

NET PRESENT VALUE: TAHIMANA

Note Contractor to fill in the Orange Cells	
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ITEMS	Comment	Year 0 Cost	Future Costs	Fut. Cost Frequency	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
					-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

Sinking Fund: TAHIMANA

ITEMS/Comments		Current Values			Year 0 Cost (2026)	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Power		Total Power Costs			\$12,649	\$12,966	\$13,290	\$13,622	\$13,963	\$14,312	\$14,669	\$15,036	\$15,412	\$15,797	\$16,192	\$16,597	\$17,012	\$17,437	\$17,873	\$18,320	\$18,778	\$19,248	\$19,729	\$20,222
WWTP (Average flow = 73,300 LPD)		11,389.41	1.00		11,389	11,674	11,966	12,265	12,572	12,886	13,208	13,538	13,877	14,224	14,579	14,944	15,317	15,700	16,093	16,495	16,908	17,330	17,764	18,208
Telemetry		1,260.00	1.00		1,260	1,292	1,324	1,357	1,391	1,426	1,461	1,498	1,535	1,574	1,613	1,653	1,695	1,737	1,780	1,825	1,870	1,917	1,965	2,014
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Renewals				Frequency	\$9,638	\$9,879	\$10,125	\$10,379	\$10,638	\$10,904	\$11,177	\$11,456	\$11,742	\$12,036	\$12,337	\$12,645	\$12,961	\$13,286	\$13,618	\$13,958	\$14,307	\$14,665	\$15,031	\$15,407
Recirculation Pumps Stage-1		37,875.17	0.07		2,525	2,588	2,653	2,719	2,787	2,857	2,928	3,001	3,076	3,153	3,232	3,313	3,396	3,481	3,568	3,657	3,748	3,842	3,938	4,037
Filtrate Return Pump		2,404.27	0.04		96	99	101	104	106	109	112	114	117	120	123	126	129	133	136	139	143	146	150	154
Recirculation Pumps Stage-2		12,625.06	0.07		842	863	884	906	929	952	976	1,000	1,025	1,051	1,077	1,104	1,132	1,160	1,189	1,219	1,249	1,281	1,313	1,346
Post Anoxic Mixing Pump		2,404.27	0.07		160	164	168	173	177	181	186	191	195	200	205	210	216	221	226	232	238	244	250	256
Fans		7,925.46	0.07		528	542	555	569	583	598	613	628	644	660	676	693	711	728	747	765	784	804	824	845
Alkalinity Mixing Pump		2,500.91	0.07		167	171	175	180	184	189	193	198	203	208	213	219	224	230	236	241	248	254	260	267
Alkalinity Dosing Pump		2,500.91	0.07		167	171	175	180	184	189	193	198	203	208	213	219	224	230	236	241	248	254	260	267
Carbon Dosing Pumps		9,665.52	0.07		644	660	677	694	711	729	747	766	785	805	825	845	867	888	910	933	957	980	1,005	1,030
Irrigation Pumps (to Irrigation)		24,000.00	0.07		1,600	1,640	1,681	1,723	1,766	1,810	1,856	1,902	1,949	1,998	2,048	2,099	2,152	2,206	2,261	2,317	2,375	2,435	2,495	2,558
Control Panel, Instrumentation and Miscellaneous		87,248.07	0.03		2,908	2,981	3,056	3,132	3,210	3,290	3,373	3,457	3,543	3,632	3,723	3,816	3,911	4,009	4,109	4,212	4,317	4,425	4,536	4,649
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sludge Disposal				Frequency	\$100	\$103	\$105	\$108	\$110	\$113	\$116	\$119	\$122	\$125	\$128	\$131	\$134	\$138	\$141	\$145	\$148	\$152	\$156	\$160
WWTP Process Tanks		2,000.00	0.05		100	103	105	108	110	113	116	119	122	125	128	131	134	138	141	145	148	152	156	160
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maintenance				Frequency	\$28,537	\$29,250	\$29,981	\$30,731	\$31,499	\$32,287	\$33,094	\$33,921	\$34,769	\$35,638	\$36,529	\$37,443	\$38,379	\$39,338	\$40,322	\$41,330	\$42,363	\$43,422	\$44,507	\$45,620
Preventative Maintenance		28,536.66	1.00		28,537	29,250	29,981	30,731	31,499	32,287	33,094	33,921	34,769	35,638	36,529	37,443	38,379	39,338	40,322	41,330	42,363	43,422	44,507	45,620
Grounds Maintenance				Frequency	\$1,800	\$1,845	\$1,891	\$1,938	\$1,987	\$2,037	\$2,087	\$2,140	\$2,193	\$2,248	\$2,304	\$2,362	\$2,421	\$2,481	\$2,543	\$2,607	\$2,672	\$2,739	\$2,807	\$2,878
Operator		1,800.00	1.00		1,800	1,845	1,891	1,938	1,987	2,037	2,087	2,140	2,193	2,248	2,304	2,362	2,421	2,481	2,543	2,607	2,672	2,739	2,807	2,878
Chemicals and Water				Frequency	\$23,265	\$23,847	\$24,443	\$25,054	\$25,680	\$26,322	\$26,980	\$27,655	\$28,346	\$29,055	\$29,781	\$30,526	\$31,289	\$32,071	\$32,873	\$33,695	\$34,537	\$35,400	\$36,286	\$37,193
Water		-	1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sucrose		9,901.18	1.00		9,901	10,149	10,402	10,662	10,929	11,202	11,482	11,769	12,064	12,365	12,674	12,991	13,316	13,649	13,990	14,340	14,698	15,066	15,442	15,829
Magnesium Hydroxide		13,363.85	1.00		13,364	13,698	14,040	14,391	14,751	15,120	15,498	15,885	16,283	16,690	17,107	17,535	17,973	18,422	18,883	19,355	19,839	20,335	20,843	21,364
Compliance Monitoring				Frequency	\$7,500.00	\$7,687.50	\$7,879.69	\$8,076.68	\$8,278.60	\$8,485.56	\$8,697.70	\$8,915.14	\$9,138.02	\$9,366.47	\$9,600.63	\$9,840.65	\$10,086.67	\$10,338.83	\$10,597.30	\$10,862.24	\$11,133.79	\$11,412.14	\$11,697.44	\$11,989.88
Sampling and Reporting		7,500.00	1.00		7,500	7,688	7,880	8,077	8,279	8,486	8,698	8,915	9,138	9,366	9,601	9,841	10,087	10,339	10,597	10,862	11,134	11,412	11,697	11,990
Labour				Frequency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Operator			1.00		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Annual Sinking Fund Total (Communal Plant)					\$83,489	\$85,576	\$87,715	\$89,908	\$92,156	\$94,460	\$96,821	\$99,242	\$101,723	\$104,266	\$106,873	\$109,544	\$112,283	\$115,090	\$117,967	\$120,917	\$123,939	\$127,038	\$130,214	\$133,469
Annual Sinking Fund Per Lot					\$827	\$847	\$868	\$890	\$912	\$935	\$959	\$983	\$1,007	\$1,032	\$1,058	\$1,085	\$1,112	\$1,140	\$1,168	\$1,197	\$1,227	\$1,258	\$1,289	\$1,321
Inflation					2.5%																			