provide additional		Purchase		_			321,000		
85 86		ability and redundancy. This facility will provide significant oper and ultimately benefit 5 different pressure zones across the e		Drill test well Drill production Well		-			135,000	1,077,000	
87	Projected development and growth on	the west side and the Utility stated policy of limiting average	vell pumping to 50% of	Well Siting Eng Services		-		30,000	75,000	25,000	
88	capacity for long term groundwater mates be under construction in 2024.	anagement make this an important water supply project. This	new well is projected to	Unit Well Engineering Services							
	be under construction in 2024.			Construct Facility		-					
90	_			Project Total				45,000	541,000	4 402 000	
91 92				Project Total	-	-	<u> </u>	45,000	541,000	1,102,000	
93	Unit Well No. 8 - Re-Construc	tion	2021							Start Const	
94	Unit Well No. 8 Re-Construction will	totally upgrade and replace Well 8. The project will install a fi	ter for iron and	Public Engagement	10,000	5,000	10,000	5,000	10,000	10,000	5,000
	manganese to address current water of	quality issues at Well 8. Due to the colored water resulting from	n the iron and	Groundwater Study	50,000						
		y limited to summer only and a total production of approximate s verified by the East Side Water Supply project and a public e		Sentinel Wells			100,000				
95	has started. Due to concerns about the	e nearby KIP Corporation contamination and neighborhood co	ncerns about the	Engineering Services		_			448,000	300,000	150,000
0/		n delayed. The Utility will continue to study the KIP contamina		Property Acquisition and				50,000	300,000	50,000	
96		. Installation of an iron and manganese filter would allow the we e project for the future addition of an air stripper if VOC contai		Permitting Well 8 Re-Construction		-		50,000	300,000	50,000	
97	site were to reach the well. The project	t will benefit existing customers in the East Isthmus area and				_				2,410,000	4,490,000
00	the water pumped from Well 8. Constr	ruction is currently scheduled to start in 2021.		Hydraulic Improvement							
98				Pipelines Project Total	60,000	5,000	110,000	55,000	758,000	2,770,000	4,645,000
100	-			110,00110101	00,000	0,000	110,000	33,000	700,000	2,110,000	4,040,000
101	VOC Air Stripper at Well 18		2019					Start Const			
102		t Well 18 will address the pending water quality and regulator		Public Engagement		10,000	10,000	10,000			
103		cent Water Quality monitoring at the well has indicated an incr nanges may result in lower VOC limits dictating the need to tre		Engineering Services			250,000	150,000	100,000		
103	18. Well 18 provides an excellent sour	rce of water to the south side of Madison within Pressure Zone	e 6W and it is in the	VOC Treatment Construction		-	250,000	,	·		
104	Utility's best interests to maintain the v	well. The proposed budget anticipates starting construction of	an air stripper at Well					1,500,000	2,300,000		
105 106				Project Total	-	10,000	260,000	1,660,000	2,400,000	-	-
106	Iron and Manganese Filter at	Well 30	2023								
		t Well 30 exceed Utility water quality standards and guidelines		Public Engagement							45.000
108	Iron and Manganese Filter at Well 30	will address the water quality issues and risk of colored water	events and customer	Engineering Services							15,000
109	complaints in the Well 30 service area of colored water events due to the acc	 Annual system flushing is required in the Well 30 service are cumulation of iron and manganese solids in the system. A filter 	a to minimize the risk								325,000
110	finished water quality and reduce the i	need for annual flushing in the Well 30 service area. The budg	et anticipates	Filter Construction							
111	construction of a filter starting in 2023			Project Total	_	_	-	_	-		340,000
112	-										-,

