

Hihi WWTP Disposal to Land - High Level Cost Estimate (Based on Beca estimate dated 5 July 2021) - Option 1

AVERAGE CAPITAL Rate - per connection	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
Option Estimate	\$ -	\$ -	\$ -	\$ -	\$ 818.19	\$ 806.34	\$ 794.48	\$ 782.63	\$ 770.78	\$ 758.93
Option Estimate 30%	\$ -	\$ -	\$ -	\$ -	\$ 572.73	\$ 564.44	\$ 556.14	\$ 547.84	\$ 539.55	\$ 531.25
Option Estimate 50%	\$ -	\$ -	\$ -	\$ -	\$ 1,227.29	\$ 1,209.51	\$ 1,191.73	\$ 1,173.95	\$ 1,156.17	\$ 1,138.39

OPERATING Rate per connection	Rate based on opex spend on Options
Option Estimate	\$ 19.45
Option Estimate 30%	\$ 13.62
Option Estimate 50%	\$ 29.18

Current connections	CAPITAL	OPERATING
Connections	189	13038
Availability		
Pans		4071
Weighted Numbers	189	15481

			Cost Estimates							Depreciation									
Asset Detail	Total Spend	Average Depreciable Life	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
Option Estimate																			
Pump Station	170,876	75				170,876				0	0	0	0	2,278	2,278	2,278	2,278	2,278	2,278
PE 100mm Pipe	557,367	35				557,367				0	0	0	0	15,925	15,925	15,925	15,925	15,925	15,925
Electrical Control / telemetry	77,671	20				77,671				0	0	0	0	3,884	3,884	3,884	3,884	3,884	3,884
Irrigation System	411,657	30				411,657				0	0	0	0	13,722	13,722	13,722	13,722	13,722	13,722
Planting or Irrigation System	740,982	20				740,982				0	0	0	0	37,049	37,049	37,049	37,049	37,049	37,049
Storage Pond	368,161	50				368,161				0	0	0	0	7,363	7,363	7,363	7,363	7,363	7,363
Storage Pond Fencing	29,826	20				29,826				0	0	0	0	1,491	1,491	1,491	1,491	1,491	1,491
Irrigation Pump with Shed and Slab	38,836	35				38,836				0	0	0	0	1,110	1,110	1,110	1,110	1,110	1,110
Electrical Control / Power from	46,603	20				46,603				0	0	0	0	2,330	2,330	2,330	2,330	2,330	2,330
Consents Including AEE	155,342	15				155,342				0	0	0	0	10,356	10,356	10,356	10,356	10,356	10,356
										0	0	0	0	0	0	0	0	0	0
Opex	253,640	0								0	0	0	0	0	0	0	0	0	0
	2,850,960		0	0	0	2,597,320	0	0	0	0	0	0	0	95,508	95,508	95,508	95,508	95,508	95,508
Option Estimate -30%																			
Pump Station	119,613	75				119,613				0	0	0	0	1,595	1,595	1,595	1,595	1,595	1,595
PE 100mm Pipe	390,157	35				390,157				0	0	0	0	11,147	11,147	11,147	11,147	11,147	11,147
Electrical Control / telemetry	54,370	20				54,370				0	0	0	0	2,718	2,718	2,718	2,718	2,718	2,718
Irrigation System	288,160	30				288,160				0	0	0	0	9,605	9,605	9,605	9,605	9,605	9,605
Planting or Irrigation System	518,687	20				518,687				0	0	0	0	25,934	25,934	25,934	25,934	25,934	25,934
Storage Pond	257,713	50				257,713				0	0	0	0	5,154	5,154	5,154	5,154	5,154	5,154
Storage Pond Fencing	20,878	20				20,878				0	0	0	0	1,044	1,044	1,044	1,044	1,044	1,044
Irrigation Pump with Shed and Slab	27,185	35				27,185				0	0	0	0	777	777	777	777	777	777
Electrical Control / Power from	32,622	20				32,622				0	0	0	0	1,631	1,631	1,631	1,631	1,631	1,631
Consents Including AEE	108,739	15				108,739				0	0	0	0	7,249	7,249	7,249	7,249	7,249	7,249
										0	0	0	0	0	0	0	0	0	0
Opex	177,548	0								0	0	0	0	0	0	0	0	0	0
	1,995,672		0	0	0	1,818,124	0	0	0	0	0	0	0	66,856	66,856	66,856	66,856	66,856	66,856
Option Estimate + 50%																			
Pump Station	256,314	75				256,314				0	0	0	0	3,418	3,418	3,418	3,418	3,418	3,418
PE 100mm Pipe	836,051	35				836,051				0	0	0	0	23,887	23,887	23,887	23,887	23,887	23,887
Electrical Control / telemetry	116,507	20				116,507				0	0	0	0	5,825	5,825	5,825	5,825	5,825	5,825
Irrigation System	617,485	30				617,485				0	0	0	0	20,583	20,583	20,583	20,583	20,583	20,583
Planting or Irrigation System	1,111,473	20				1,111,473				0	0	0	0	55,574	55,574	55,574	55,574	55,574	55,574
Storage Pond	552,241	50				552,241				0	0	0	0	11,045	11,045	11,045	11,045	11,045	11,045
Storage Pond Fencing	44,739	20				44,739				0	0	0	0	2,237	2,237	2,237	2,237	2,237	2,237
Irrigation Pump with Shed and Slab	58,253	35				58,253				0	0	0	0	1,664	1,664	1,664	1,664	1,664	1,664
Electrical Control / Power from	69,904	20				69,904				0	0	0	0	3,495	3,495	3,495	3,495	3,495	3,495
Consents Including AEE	233,013	15				233,013				0	0	0	0	15,534	15,534	15,534	15,534	15,534	15,534
						0				0	0	0	0	0	0	0	0	0	0
Opex	380,460	0	0							0	0	0	0	0	0	0	0	0	0
	4,276,440		0	0	0	3,895,980	0	0	0	0	0	0	0	143,262	143,262	143,262	143,262	143,262	143,262

