

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Waitaki Catchment Present and Projected Demands (Community & Domestic Sectors Only) - Low, Medium & High Growth Scenarios																							
2																								
3																								
4	Present			Low Growth Estimate					Medium Growth Estimate					High Growth Estimate										
5	Catchment	Total Water use by Sector	Peak Flow (l/s)	Max Volume (m3/yr)	Probable Volume (m3/yr)	2011		2021		2051		2011		2021		2051		2011		2021		2051		
6						Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)	Volume (m3/yr)	Peak Flow (l/s)
6	1	Municipal	30.00	439,460	439,460	32.55	476,837	33.99	497,904	34.05	498,810	32.85	481,141	34.84	510,363	37.17	544,455	33.84	495,638	37.28	546,040	44.74	655,339	
7		Private Potable	1.98	62,441	24,977	2.15	27,101	2.24	28,298	2.25	28,350	2.17	27,345	2.30	29,006	2.45	30,944	2.23	28,169	2.46	31,034	2.95	37,246	
8	2	Municipal	35.69	1,156,685	578,343	38.73	627,531	40.44	655,256	40.51	656,449	39.08	633,196	41.45	671,652	44.22	716,519	40.25	652,275	44.35	718,605	53.22	862,446	
9		Private Potable	1.32	41,628	16,651	1.43	18,067	1.50	18,865	1.50	18,900	1.45	18,230	1.53	19,337	1.64	20,629	1.49	18,780	1.64	20,689	1.97	24,831	
10	3	Municipal	55.00	1,292,830	646,415	59.68	701,394	62.31	732,382	62.43	733,714	60.22	707,724	63.87	750,708	68.14	800,855	62.03	729,049	68.34	803,187	82.02	963,958	
11		Private Potable	0.79	24,977	9,991	0.86	10,840	0.90	11,319	0.90	11,340	0.87	10,938	0.92	11,602	0.98	12,378	0.89	11,268	0.98	12,414	1.18	14,898	
12	4	Municipal	15.00	473,040	236,520	16.28	256,636	16.99	267,975	17.03	268,462	16.42	258,953	17.42	274,680	18.58	293,029	16.92	266,756	18.64	293,882	22.37	352,707	
13		Private Potable	0.40	12,488	4,995	0.43	5,420	0.45	5,660	0.45	5,670	0.43	5,469	0.46	5,801	0.49	6,189	0.45	5,634	0.49	6,207	0.59	7,449	
14	5	Municipal	0.00	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	
15		Private Potable	0.00	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	
16	6	Municipal	4.00	109,865	54,933	4.34	59,605	4.53	62,238	4.54	62,351	4.38	60,143	4.65	63,795	4.96	68,057	4.51	61,955	4.97	68,255	5.96	81,917	
17		Private Potable	0.66	20,814	8,326	0.72	9,034	0.75	9,433	0.75	9,450	0.72	9,115	0.77	9,669	0.82	10,315	0.74	9,390	0.82	10,345	0.98	12,415	
18	7	Municipal	0.69	7,300	3,650	0.75	3,960	0.78	4,135	0.78	4,143	0.76	3,996	0.80	4,239	0.85	4,522	0.78	4,117	0.86	4,535	1.03	5,443	
19		Private Potable	3.17	99,906	39,962	3.44	43,361	3.59	45,277	3.60	45,359	3.47	43,753	3.68	46,410	3.92	49,510	3.57	45,071	3.94	49,654	4.72	59,593	
20	8	Municipal	99.00	4,744	2,372	107.42	2,574	112.17	2,688	112.37	2,692	108.39	2,597	114.97	2,755	122.65	2,939	111.66	2,675	123.01	2,947	147.63	3,537	
21		Private Potable	0.79	24,977	9,991	0.86	10,840	0.90	11,319	0.90	11,340	0.87	10,938	0.92	11,602	0.98	12,378	0.89	11,268	0.98	12,414	1.18	14,898	
22	9	Municipal	0.00	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	
23		Private Potable	0.79	24,977	9,991	0.86	10,840	0.90	11,319	0.90	11,340	0.87	10,938	0.92	11,602	0.98	12,378	0.89	11,268	0.98	12,414	1.18	14,898	
