

**Capital Replacement Program
Hildale-Colorado City**

AWWA Cash-Needs Approach

Exhibit 1

Date: 5/12/23
System Number: 0
Service Connections: 1,035

Quantity	Asset	Year Acquired	Unit Cost (Historic, Current or Future)	Cost Type (H, C, F)	% Belonging to Water	Estimated Historic Cost (Water only)	Normal Estimated Life	Current Age	Estimated Current Cost	Planned Remaining Life	Estimated Remaining Life	Estimated Future Cost	Fund with Cash	Fund with Grant	Fund with Loan	Existing Reserves	Annual Reserve Required
Replacement of Existing Capital Assets																	
Wells																	
1	Well 4 - 140' 8" 190gpm	2021	200,000	H	100%	\$200,000	50	2	210,125	48	49	1,133,848	0%	0%	100%	0	0
1	Well 4B - 140' 6"	1985	200,000	C	100%	\$76,420	50	38	200,000	12	13	312,791	15%	40%	45%	6,639	1,991
1	Well 4 Pump (15 horsepower)	2021	200,000	H	100%	\$200,000	30	2	210,125	28	29	569,833	5%	40%	55%	6,639	654
1	Well 4B Pump (5hp)	2018	5,000	C	100%	\$4,405	30	5	5,000	25	26	12,230	100%	0%	0%	3,160	306
1	Well 8 - 140' 8" 60gpm	1995	200,000	C	100%	\$98,437	50	28	200,000	22	23	441,223	15%	40%	45%	18,958	1,823
1	Well 8 Pump (15 horsepower)	1995	20,000	C	100%	\$9,844	30	28	20,000	2	3	22,174	100%	0%	0%	12,639	3,123
1	Well 10 - 100' 8" 85gpm	1995	200,000	C	100%	\$98,437	50	28	200,000	22	23	441,223	15%	40%	45%	18,958	1,823
1	Well 10 Pump (15 horsepower)	1995	20,000	C	100%	\$9,844	30	28	20,000	2	3	22,174	100%	0%	0%	12,639	3,123
					100%								0%	0%	100%	0	0
1	Well 11 - 140' 8" 130 gpm	1995	200,000	C	100%	\$98,437	50	28	200,000	22	23	441,223	15%	40%	45%	18,958	1,823
1	Well 11 Pump (15 horsepower)	1995	20,000	C	100%	\$9,844	30	28	20,000	2	3	22,174	100%	0%	0%	12,639	3,123
1	Well 15 - 65' 10"SS	2022	30,000	C	100%	\$29,250	100	1	30,000	99	100	935,742	5%	40%	55%	948	306
1	Well 15 Pump (15 horsepower)	2022	20,000	C	100%	\$19,500	30	1	20,000	29	30	56,136	25%	0%	75%	3,160	314
1	Well 19 - 580' 8" 145gpm	1980	300,000	C	100%	\$101,000	50	43	300,000	7	8	395,043	15%	40%	45%	28,437	3,660
1	Well 19 Pump (40 horsepower)	2019	12,000	C	100%	\$10,844	30	4	12,000	26	27	30,379	100%	0%	0%	7,583	738
1	Well 21 - 600' 12" 210gpm	1985	300,000	C	100%	\$114,630	50	38	300,000	12	13	469,187	15%	40%	45%	28,437	2,987
1	Well 21 Pump (60 horsepower)	2022	14,000	C	100%	\$13,650	30	1	14,000	29	30	39,295	100%	0%	0%	8,847	878
					100%								0%	0%	100%	0	0
1	Well 22 - 600' 14" 120gpm	2021	300,000	H	100%	\$300,000	50	2	315,188	48	49	1,700,772	5%	40%	55%	9,959	1,239
1	Well 22 Pump (75 horsepower) (Will replace with smaller)	2021	12,000	C	100%	\$11,408	30	2	12,000	28	29	32,543	100%	0%	0%	7,583	747
					100%								0%	0%	100%	0	0
1	Well 24 - 140' 8" 80gpm	1995	200,000	C	100%	\$98,437	50	28	200,000	22	23	441,223	15%	40%	45%	18,958	1,823
1	Well 24 Pump (15 horsepower)	1995	20,000	C	100%	\$9,844	30	28	20,000	2	3	22,174	100%	0%	0%	12,639	3,123
					100%								0%	0%	100%	0	0
1	Academy Well - 600' 12" 265gpm	2018	250,000	H	100%	\$250,000	50	5	282,852	45	46	1,376,624	5%	40%	55%	8,937	1,064
1	Academy Well Pump (60 horsepower)	2016	14,000	C	100%	\$11,726	30	7	14,000	23	24	31,967	100%	0%	0%	8,847	852
					100%								0%	0%	100%	0	0
	Power Plant Well - 6" 244gpm Out of Service?	1996			100%		50	27		23	24		0%	0%	100%	0	0
	Power Plant Well Pump (60 hp)	2022			100%		30	1		29	30		0%	0%	100%	0	0
	Power Plant Well Building				100%								0%	0%	100%	0	0
					100%								0%	0%	100%	0	0
Springs																	
1	Jans Canyon Spring Collection - 2" 16gpm	1980	50,000	C	100%	\$16,833	100	43	50,000	57	58	367,714	15%	40%	45%	4,739	681
					100%								0%	0%	100%	0	0
5,146	Jans Canyon Spring Transmission Line - 2"	2015	3	C	100%	\$12,607	75	8	15,438	67	68	160,153	25%	0%	75%	2,439	418
1	Maxwell Canyon Spring Collection - 4" 64gpm	1980	100,000	C	100%	\$33,667	100	43	100,000	57	58	735,428	5%	40%	55%	3,160	454
1	Maxwell Canyon Spring Box	1910	10,000	C	100%	\$572	100	113	10,000	-13	20	19,898	100%	0%	0%	6,319	610
7,960	Maxwell Canyon Spring Transmission Line - 4"	2015	13	C	100%	\$84,507	75	8	103,480	67	68	1,073,495	5%	40%	55%	3,270	560
Storage																	
-	Saddle Tank - 60k gallons	1960 ish?			100%		55	#VALUE!		#VALUE!			0%	0%	100%	0	0
1	800k gallon tank	1998	1,250,000	C	100%	\$663,782	55	25	1,250,000	30	31	3,631,289	5%	40%	55%	39,495	3,950
1	600k gallon tank	1970	950,000	C	100%	\$248,295	55	53	950,000	2	3	1,053,282	5%	40%	55%	30,016	7,418
1	Elm Street Tank (Concrete) - 1MG	2000	1,825,000	C	100%	\$1,019,457	80	23	1,825,000	57	58	13,421,565	5%	40%	55%	57,663	8,284
Treatment																	
1	Treatment Plant Building	1975	75,000	C	100%	\$22,248	50	48	75,000	2	3	83,154	25%	0%	75%	11,849	2,928
3	Pressure Tanks (West Side) (Recoated in 2021)	2001	110,000	C	100%	\$189,067	30	22	330,000	8	9	449,756	15%	40%	45%	31,280	3,798
3	Pressure Tanks (East Side) (Recoated in 2004)	1975	110,000	C	100%	\$97,889	30	48	330,000	-18	15	552,865	5%	40%	55%	10,427	1,053