į		Madison Water Utility - 2016 Capital Budget									
The state of the s	and Reliability since 1882	2016-2030 Capital Impro	vement Budg	get							
Madison Water			Updated:	May 20, 2015	13						
U	tility mwn										
		Cash Flow	Draft	Annual Totals	\$ 27,098,000	\$ 29,553,000	\$ 23,377,000	\$ 22,765,000	\$ 24,176,000	\$ 21,653,800	\$ 25,749,700
			Primary Construction								
Line	Project	Date/Description/Purpose	Year	Tasks	2016	2017	2018	2019	2020	2021	2022
113	Booster Pump Station 129 Re		2024	D.1.5							
114		booster pump station 129 is scheduled for 2017. This pro on the Well 29 site in 1990. Pump Station 129 will continu		Public Engagement Engineering Services							
115 116		rough a PRV. This operation will provide supply and fire f		Water Main Improvements							
117	side of the system. It will benefit customers through gained reliability and flexibility of operations.		Construct BPS 129								
118				Project Total	-	-	-	-	-	-	-
119				_							
120	East Side Replacement Well	(Well 3)	2025								
121		y 2008 due to elevated levels of Carbon Tetrachloride. Th		Public Engagement							
122		essure Zone 6E. The need for a replacement well was ve		Drill test well and WQ analysis							
		well will restore lost supply redundancy and reliability to a		Well Siting Consultant							
123	the well will need a filter for iron and manganese removal and this is included in the budget for the project. One site identified for this well during the East Side Water Supply Project was at the Felland Road Reservoir. This site would have the distinct advantage of filling in a gravity reservoir and for providing the ability to pump to Zone 3 providing additional			Property Purchase Drill new production Well							
124 125				Engineering Services							
126	supply redundancy and operational fle	exibility.		Construction of well and filters							
127				Pipeline Improvements							
128				Project Total	-	-	-	-	-	-	-
129											
130	Booster Pump Station/PRV 1	24 Construction	2026								
131		station 124 to transfer water across the Yahara River and		Public Engagement							
132		124 will transfer water from Zone 6W to Zone 6E and ba through gained reliability and flexibility of operations. The		Engineering Services							
133		needed during a water shortage or equipment maintenar		Property Procurement Water Main Improvements							
134		3 · · · · · · · · · · · · · · · · · · ·		Construct BPS 124							
135				Project Total	-	-	-	-	-	-	-
136											
137	Reconstruct Well 14 with Na	and Cl Project	2029								
138		of water to the west side of Madison and it is in the Utility		Public Engagement							
139		Due to winter road salt operations on University Avenue a		Engineering Services							
		ide levels in the water pumped from Well 14 have been ri reduce the Na and CI concentrations at Well 14.	sing for several years. This	Property Purchase							
	project will investigate diterriatives to	roduce the Na and or concentrations at well 14.		Well 14 Facility and Well							
140				Modifications							
141				Project Total	-	-	-	-	-	-	-
142	D		0000								
143	Pressure Zone 9 Storage		2030	Dublia Engage and							
144 145		e 9 was identified in the Water Master Plan as being defined in 2011 and 2012 with a 400 000 gallon tank, this situ		Public Engagement Reservoir Property Purchase							
145	mitigated. A second reservoir with a c	oad in 2011 and 2012 with a 400,000 gallon tank, this situ apacity of 750,000 gallons will resolve the remainder of tl	auon was partially ne Zone 9 storage	Engineering Services							
1 10	deficiency. An elevated reservoir in th	e western portion of Zone 9 will provide hydraulic balance	e to the system. Pressure	Construct 750,000 gallon							
147	Zone 9 has developed significantly wi	th not only residential but commercial and institutional fac	cilities. The fire flow	elevated reservoir							

