Kaitaia WASTEWATER: KTA WWTP Preferred Upgrade Option (1: Remove wetland + upgrade SRS + aerators + baffle curtain +clarifier + chemical dosing + UV) HG report Nov 2020 .

AVERAGE CAPITAL Rate - per connection	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
Option	$ -	$ -	$ -	$ 103.50	$ 102.33	$ 101.16	$ 99.99	$ 98.82	$ 97.65	$ 96.48

OPERATING Rate per connection	Rate based on opex spend on Options
Option	$ 71.06

Current connections	CAPITAL	OPERATING
Connections	2,605	12764
Availability	96	
Pans	852	4141
Weighted Numbers	**3212**	**15249**

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

			Cost Estimates							Depreciation											Debt Repayment											Interest									
Asset Detail	Total Spend	Average Depreciable Life	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
Option																																							
Septage Receiving System	119,772	20			119,772					0	0	0	5,989	5,989	5,989	5,989	5,989	5,989	5,989	0	0	0	5,989	5,989	5,989	5,989	5,989	5,989	5,989	0	0	0	1,797	1,707	1,617	1,527	1,437	1,347	1,258
Aerators and Baffle Curtains	2,855,624	20			2,855,624					0	0	0	142,781	142,781	142,781	142,781	142,781	142,781	142,781	0	0	0	142,781	142,781	142,781	142,781	142,781	142,781	142,781	0	0	0	42,834	40,693	38,551	36,409	34,267	32,126	29,984
Tertiary System	836,830	15			836,830					0	0	0	55,789	55,789	55,789	55,789	55,789	55,789	55,789	0	0	0	41,842	41,842	41,842	41,842	41,842	41,842	41,842	0	0	0	12,552	11,925	11,297	10,670	10,042	9,414	8,787
Site Upgrades 1	273,603	20			273,603					0	0	0	13,680	13,680	13,680	13,680	13,680	13,680	13,680	0	0	0	13,680	13,680	13,680	13,680	13,680	13,680	13,680	0	0	0	4,104	3,899	3,694	3,488	3,283	3,078	2,873
Site Upgrades 2	273,603	50			273,603					0	0	0	5,472	5,472	5,472	5,472	5,472	5,472	5,472	0	0	0	13,680	13,680	13,680	13,680	13,680	13,680	13,680	0	0	0	4,104	3,899	3,694	3,488	3,283	3,078	2,873
Opex	907,000	0			907,000					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
	5,266,432		**0**	**0**	**5,266,432**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**223,711**	**223,711**	**223,711**	**223,711**	**223,711**	**223,711**	**223,711**	**0**	**0**	**0**	**217,972**	**217,972**	**217,972**	**217,972**	**217,972**	**217,972**	**217,972**	**0**	**0**	**0**	**65,391**	**62,122**	**58,852**	**55,583**	**52,313**	**49,044**	**45,774**