24	10	Municipal	60.00	1,892,014	946,007	65.10	1,026,466	67.98	1,071,816	68.10	1,073,767	65.69	1,035,731	69.68	1,098,636	74.34	1,172,025	67.67	1,066,940	74.55	1,175,438	89.47	1,410,721	
25		Private Potable	2.77	87,418	34,967	3.01	37,941	3.14	39,617	3.15	39,689	3.03	38,284	3.22	40,609	3.43	43,321	3.13	39,437	3.44	43,448	4.13	52,144	
26	11	Municipal	205.50	5,332,869	2,666,435	222.98	2,893,219	232.83	3,021,043	233.25	3,026,541	224.99	2,919,333	238.66	3,096,638	254.60	3,303,492	231.77	3,007,298	255.34	3,313,114	306.45	3,976,286	
27		Private Potable	5.54	174,836	69,934	6.02	75,882	6.28	79,235	6.29	79,379	6.07	76,567	6.44	81,217	6.87	86,643	6.25	78,874	6.89	86,895	8.27	104,289	
28	12	Municipal	49.00	1,081,860	540,930	53.17	586,937	55.52	612,868	55.62	613,983	53.65	592,235	56.91	628,204	60.71	670,168	55.26	610,080	60.88	672,119	73.07	806,655	
29		Private Potable	3.96	124,883	49,953	4.30	54,202	4.49	56,596	4.49	56,699	4.34	54,691	4.60	58,012	4.91	61,888	4.47	56,339	4.92	62,068	5.91	74,492	
30	13	Municipal	63.38	1,659,655	829,828	68.77	900,406	71.81	940,186	71.94	941,897	69.39	908,533	73.61	963,712	78.52	1,028,088	71.48	935,909	78.75	1,031,082	94.51	1,237,470	
31		Private Potable	8.71	274,742	109,897	9.45	119,244	9.87	124,512	9.89	124,738	9.54	120,320	10.12	127,627	10.79	136,153	9.83	123,945	10.82	136,549	12.99	163,882	
32	14	Municipal	65.83	1,999,799	999,899	71.43	1,084,942	74.58	1,132,876	74.72	1,134,937	72.07	1,094,735	76.45	1,161,223	81.56	1,238,793	74.25	1,127,721	81.80	1,242,401	98.17	1,491,087	
33		Private Potable	47.39	1,494,428	597,771	51.42	648,613	53.69	677,269	53.79	678,501	51.88	654,467	55.03	694,216	58.71	740,589	53.45	674,187	58.88	742,746	70.67	891,419	
34	15	Municipal	25.00	750,440	375,220	27.13	407,133	28.32	425,120	28.38	425,894	27.37	410,808	29.03	435,758	30.97	464,867	28.20	423,186	31.06	466,221	37.28	559,542	
35		Private Potable	6.34	199,812	79,925	6.87	86,723	7.18	90,554	7.19	90,719	6.94	87,505	7.36	92,820	7.85	99,020	7.15	90,142	7.87	99,309	9.45	119,187	
36	16	Municipal	102.19	3,220,468	1,610,234	110.88	1,747,187	115.78	1,824,379	115.99	1,827,699	111.88	1,762,957	118.68	1,870,029	126.60	1,994,947	115.25	1,816,078	126.97	2,000,757	152.39	2,401,241	
37		Private Potable	1.06	33,302	13,321	1.15	14,454	1.20	15,092	1.20	15,120	1.16	14,584	1.23	15,470	1.31	16,503	1.19	15,024	1.31	16,551	1.57	19,864	
38	Total Consented Flows By Catchment																							
39	1	Total for Catchment 1	31.98	501,901	464,437	34.70	503,938	36.23	526,202	36.30	527,159	35.01	508,486	37.14	539,369	39.62	575,399	36.07	523,808	39.74	577,074	47.69	692,585	
40	2	Total for Catchment 2	37.01	1,198,313	594,994	40.16	645,599	41.93	674,122	42.01	675,348	40.52	651,426	42.98	690,990	45.85	737,148	41.74	671,055	45.99	739,295	55.19	887,276	
41	3	Total for Catchment 3	55.79	1,317,807	656,406	60.54	712,234	63.21	743,701	63.33	745,054	61.08	718,663	64.79	762,310	69.12	813,232	62.92	740,317	69.32	815,601	83.20	978,856	