Interest Rates									
Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
0.022	0.018	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015

Debt Repayment										Interest									
Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
0	0	0	0	8,544	8,544	8,544	8,544	8,544	8,544	0	0	0	0	2,563	2,435	2,307	2,179	2,051	1,922
0	0	0	0	27,868	27,868	27,868	27,868	27,868	27,868	0	0	0	0	8,361	7,942	7,524	7,106	6,688	6,270
0	0	0	0	3,884	3,884	3,884	3,884	3,884	3,884	0	0	0	0	1,165	1,107	1,049	990	932	874
0	0	0	0	20,583	20,583	20,583	20,583	20,583	20,583	0	0	0	0	6,175	5,866	5,557	5,249	4,940	4,631
0	0	0	0	37,049	37,049	37,049	37,049	37,049	37,049	0	0	0	0	11,115	10,559	10,003	9,448	8,892	8,336
0	0	0	0	18,408	18,408	18,408	18,408	18,408	18,408	0	0	0	0	5,522	5,246	4,970	4,694	4,418	4,142
0	0	0	0	1,491	1,491	1,491	1,491	1,491	1,491	0	0	0	0	447	425	403	380	358	336
0	0	0	0	1,942	1,942	1,942	1,942	1,942	1,942	0	0	0	0	583	553	524	495	466	437
0	0	0	0	2,330	2,330	2,330	2,330	2,330	2,330	0	0	0	0	699	664	629	594	559	524
0	0	0	0	7,767	7,767	7,767	7,767	7,767	7,767	0	0	0	0	2,330	2,214	2,097	1,981	1,864	1,748
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	129,866	129,866	129,866	129,866	129,866	129,866	0	0	0	0	38,960	37,012	35,064	33,116	31,168	29,220
0	0	0	0	5,981	5,981	5,981	5,981	5,981	5,981	0	0	0	0	1,794	1,704	1,615	1,525	1,435	1,346
0	0	0	0	19,508	19,508	19,508	19,508	19,508	19,508	0	0	0	0	5,852	5,560	5,267	4,975	4,682	4,389
0	0	0	0	2,718	2,718	2,718	2,718	2,718	2,718	0	0	0	0	816	775	734	693	652	612
0	0	0	0	14,408	14,408	14,408	14,408	14,408	14,408	0	0	0	0	4,322	4,106	3,890	3,674	3,458	3,242
0	0	0	0	25,934	25,934	25,934	25,934	25,934	25,934	0	0	0	0	7,780	7,391	7,002	6,613	6,224	5,835
0	0	0	0	12,886	12,886	12,886	12,886	12,886	12,886	0	0	0	0	3,866	3,672	3,479	3,286	3,093	2,899
0	0	0	0	1,044	1,044	1,044	1,044	1,044	1,044	0	0	0	0	313	298	282	266	251	235
0	0	0	0	1,359	1,359	1,359	1,359	1,359	1,359	0	0	0	0	408	387	367	347	326	306
0	0	0	0	1,631	1,631	1,631	1,631	1,631	1,631	0	0	0	0	489	465	440	416	391	367
0	0	0	0	5,437	5,437	5,437	5,437	5,437	5,437	0	0	0	0	1,631	1,550	1,468	1,386	1,305	1,223
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	90,906	90,906	90,906	90,906	90,906	90,906	0	0	0	0	27,272	25,908	24,545	23,181	21,817	20,454
0	0	0	0	12,816	12,816	12,816	12,816	12,816	12,816	0	0	0	0	3,845	3,652	3,460	3,268	3,076	2,884
0	0	0	0	41,803	41,803	41,803	41,803	41,803	41,803	0	0	0	0	12,541	11,914	11,287	10,660	10,033	9,406
0	0	0	0	5,825	5,825	5,825	5,825	5,825	5,825	0	0	0	0	1,748	1,660	1,573	1,485	1,398	1,311
0	0	0	0	30,874	30,874	30,874	30,874	30,874	30,874	0	0	0	0	9,262	8,799	8,336	7,873	7,410	6,947
0	0	0	0	55,574	55,574	55,574	55,574	55,574	55,574	0	0	0	0	16,672	15,838	15,005	14,171	13,338	12,504
0	0	0	0	27,612	27,612	27,612	27,612	27,612	27,612	0	0	0	0	8,284	7,869	7,455	7,041	6,627	6,213
0	0	0	0	2,237	2,237	2,237	2,237	2,237	2,237	0	0	0	0	671	638	604	570	537	503
0	0	0	0	2,913	2,913	2,913	2,913	2,913	2,913	0	0	0	0	874	830	786	743	699	655
0	0	0	0	3,495	3,495	3,495	3,495	3,495	3,495	0	0	0	0	1,049	996	944	891	839	786
0	0	0	0	11,651	11,651	11,651	11,651	11,651	11,651	0	0	0	0	3,495	3,320	3,146	2,971	2,796	2,621
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	194,799	194,799	194,799	194,799	194,799	194,799	0	0	0	0	58,440	55,518	52,596	49,674	46,752	43,830

