

AFUERA DE CHORRO WATER SYSTEM RESERVE ANALYSIS SUMMARY								
Water System Component	Qty	Unit	Unit Cost	2022 Cost to Replace	Remaining Life in Years	Projected Replacement Cost w/ 3% CPI Based on Remaining Life	Annual Replacement Cost	Notes
Well #1								
Control Panel	1	EA	\$4,000	\$4,000	10	\$5,376	\$538	
Well Pump\Motor	1	EA	\$12,000	\$12,000	9	\$15,657	\$1,740	Replaced in 2021
Flow Meter	1	EA	\$2,000	\$2,000	1	\$2,060	\$2,060	End of Useful Life
Discharge Check Valve	1	EA	\$1,200	\$1,200	10	\$1,613	\$161	
Other Well Head Plumbing	1	EA	\$5,000	\$5,000	20	\$9,031	\$452	
SCADA Panel	1	EA	\$5,000	\$5,000	10	\$6,720	\$672	
Well #3								
Control Panel	1	EA	\$4,000	\$4,000	10	\$5,376	\$538	
Well Pump\Motor	1	EA	\$10,000	\$10,000	7	\$12,299	\$1,757	Installed 1980, Replaced 2019
Flow Meter	1	EA	\$2,000	\$2,000	10	\$2,688	\$269	
Discharge Check Valve	1	EA	\$1,200	\$1,200	10	\$1,613	\$161	
Other Well Head Plumbing	1	EA	\$5,000	\$5,000	20	\$9,031	\$452	
SCADA Panel	1	EA	\$5,000	\$5,000	10	\$6,720	\$672	
Well #11								
Control Panel	1	EA	\$4,000	\$4,000	10	\$5,376	\$538	
Well Pump\Motor	1	EA	\$10,000	\$10,000	1	\$10,300	\$10,300	Installed 1990, Reaching end of life
Flow Meter	1	EA	\$2,000	\$2,000	1	\$2,060	\$2,060	End of Useful Life
Discharge Check Valve	1	EA	\$1,200	\$1,200	10	\$1,613	\$161	
Other Well Head Plumbing	1	EA	\$5,000	\$5,000	20	\$9,031	\$452	
SCADA Panel	1	EA	\$5,000	\$5,000	10	\$6,720	\$672	
Well #13								
Control Panel	1	EA	\$4,000	\$4,000	10	\$5,376	\$538	
Well Pump\Motor	1	EA	\$10,000	\$10,000	1	\$10,300	\$10,300	Installed 1991, Replaced in 2001
Flow Meter	1	EA	\$2,000	\$2,000	10	\$2,688	\$269	
Discharge Check Valve	1	EA	\$1,200	\$1,200	10	\$1,613	\$161	
Other Well Head Plumbing	1	EA	\$5,000	\$5,000	20	\$9,031	\$452	
SCADA Panel	1	EA	\$5,000	\$5,000	10	\$6,720	\$672	
Well #15								
Control Panel	1	EA	\$4,000	\$4,000	10	\$5,376	\$538	
Well Pump\Motor	1	EA	\$10,000	\$10,000	2	\$10,609	\$5,305	Installed 2009
Flow Meter	1	EA	\$2,000	\$2,000	10	\$2,688	\$269	
Discharge Check Valve	1	EA	\$1,200	\$1,200	10	\$1,613	\$161	
Other Well Head Plumbing	1	EA	\$5,000	\$5,000	20	\$9,031	\$452	
SCADA Panel	1	EA	\$5,000	\$5,000	10	\$6,720	\$672	
Tank #1: 65,000 gal Water Storage Tank								
Cleaned & Inspected (every 5 years)	1	EA	\$1,250	\$2,500	3	\$2,732	\$911	Inspected 2020 - Rating Good Condition
Paint (interior and exterior)	65,000	GAL	\$0.25	\$16,250	20	\$29,349	\$1,467	
Tank #2: 95,000 gal Water Storage Tank								
Cleaned & Inspected (every 5 years)	1	EA	\$1,250	\$2,500	3	\$2,732	\$911	Inspected 2020 - Rating Good Condition
Paint (interior and exterior)	95,000	GAL	\$0.25	\$23,750	20	\$42,895	\$2,145	
Chlorine Injection System	1	EA	\$7,500	\$7,500	10	\$10,079	\$1,008	Replace 2021
Road Improvements for Tank Access	5,000	SF	\$2.40	\$12,000	10	\$16,127	\$1,613	
Water Distribution System								
2" PVC Raw Waterline	2,900	FT	\$75	\$217,500	20	\$392,829	\$19,641	
4" PVC Raw Waterline	1,500	FT	\$90	\$135,000	20	\$243,825	\$12,191	
6" ACP Waterline	3,630	FT	\$125	\$453,750	20	\$819,523	\$40,976	
8" ACP Waterline	1,490	FT	\$150	\$223,500	20	\$403,666	\$20,183	
Buried Gate Valves	5	EA	\$4,500	\$22,500	15	\$35,054	\$2,337	
Residential Water Meters (Neptune)	22	EA	\$1,500	\$33,000	20	\$59,602	\$2,980	
Residential Water Meters (Old)	4	EA	\$1,500	\$6,000	1	\$6,180	\$6,180	
Blow Offs	2	EA	\$4,600	\$9,200	20	\$16,616	\$831	
Fire hydrants (standard)	3	EA	\$7,500	\$22,500	20	\$40,638	\$2,032	
Fire hydrants (wharf style)	2	EA	\$7,500	\$15,000	15	\$23,370	\$1,558	
			Totals	\$1,340,450				
Reserve Balance				\$224,237		\$2,330,258	\$160,403	
Total Required Reserve Balance				\$1,116,213				
						Cost Per Month Per Connection	\$514.11	Updated December 1, 2022
Additional Items to Consider								
65,000 gallon Tank Replacement	65,000	GAL	\$2.50	\$162,500	100	\$3,123,028	\$31,230	
95,000 gallon Tank Replacement	95,000	GAL	\$2.50	\$237,500	100	\$4,564,425	\$45,644	