42	4	Total for Catchment 4	15.40	485,528	241,515	16.71	262,057	17.44	273,634	17.48	274,132	16.86	264,422	17.88	280,481	19.07	299,218	17.36	272,389	19.13	300,089	22.96	360,157	
43	5	Total for Catchment 5	0.00	0	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	
44	6	Total for Catchment 6	4.66	130,679	63,258	5.06	68,638	5.28	71,671	5.29	71,801	5.10	69,258	5.41	73,464	5.77	78,371	5.26	71,345	5.79	78,600	6.95	94,333	
45	7	Total for Catchment 7	3.86	107,206	43,612	4.19	47,322	4.37	49,412	4.38	49,502	4.22	47,749	4.48	50,649	4.78	54,032	4.35	49,188	4.79	54,190	5.75	65,036	
46	8	Total for Catchment 8	99.79	29,721	12,363	108.28	13,414	113.06	14,007	113.27	14,032	109.26	13,535	115.89	14,357	123.63	15,316	112.55	13,943	123.99	15,361	148.81	18,436	
47	9	Total for Catchment 9	0.79	24,977	9,991	0.86	10,840	0.90	11,319	0.90	11,340	0.87	10,938	0.92	11,602	0.98	12,378	0.89	11,268	0.98	12,414	1.18	14,898	
48	10	Total for Catchment 10	62.77	1,979,432	980,974	68.11	1,064,407	71.12	1,111,434	71.25	1,113,456	68.73	1,074,015	72.90	1,139,245	77.77	1,215,346	70.80	1,106,377	78.00	1,218,886	93.61	1,462,865	
49	11	Total for Catchment 11	211.04	5,507,705	2,736,369	228.99	2,969,101	239.11	3,100,278	239.55	3,105,920	231.06	2,995,901	245.09	3,177,855	261.								

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
72	Total Projected Consent Flows By Year for All Catchments																							
73	Present	2001 - 2004	Peak Flow		895.95		(l/s)																	
74			Max Annual		22,122,655		(m3/year)																	
75			Probable Annual		11,010,895		(m3/year)																	
76	Low Growth	2011	Peak Flow		972.15		(l/s)																	
77			Probable Annual		11,947,388		(m3/year)																	
78		2021	Peak Flow		1,015.10		(l/s)																	
79			Probable Annual		12,475,230		(m3/year)																	
80		2051	Peak Flow		1,016.95		(l/s)																	
81			Probable Annual		12,497,933		(m3/year)																	
82	Medium Grov	2011	Peak Flow		980.92		(l/s)																	
83			Probable Annual		12,055,227		(m3/year)																	
84		2021	Peak Flow		1,040.50		(l/s)																	
85			Probable Annual		12,787,395		(m3/year)																	
86		2051	Peak Flow		1,110.01		(l/s)																	
87			Probable Annual		13,641,591		(m3/year)																	
88	High Growth	2011	Peak Flow		1,010.48		(l/s)																	
89			Probable Annual		12,418,473		(m3/year)																	
90		2021	Peak Flow		1,113.24		(l/s)																	
91			Probable Annual		13,681,321		(m3/year)																	
92		2051	Peak Flow		1,336.07		(l/s)																	
93			Probable Annual		16,419,855		(m3/year)																	
94																								
95																								
96																								
97																								
98	Note that industrial & commercial stated above is only for independently consented operations NOT on town supply.																							
99	Large Commercial is more or less indistinguishable from Industrial (ie small operations are likely to occur in townships)																							