Hihi WWTP Disposal to Land - High Level Cost Estimate (Based on Beca estimate dated 5 July 2021) - Option 2

AVERAGE CAPITAL Rate - per connection											
	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	
Option Estimate	\$ -	\$ -	\$ -	\$ -	\$ 859.75	\$ 847.18	\$ 834.61	\$ 822.04	\$ 809.47	\$ 796.90	
Option Estimate 30%	\$ -	\$ -	\$ -	\$ -	\$ 601.83	\$ 593.03	\$ 584.23	\$ 575.43	\$ 566.63	\$ 557.83	
Option Estimate 50%	\$ -	\$ -	\$ -	\$ -	\$ 1,289.63	\$ 1,270.77	\$ 1,251.91	\$ 1,233.06	\$ 1,214.20	\$ 1,195.35	

OPERATING Rate per connection	Rate based on opex spend on Options
Option Estimate	\$ 20.41
Option Estimate 30%	\$ 14.28
Option Estimate 50%	\$ 30.61

Current connections	CAPITAL	OPERATING
Connections	189	13038
Availability		
Pans		4071
Weighted Numbers	189	15481

		Cost Estimates							Depreciation										
Asset Detail	Total Spend	Average Depreciable Life	Y1	Y2	Y3	25/26	Y5	Y6	Y7	Y1	Y2	Y3	25/26	26/27	27/28	28/29	29/30	30/31	31/32
Option Estimate																			
Pump Station	170,665	75				170,665				0	0	0	0	2,276	2,276	2,276	2,276	2,276	2,276
PE 100mm Pipe	717,259	35				717,259				0	0	0	0	20,493	20,493	20,493	20,493	20,493	20,493
Electrical Control / telemetry	77,575	20				77,575				0	0	0	0	3,879	3,879	3,879	3,879	3,879	3,879
Irrigation System	411,148	30				411,148				0	0	0	0	13,705	13,705	13,705	13,705	13,705	13,705
Planting or irrigation System	740,066	20				740,066				0	0	0	0	37,003	37,003	37,003	37,003	37,003	37,003
Storage Pond	367,706	50				367,706				0	0	0	0	7,354	7,354	7,354	7,354	7,354	7,354
Storage Pond Fencing	29,789	20				29,789				0	0	0	0	1,489	1,489	1,489	1,489	1,489	1,489
Irrigation Pump with Shed and Slab	38,788	35				38,788				0	0	0	0	1,108	1,108	1,108	1,108	1,108	1,108
Electrical Control / Power from	46,545	20				46,545				0	0	0	0	2,327	2,327	2,327	2,327	2,327	2,327
Consents including AEE	155,150	15				155,150				0	0	0	0	10,343	10,343	10,343	10,343	10,343	10,343
										0	0	0	0	0	0	0	0	0	0
Opex	266,060	0								0	0	0	0	0	0	0	0	0	0
	3,020,750		0	0	0	2,754,690	0	0	0	0	0	0	0	99,978	99,978	99,978	99,978	99,978	99,978
Option Estimate - 30%																			
Pump Station	119,466	75				119,466				0	0	0	0	1,593	1,593	1,593	1,593	1,593	1,593
