

	Richmond	Mapua	Brightwater	Wakefield
2018	13606	2114	1921	2020
2039	16396	2506	2412	2471
Average Increase per yer	133	19	23	21
	133	20	20	20
Increase to design horizon	1862	280	280	280
2053		2786	2692	2751
2053	18258		8229	
	2018	2053		
Residential				
Nelson contributing EP				
Stoke	19310	23,895		
Tahuna	5780	6,450		
Nelson contributing EP	25090	30345		
Tasman contributing EP				
Richmond	13606	18258		
Mapua, Wakefield, Brightwat	6055	8229		
Tasman contributing EP	19661	26487		
Residential Population	44751	56832		
Residential	44751	56832		
Average ADWF Flow factor	256	256	L/hd.day	
	11456	14549	m3/day	
Per capita Contaminant Loads for Residential/Commercial Sources				
COD	141	140.7	g/hd.day	
BOD	70	70.4	g/hd.day	
TSS	78	78.2	g/hd.day	
TKN	13.9	13.9	g/hd.day	
TP	2.3	2.3	g/hd.day	
Residential/Commercial Contaminant Loads (kg/day)				
COD	6298	7998	kg/day	
BOD	3149	3999	kg/day	
TSS	3499	4443	kg/day	
TKN	620	787	kg/day	
TP	105	133	kg/day	
Industrial Contribution Contaminant Loads (kg/day): Peak Month				
Flow	4000	4000		
COD	13500	13500	kg/day	
BOD	6750	6750	kg/day	
TSS	4000	4000	kg/day	in parallel with peak COD load
TKN	200	200	kg/day	
TP	40	40	kg/day	
based on a COD:BOD ratio of	2	:1		
Industrial Contribution Contaminant Loads (kg/day): Typical Month (summer)				
Flow	2000	2000		
COD	8000	8000	kg/day	
BOD	4000	4000	kg/day	
TSS	2500	2500	kg/day	in parallel with peak COD load
TKN	140	140	kg/day	
TP	20	20	kg/day	
based on a COD:BOD ratio of	2	:1		
Predicted Combined Flows and Loads: Summer ADWF plus Peak Month Industry: EXCL. INFILTRATION				
	2018	2053		
Flow	15456	18549		
COD	19798	21498		
BOD	9899	10749		
TSS	7499	8443		
TKN	820	987		
TP	145	173		
Predicted Combined Flows and Loads: Summer ADWF plus Peak Month (summer) Industry				
	2018	2053		
Flow	13456	16549		
COD	14298	15998		
BOD	7149	7999		
TSS	5999	6943		
TKN	760	927		
TP	125	153		