8	Treatment Plant Pumps (40hp)	2005	6,250	H	100%	\$50,000	20	18	77,983	2	3	86,461	25%	0%	75%	12,320	3,045
	Distribution System				100%								0%	0%	100%	0	0
14,232	2" Pipe	1995	3	C	100%	\$21,014	100	28	42,696	72	73	526,057	5%	40%	55%	1,349	253
5,029	4" Pipe	1995	13	C	100%	\$32,178	100	28	65,377	72	73	805,509	5%	40%	55%	2,066	388
73,286	6" Pipe	1995	46	C	100%	\$1,659,245	100	28	3,371,174	72	73	41,536,199	5%	40%	55%	106,517	20,013
107,290	8" Pipe	1995	50	C	100%	\$2,640,322	100	28	5,364,480	72	73	66,095,694	5%	40%	55%	169,498	31,847
5,280	12" Pipe	1995	65	C	100%	\$168,918	100	28	343,200	72	73	4,228,563	5%	40%	55%	10,844	2,037
16	2" Valve	1995	200	C	100%	\$1,575	40	28	3,200	12	13	5,005	100%	0%	0%	2,022	212
5	4" Valve	1995	750	C	100%	\$1,846	40	28	3,750	12	3	4,158	100%	0%	0%	2,370	Not Cap.
159	6" Valve	1995	1,250	C	100%	\$97,822	40	28	198,750	12	13	310,836	15%	40%	45%	18,839	1,979
155	8" Valve	1995	2,900	C	100%	\$221,238	40	28	449,500	12	13	702,998	5%	40%	55%	14,203	1,492
4	12" Valve	1995	6,750	C	100%	\$13,289	40	28	27,000	12	13	42,227	25%	0%	75%	4,265	448
173	Hydrants	1995	7,000	C	100%	\$596,037	50	28	1,211,000	22	23	2,671,605	5%	40%	55%	38,263	3,679
12	Hydrants	1970	7,000	C	100%	\$21,955	50	53	84,000	-3	5	99,766	25%	0%	75%	13,270	2,260
	Shop				100%								0%	0%	100%	0	0
	Vehicles and Equipment				100%								0%	0%	100%	0	0
1	Dump Truck (Replace with used)	1985	80,000	C	30%	\$9,170	20	38	24,000	-18	5	28,504	100%	0%	0%	15,166	2,583
1	Mini Trackhoe	2020	80,000	C	30%	\$22,245	15	3	24,000	12	13	37,535	100%	0%	0%	15,166	1,593
-	Backhoe	2014			30%			9		-9			0%	0%	100%	0	0
1	Skidder	2012	90,000	C	30%	\$20,437	15	11	27,000	4	5	32,068	100%	0%	0%	17,062	2,906
1	Utility Trucks	2010	80,000	C	30%	\$17,269	10	13	24,000	-3	1	24,840	100%	0%	0%	15,166	9,674
1	Utility Trucks	2014	80,000	C	30%	\$19,110	10	9	24,000	1	2	25,709	100%	0%	0%	15,166	5,224
1	Utility Trucks	2015	80,000	C	30%	\$19,600	10	8	24,000	2	3	26,609	100%	0%	0%	15,166	3,748
1	Utility Trucks	2015	80,000	C	30%	\$19,600	10	8	24,000	2	3	26,609	100%	0%	0%	15,166	3,748
1	Utility Trucks	2022	89,000	H	30%	\$26,700	10	1	27,368	9	10	38,605	100%	0%	0%	17,294	2,003
-	Utility Trucks (Lease)	2022			30%			1		-1	0		0%	0%	100%	0	0
1	Side by Side	2014	16,000	H	30%	\$4,800	10	9	5,995	1	2	6,422	100%	0%	0%	3,788	1,305
1	Utility Truck	2013	80,000	C	30%	\$18,632	15	10	24,000	5	6	29,502	100%	0%	0%	15,166	2,298
2	Utility Truck	2017	55,000	H	30%	\$33,000	10	6	38,270	4	5	45,453	25%	0%	75%	6,046	1,030
					100%								0%	0%	100%	0	0
	Subtotal Replacement of Existing Capital Assets					\$9,900,881			19,352,950			147,935,511	6%	40%	55%	1,021,354	170,268