	Ţ	Madison Water Utility - 2010	_								
	and Reliability since 1882 adison	2016-2030 Capital Improver	nent Budo	get							
W	adison ater illi www.		Updated:								
U	ility mww	Cach Flam	1100								
		Cash Flow D		Annual Totals	\$ 27,098,000	\$ 29,553,000	\$ 23,377,000	\$ 22,765,000	\$ 24,176,000	\$ 21,653,800	\$ 25,749,700
			Primary Construction		22/2		22/2	2012			
Line	Project	Date/Description/Purpose his development to the point that current facilities do not meet mi	Year	Tasks	2016	2017	2018	2019	2020	2021	2022
148	requirements have increased due to the	is development to the point that current facilities do not meet mi	minum standards.	Reservoir Pipeline Construction							
149 150				Project Total	-	-	-	-	-	-	-
150	Pump Station 220 - Raymond	Road PS	2030			-					
152		on with the Pressure Zone 9 elevated reservoir is proposed on the		Public Engagement							
153		0 and back again through a pressure reducing valve. The propo				_					
	will setup operational flexibility within F	Pressure Zones 7, 9 and 10. The station will transfer water from 2	Zone 7 to Zones 9	Property Procurement							
		This operation will provide the ability to share water supply res		Dual Zone Pump Station							
154	zones and fully use existing facilities in providing operational flexibility. The project will also provide supply redundancy to the far west side.			Construction		_					
156	the fail west side.			Booster Station Piping Upgrade							
157				Project Total	_	-		_	_		_
157				1 Toject Total	-	_	_		_	_	
159	Booster Pump Station 109 (Sp	paanem Ave)	2024								
160	, ,	vinds, Pressure Zone 4 will have additional capacity. This addition		Public Engagement							
		igh the proposed booster pumping station. Booster Pump Station		Site Selection and							
	east side operational functionality and	improves reliability to the water supply system. The pump statio	n will move water	Property Purchase							
161		ne 6E and a pressure reducing valve station will allow water to m	ove from Pressure	(If Required)							
162	Zone 6 E to Pressure Zone 4. This pro	ject was identified in the Water Master Plan.		Engineering Services							
164				Construct BPS 109 Water Main Improvements		-					
165 166				Project Total		_		<u> </u>	_		_
167				110,000 10101							
168	Booster Pump Station 114		2026			_					
169	•	the ability to move water from Pressure Zone 6W to Zone 8 and		Public Engagement							
	improves the operational flexibility of the	ne west side supply system and provides the means of spreading	g out the current	Site Selection and							
170		m. Construction of BPS 114 will benefit west side customers thro	ugh gained system	Property Purchase							
171	reliability and redundancy.			Engineering Services							
173 174				Construct BPS 114 Water Main Improvements							
174				Project Total		-	<u>-</u>	_	_		_
175				1.0,000.1000		_			_		
177	Northeast Side Supplemental	Water Supply (American Family)	2028								
178		ended an additional well on the east side that could provide water		Public Engagement							
179	3. The need for this well was verified d	luring the system analysis completed for the East Side Water Su	pply project. The	Property Purchase							
		NE corner of the system and would provide water to Zones 3 and the system and would provide water to Zones 3 and the system an		Well Siting Consultant							
180	has been identified at this point, the Utility owns property for this purpose on Hoepker Road. A public participation process is expected to be used to site the well and develop the details of this project. Continued development pressure on the east		Drill test well								
181	is expected to be used to site the well and develop the details of this project. Continued development pressure on the east side and the need for reliability and redundancy in the NE corner of the water system is the focus of this project.		Drill Production Well								
182	,		. ,	Engineering Services Construction of Unit Well, Filter,							
183				Reservoir and Pump Station							
100				1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				I	<u> </u>		

	j	Budget									
Qualit	y and Reliability since 1882	2016-2030 Capital Improver	ment Budg	get							
Madison Water			Updated:	May 20, 2015							
U	tility mww										
		Cash Flow D	rait	Annual Totals	\$ 27,098,000	\$ 29,553,000	\$ 23,377,000	\$ 22,765,000	\$ 24,176,000	\$ 21,653,800	\$ 25,749,700
Line	Project	Date/Description/Purpose	Primary Construction Year	Tasks	2016	2017	2018	2019	2020	2021	2022
185	rroject	Date/Description/r drpose	7 04.	Pipelines	2010	2017	2010	2013	2020	2021	ZOZZ
186				Project Total	-	-	-	-	-	-	-
187											
188	Near West Side Water Supply Project (Glenway) 2031			Dublic Engagement							
189	Construction of an additional well on the near west side has been in the Water Master Plan to mitigate an anticipated supply deficiency in Pressure Zones 6 and 7. The <i>Near West Side Water Supply Project</i> will provide additional water			Public Engagement Site Selection and Property							
190	supply capacity to both Zones 6 & 7. T	he final location of the proposed well will be determined followin	g a significant	Purchase							
191	public participation process and evaluation period.			Drill Test Well							
192				Drill production Well Engineering Services							
193				Construction of Unit Well, Filter,							
194				Reservoir and Pump Station							
196				Project Total	-	-	-	-	-	-	-
197											
198	Booster Pump Station 320		2033	B.I.E. E.							
199		the Utility with operational flexibility on the west side. The statio ack again through a PRV. This operation will provide flexibility in		Public Engagement Site Selection and Property							
200		efit customers through gained system reliability.	i source or supply to	Purchase							
201	j			Engineering Services							
203				Construct BPS 320							
204				Water Main Improvements Project Total	_	-		<u> </u>	_	_	<u> </u>
206				110,000 10141	_						
207			Pipe Replace	ment Reinvestment Budget Goal			Pipe Replacement Rei	nvestment Budget Goal	14,020,000		
208	Pipeline Replacement/Rehab/		Ongoing	Total Pipe Rehab Budget	11,719,000	12,155,000	12,965,000	13,839,000	14,782,000	14,782,000	15,301,000
209		stem replacement and upgrade program that provides for annuging infrastructure indicates the Utility people to replace or rehab		Reconstruction Pipe Projects Resurfacing Pipe Projects	5,200,000 4,660,000	5,408,000 5,126,000	5,624,000 5,639,000	5,849,000 6,203,000	6,083,000 6,823,000	6,083,000 6,823,000	6,235,000 7,096,000
210		ging infrastructure indicates the Utility needs to replace or rehab new and maintain the system. A planned annual increase in spe			1,474,000	1,621,000	1,702,000	1,787,000	1,876,000	1,876,000	1,970,000
212	this goal by 2050 will be continued. Th	e Utility's Water Master Plan also recommends hydraulic improv		Verona Road Pipeline	385,000	, , , , , ,	, - ,	, = ,= ,= ,=	, -,	, -,	, -,
213	system.			East Johnson			. ====	/	, 222		
214				New Pipeline Projects Master Plan Hydraulic	1,350,000	1,451,000	1,560,000	1,677,000	1,803,000	1,803,000	1,893,000
215				Improvement Pipe Projects		500,000	560,000	627,000	702,000		786,000
216				Project Total	13,069,000	14,106,000	15,085,000	16,143,000	17,287,000	16,585,000	17,980,000
217						P		nvestment Budget Goal	3,890,000		
218	Misc. Pump Station/PRV/Facil	lity Projects	Ongoing				Pipe Hydraulic Upg	grade Investment Actual	3,679,000		
219	<u>, </u>	us minor improvement projects that are necessary to sustain the	Ongoing a actablished lavel	PRV Station Gammon Rd							
221		ese projects are itemized under a single heading. Pressure Red		Chemical Feed Room Mods		350,000	1	400,000			450,000
222		as needed to reduce areas of excessive pressure.	-	PRV Projects 2 per year			60,000		64,000		68,000
223				Misc. Projects	400,000	420,000	441,000	463,000	486,000	150,000	510,000
224				Engineering Services	48,000	92,000	60,000	104,000	66,000	18,000	123,000