PE 100mm Pipe	502,081	35				502,081				0	0	0	0	14,345	14,345	14,345	14,345	14,345	14,345
Electrical Control / telemetry	54,303	20				54,303				0	0	0	0	2,715	2,715	2,715	2,715	2,715	2,715
Irrigation System	287,803	30				287,803				0	0	0	0	9,593	9,593	9,593	9,593	9,593	9,593
Planting or irrigation System	518,046	20				518,046				0	0	0	0	25,902	25,902	25,902	25,902	25,902	25,902
Storage Pond	257,394	50				257,394				0	0	0	0	5,148	5,148	5,148	5,148	5,148	5,148
Storage Pond Fencing	20,852	20				20,852				0	0	0	0	1,043	1,043	1,043	1,043	1,043	1,043
Irrigation Pump with Shed and Slab	27,151	35				27,151				0	0	0	0	776	776	776	776	776	776
Electrical Control / Power from	32,582	20				32,582				0	0	0	0	1,629	1,629	1,629	1,629	1,629	1,629
Consents including AEE	108,605	15				108,605				0	0	0	0	7,240	7,240	7,240	7,240	7,240	7,240
										0	0	0	0	0	0	0	0	0	0
Opex	186,242	0								0	0	0	0	0	0	0	0	0	0
	2,114,525		0	0	0	1,928,283	0	0	0	0	0	0	0	69,985	69,985	69,985	69,985	69,985	69,985
Option Estimate + 50%																			
Pump Station	255,998	75				255,998				0	0	0	0	3,413	3,413	3,413	3,413	3,413	3,413
PE 100mm Pipe	1,075,888	35				1,075,888				0	0	0	0	30,740	30,740	30,740	30,740	30,740	30,740
Electrical Control / telemetry	116,363	20				116,363				0	0	0	0	5,818	5,818	5,818	5,818	5,818	5,818
Irrigation System	616,722	30				616,722				0	0	0	0	20,557	20,557	20,557	20,557	20,557	20,557
Planting or irrigation System	1,110,099	20				1,110,099				0	0	0	0	55,505	55,505	55,505	55,505	55,505	55,505
Storage Pond	551,559	50				551,559				0	0	0	0	11,031	11,031	11,031	11,031	11,031	11,031
Storage Pond Fencing	44,683	20				44,683				0	0	0	0	2,234	2,234	2,234	2,234	2,234	2,234
Irrigation Pump with Shed and Slab	58,181	35				58,181				0	0	0	0	1,662	1,662	1,662	1,662	1,662	1,662
Electrical Control / Power from	69,818	20				69,818				0	0	0	0	3,491	3,491	3,491	3,491	3,491	3,491
Consents including AEE	232,725	15				232,725				0	0	0	0	15,515	15,515	15,515	15,515	15,515	15,515
		0				0				0	0	0	0	0	0	0	0	0	0
Opex	399,090	0	0							0	0	0	0	0	0	0	0	0	0
	4,531,125		0	0	0	4,132,035	0	0	0	0	0	0	0	149,967	149,967	149,967	149,967	149,967	149,967

Interest Rates									
Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
0.022	0.018	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015

