

21-Aug-23	Requirement Measurement Blue Drop	Ashton	Bonnievale	McGregor	Montagu	Robertson	Total Samples	Total Samples Complying
Treated Water								
Inflow ML			57					
pH (at 25°C)	≥5.00 - ≤9.70	6,98	7,02	7	6,92	6,81	5,00	5,00
Conductivity (at 25°C)	≤170	43,1	31,5	11	38,9	5	5,00	5,00
Turbidity (NTU)	≤1.0 Operational							
	≤5.0 -Aeshetic	0,93	5	1,1	0,66	1,3	5,00	5,00
Colour (mg/L as Pt)	≤15	<4	5	<4	<4	<4	5,00	5,00
Aluminium (µg/L as Al)	≤300	194	609	358	135	116	5,00	3,00
Iron (µg/L as Fe)	≤300 Aesthetic							
	≤2000 Chronic Health	22	226	<20	24	81	5,00	5,00
Free Chlorine (mg/L)	>0.0 - ≤5	1,57	0,88	1,7	0,55	0,74	5,00	5,00
E.Coli (cnt/100ml)	Not Detected	<1	<1	<1	<1	<1	5,00	5,00
Total Coliform Bacteria	≤10	<1	<1	<1	<1	<1	5,00	5,00
							10,00	10,00

Parameters	Unit	GENERAL LIMITS	SPECIAL LIMITS	21-Aug-23				Requirement Measurement (Irrigation 500m³)	Mc-Gregor	Total Samples	Total Samples Complying
				Ashton	Bonnievale	Montagu	Robertson				
Average daily flows (ML)											
pH	at 25°C	5.5 - 9.5	5.5 - 7.5	7,80	7,4	7,7	7,7	6.00 - 9.00	8,2	5	5
Conductivity	mS/m	<70.0 - <150	50mS/m above intake	208	195	129	193	<200	183	5	2
COD Unfiltered	mg/L			108	213	56,2	169			0	0
COD Filtered	mg/L	<75.0 After Algae Removal	30	96,3	161,0	28,1	116,0	<400	185	5	2
Ammonia as N	mg/L	6.0 max	2.0	55,7	87,5	13,1	56	N/A		4	0
Nitrate as N	mg/L	15.0 max	1.5	<0,20	<0,20	<0,20	<0,20	N/A		4	4
Nitrite as N	mg/L	15.0 max		<0,20	<0,20	<0,20	<0,20	N/A		0	0
Free Chlorine	mg/L	<0.25	0	0,40	0,05	0,5	<0,05	N/A		0	0
TSS	mg/L	25	10	14	990	18	37	N/A		4	2
Ortho-P	mg/L	10	1 med 2,5max	3,70	36,5	4,5	5,6				0
Soap, oil or grease	mg/L	3	0								0
Faecal Coliforms	Org/100 ml	1000 max	1000	1103	>2419	517	>2419	<100 000	6 870	5	2
E Coli	Org/100 ml	1000,0		1120	>2419	488	>2419	N/A		5	1
									100 %	37,00	18,00

	All the activated sludge plants are not performing well on physical & chemical parameters except Montagu. I suspect that Montagu ponds has slugde in it so anaerobic environment took place hence the NH2 is out of limit.									48,65
Ashton	The Dosing system was recently installed, there's huge improvement and effectiveness.									
Bonnievale	The aeration unit went for repairs so the supply of O2 was very low hence it poorly performed.									