	1	Madison Water Utility - 2	016 Capital B	Budget							
Qualit	by and Reliability since 1882	2016-2030 Capital Impro									
M	adison ater		Updated:	May 20, 2015							
Utility mwu		Cash Flow Draft		Annual Totals	\$ 27,098,000	\$ 29,553,000	\$ 23,377,000	\$ 22,765,000	\$ 24,176,000	\$ 21,653,800	\$ 25,749,700
Line	Project	Date/Description/Purpose	Primary Construction Year	Tasks	2016	2017	2018	2019	2020	2021	2022
225				Project Total	448,000	862,000	561,000	967,000	616,000	168,000	1,151,000
226				,	-,	7.7.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,222		, , , , , , , ,
227	System Wide Misc Projects		Ongoing								
	Several system wide tasks are includ	ed in the Capital Budget that cover a variety of repair, rehal	bilitation, and upgrade	SCADA Maintenance and							
230		anagement Plan recommends a reinvestment of \$2.5 (2005)		6 Year Upgrade	100,000	40,000	40,000	40,000	41,000	42,000	43,100
231		e long term. This would include Unit Well, pump station, an	nd reservoir improvements	Video System Upgrades	43,000	44,000	45,000	46,000	20,000	20,800	21,600
232	and renewal. For budgeting purposes	s, these projects are itemized under a single heading.		Flow Meter and VFD Retrofit		200,000	206,000	212,000	218,000		
233				Meter Program	208,000	216,000	225,000	234,000	243,000	253,000	263,000
				Private Well Connection							
234				Program							
235				Safety Additions to the Plant	72,000	76,000	80,000	84,000	88,000	92,000	97,000
236				Olin Admin Office Maintenance	51,000	55,000	59,000	63,000	143,000	73,000	78,000
				Unit Well/PS/Reservoir							
237				Rehab/Maintenance	750,000	825,000	908,000	999,000	1,039,000	500,000	1,081,000
				Paterson Vehicle							
238				Storage Bldg Maintenance	58,000	20,000	21,000	22,000	23,000	24,000	25,000
				Paterson Office	05.000	00.000	04.000	00.000	00.000	04.000	25.222
239	4			and Shop Maintenance	25,000	20,000	21,000	22,000	23,000	24,000	25,000
240	1			Project Total	1,307,000	1,496,000	1,605,000	1,722,000	1,838,000	1,028,800	1,633,700
241				7.15.0 . 10 . 10 . 1							
242				Total Estimated Annual Costs	27,098,000	29,553,000	23,377,000	22,765,000	24,176,000	21,653,800	25,749,700
242					21,030,000	23,333,000	20,577,000	22,703,000	27,170,000	21,033,000	23,173,100

Facility Reinvestment and Renewal Goal

Facility Reinvestment and Renewal Actual

243

244

Facility Reinvestment and Renewal Goal

Facility Reinvestment and Renewal Actual

3.89

1.32