Debt Repayment										Interest									
Y1	Y2	Y3	25/26	26/27	27/28	28/29	29/30	30/31	31/32	Y1	Y2	Y3	25/26	26/27	27/28	28/29	29/30	30/31	31/32
0	0	0	0	8,533	8,533	8,533	8,533	8,533	8,533	0	0	0	0	2,560	2,432	2,304	2,176	2,048	1,920
0	0	0	0	35,863	35,863	35,863	35,863	35,863	35,863	0	0	0	0	10,759	10,221	9,683	9,145	8,607	8,069
0	0	0	0	3,879	3,879	3,879	3,879	3,879	3,879	0	0	0	0	1,164	1,105	1,047	989	931	873
0	0	0	0	20,557	20,557	20,557	20,557	20,557	20,557	0	0	0	0	6,167	5,859	5,550	5,242	4,934	4,625
0	0	0	0	37,003	37,003	37,003	37,003	37,003	37,003	0	0	0	0	11,101	10,546	9,991	9,436	8,881	8,326
0	0	0	0	18,385	18,385	18,385	18,385	18,385	18,385	0	0	0	0	5,516	5,240	4,964	4,688	4,412	4,137
0	0	0	0	1,489	1,489	1,489	1,489	1,489	1,489	0	0	0	0	447	424	402	380	357	335
0	0	0	0	1,939	1,939	1,939	1,939	1,939	1,939	0	0	0	0	582	553	524	495	465	436
0	0	0	0	2,327	2,327	2,327	2,327	2,327	2,327	0	0	0	0	698	663	628	593	559	524
0	0	0	0	7,758	7,758	7,758	7,758	7,758	7,758	0	0	0	0	2,327	2,211	2,095	1,978	1,862	1,745
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	137,735	137,735	137,735	137,735	137,735	137,735	0	0	0	0	41,320	39,254	37,188	35,122	33,056	30,990
0	0	0	0	5,973	5,973	5,973	5,973	5,973	5,973	0	0	0	0	1,792	1,702	1,613	1,523	1,434	1,344
0	0	0	0	25,104	25,104	25,104	25,104	25,104	25,104	0	0	0	0	7,531	7,155	6,778	6,402	6,025	5,648
0	0	0	0	2,715	2,715	2,715	2,715	2,715	2,715	0	0	0	0	815	774	733	692	652	611
0	0	0	0	14,390	14,390	14,390	14,390	14,390	14,390	0	0	0	0	4,317	4,101	3,885	3,669	3,454	3,238
0	0	0	0	25,902	25,902	25,902	25,902	25,902	25,902	0	0	0	0	7,771	7,382	6,994	6,605	6,217	5,828
0	0	0	0	12,870	12,870	12,870	12,870	12,870	12,870	0	0	0	0	3,861	3,668	3,475	3,282	3,089	2,896
0	0	0	0	1,043	1,043	1,043	1,043	1,043	1,043	0	0	0	0	313	297	282	266	250	235
0	0	0	0	1,358	1,358	1,358	1,358	1,358	1,358	0	0	0	0	407	387	367	346	326	305
0	0	0	0	1,629	1,629	1,629	1,629	1,629	1,629	0	0	0	0	489	464	440	415	391	367
0	0	0	0	5,430	5,430	5,430	5,430	5,430	5,430	0	0	0	0	1,629	1,548	1,466	1,385	1,303	1,222
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	96,414	96,414	96,414	96,414	96,414	96,414	0	0	0	0	28,924	27,478	26,032	24,586	23,139	21,693
0	0	0	0	12,800	12,800	12,800	12,800	12,800	12,800	0	0	0	0	3,840	3,648	3,456	3,264	3,072	2,880
0	0	0	0	53,794	53,794	53,794	53,794	53,794	53,794	0	0	0	0	16,138	15,331	14,524	13,718	12,911	12,104
0	0	0	0	5,818	5,818	5,818	5,818	5,818	5,818	0	0	0	0	1,745	1,658	1,571	1,484	1,396	1,309
0	0	0	0	30,836	30,836	30,836	30,836	30,836	30,836	0	0	0	0	9,251	8,788	8,326	7,863	7,401	6,938
0	0	0	0	55,505	55,505	55,505	55,505	55,505	55,505	0	0	0	0	16,651	15,819	14,986	14,154	13,321	12,489
0	0	0	0	27,578	27,578	27,578	27,578	27,578	27,578	0	0	0	0	8,273	7,860	7,446	7,032	6,619	6,205
0	0	0	0	2,234	2,234	2,234	2,234	2,234	2,234	0	0	0	0	670	637	603	570	536	503
0	0	0	0	2,909	2,909	2,909	2,909	2,909	2,909	0	0	0	0	873	829	785	742	698	655
0	0	0	0	3,491	3,491	3,491	3,491	3,491	3,491	0	0	0	0	1,047	995	943	890	838	785
0	0	0	0	11,636	11,636	11,636	11,636	11,636	11,636	0	0	0	0	3,491	3,316	3,142	2,967	2,793	2,618
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	206,602	206,602	206,602	206,602	206,602	206,602	0	0	0	0	61,981	58,881	55,782	52,683	49,584	46,485