

I have looked at the visual clarity (black disc) non-compliances. My time periods are slightly different to Dr Greer's, but the numbers are still comparable.

- I looked from start 2012 to February 2021.
- During that period there were 86 samples with a total of 18 non-compliances (20%)
- Dr Greer's number set was 88 samples with a total of 17 non-compliances
- Rainfall, high flows and unknown events (no results from WWTP) account for 8 of these.
- My best estimation is that 6 - 8 of these events are most likely derived from the treatment plant itself. This equates to 7 - 9%. I am unable to work out if these relate to activities at the plant at the time.

Date	decrease (%)	Woodville STP at Secondary oxpond waste		Flow (Mangaatua at Hopelands)	Rainfall (Kumeti at Rua Roa)	comment
		Max of TSS (HRC)	Max of POM (HRC)	Daily mean flow (l/s)	mm rainfall in previous 3 days	
12/06/2012	33%	8.8	7.4	1573	10.2	high flow; high rainfall
11/09/2012	33%	1	1	2296	43.4	high flow; high rainfall
12/03/2013	50%	41	30	129	0.5	WWTP possible
14/10/2014	37%	13	8	634	0	unclear (low TSS and rainfall)
9/12/2014	38%	65	41	832	0	WWTP possible
27/01/2015	55%	35	18	323	0	WWTP possible
17/02/2015	63%	78	52	345	2	WWTP possible
10/03/2015	60%	98	76	332	11.5	high rainfall
12/04/2016	40%	45	32	346	11.6	high rainfall
17/01/2017	44%			367	3.7	unknown
9/05/2017	39%	8	7	4237	9	high flow; high rainfall
13/02/2018	39%	225	198	451	31	high rainfall; high TSS
15/01/2019	41%	138	116	686	15	high rainfall; high TSS
12/02/2019	59%	184	151	110	0	WWTP likely
12/03/2019	59%	134	110	172	8	WWTP likely (though some rainfall)
14/05/2019	44%	81	76	1189	20	high rainfall
17/09/2019	42%	20	10	667	3.5	possibly rainfall
16/02/2021	34%	31	26	1223	48.5	high flow; high rainfall
				3x median flow = 2016		
				median flow = 672		