Quantity	Asset	Year Acquired	Unit Cost (Current or Future)	Cost Type (C, F)	% Belonging to Water	Normal Estimated Life	Time to Complete	Estimated Current Cost	Planned Remaining Life	Estimated Remaining Life	Estimated Future Cost	Fund with Cash	Fund with Grant	Fund with Loan	Existing Reserves	Annual Reserve Required
Replacement of Funded Project Assets																
Mohave County ARPA Project																
2	Additional Vessels	2024	225,000	C	100%	30	1	450,000	31	32	1,353,018	5%	40%	55%	0	1,878
1	Pretreatment System	2024	80,000	C	100%	15	1	80,000	16	17	143,574	25%	0%	75%	0	1,988
1	Piping and Appurtenances	2024	60,000	C	100%	50	1	60,000	51	52	358,963	15%	40%	45%	0	850
						50				52		0%	0%	0%	0	0
						75				77		0%	0%	0%	0	0
1000	Treatment Yard Fencing	2024	30	C	100%	30	1	30,000	31	32	90,201	25%	0%	75%	0	626
1	12" Raw Water Transmission Line	2024	998,800	C	100%	50	1	998,800	51	51	5,773,463	5%	40%	55%	0	4,668
1	Replace wells 15 and 17 and treatment plant wells	2024	2,577,300	C	100%	50	1	2,577,300	51	51	14,897,823	5%	40%	55%	0	12,044
					100%							0%	0%	0%	0	0
Subtotal Replacement of Funded Project Assets								4,196,100			22,617,042	5%	40%	55%		22,054

Enter Existing Reserves for Replacement of Funded Project Assets



Quantity	Asset	Year to be Purchased	Unit Cost (Current or Future)	Cost Type (C, F)	% Belonging to Water	Normal Estimated Life	Years to save	Estimated Current Cost	Estimated Future Cost	Fund with Cash	Fund with Grant	Fund with Loan	Existing Reserves	Annual Reserve Required	
Reserves for Additional Capital Assets															
-					100%	50				5%	0%	95%	0		
1	Fire Hydrants	2024	1,733,500	F	100%	50	1	1,672,828	1,733,500	5%	40%	55%	0	86,675	
1	Sandhill Tank - 1MG	2024	3,983,400	F	100%	55	1	3,843,981	3,983,400	5%	40%	55%	0	199,170	
1	Trailhead Well 1 and Jessop Ave Line	2025	3,254,020	F	100%	50	2	3,030,225	3,254,020	5%	40%	55%	0	81,047	
1	Trailhead Well 2, Squirrel Canyon Tank (1MG), and Can	2028	3,952,100	F	100%	50	5	3,307,231	3,952,100	5%	40%	55%	0	38,933	
1	University Ave Line	2030	326,000	F	100%	100	7	254,044	326,000	15%	40%	45%	0	6,830	
1	Hildale Groundwater Project Phase 1	2032	3,691,800	F	100%	50	9	2,679,070	3,691,800	5%	40%	55%	0	19,902	
1	Hildale Groundwater Project Phase 2	2036	4,220,100	F	100%	50	13	2,655,693	4,220,100	5%	40%	55%	0	15,513	
1	Hildale Groundwater Project Phase 3 and Annexation Tr	2040	5,219,750	F	100%	50	17	2,848,486	5,219,750	5%	40%	55%	0	14,452	
1	New Annexation Area Tank - 1MG	2042	3,658,500	F	100%	55	19	1,859,182	3,658,500	5%	40%	55%	0	8,994	
Subtotal Reserves for Additional Capital Assets								22,150,738		30,039,170	5%	40%	55%	0	471,516

Enter Existing Reserves for Additional Capital Assets



Total Capital Reserves								45,699,788		200,591,724	6%	40%	55%	1,021,354	663,838
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