

Sep-26									
Treated Water	Requirement Measurement Blue Drop Standards	Ashton	Bonnievale	McGregor	Montagu	Robertson	Total	Compliance	
Treated Water	Treated Water ML/month	117,26	175,74	24,14	78,41	234,58	630,13		
pH (at 25°C)	≥5.00 - ≤9.70	7,39	7,66	4,49	7,22	6,94	5,00	4,00	
Conductivity (at 25°C)	≤170	111	111	9,3	48,9	43,7	5,00	5,00	
Turbidity (NTU)	≤1.0 Operational						0,00	0,00	
	≤5.0 -Aeshetic	2,78	0,82	1,61	<0,30	0,58	5,00	5,00	
Colour (mg/L as Pt)	≤15	<10	10	<10	<10	<10	5,00	5,00	
Aluminium (µg/L as Al)	≤300 Operational	50,4	75.1	117	24,4	49,1	5,00	5,00	
Iron (µg/L as Fe)	≤300 Aesthetic ≤2000 Chronic Health	<20	<20	<20	<20	<20	5,00	5,00	
Free Chlorine (mg/L)	>0.0 - ≤5	0,15	0,28	3,33	1,56	0,48	5,00	5,00	
E.Coli (cnt/100ml)	Not Detected	0	0	0	0	0	5,00	5,00	100%
Total Coliform Bacteria	≤10	0	22	0	0	0	5,00	4,00	80%
Total Samples per month							45,00	43,00	

Notes on non-compliances

McGregor pH: Daily operational tests are done and the average pH for Sept 2026 is between 6,5 – 7,5 operationally.

Bonnievale Coliform: The chlorinator was partially blocked. Cleaning and operational adjustment was done after its was discovered

GENERAL NOTE:

These results are from a sample which is done by an independent accredited laboratory once a month.

This is a legislative requirement from the Department of Water and Sanitation.

The frequency (once per month) is determined by the population of the Municipality.

The results is not an accurate reflection of water quality as corrective actions are taken immediately when a parameter is not compliant.

FINAL EFFLUENT

Sep-26

Parameter	Unit	Value	SPECIAL LIMITS	Sep-26							
				Ashton	Bonnievale	Montagu	Robertson	Requirement Measurement (Irrigation 500m³)	McGregor	Total Samples	Total Samples Complying
Average daily flows (ML)				2,45	1,8ML	3,5ML	4,2ML		0,3		
pH	at 25°C	5.5 - 9.5	5.5 - 7.5	7,22	7,58	7,16	7,4	6.00 - 9.00	7,27	5	5
Conductivity	mS/m	<70.0 - <150	50mS/m above intake	226,0	237	151	106	<200	127	5	2
COD Unfiltered	mg/L	<75.0 After Algae Removal	Compliance	23	53,0	20	17	<400	204	5	5
COD Filtered	mg/L		Operationally	45,0	53,0	81,0	82,0				
Ammonia as N	mg/L	6.0 max	2.0	0,1	0,54	<0,1	<0,1	N/A		4	4
Nitrate as N	mg/L	15. 0 max	1.5	3,1	2,26	<0,1	1,79	N/A		4	1
Free Chlorine	mg/L	<0.25	0	0,76	0,75	0,78	0,69	N/A		0	0
TSS	mg/L	25	10	<2	54	<2	38	N/A		4	2
Ortho-P	mg/L	10	1 med 2,5max	5,49	8,43	9,09	4,74			4	4
Faecal Coliforms	Org/100 ml	1000 max	1000	31	8000	18	90	<100 000	20 000	5	3
Total compliance				9	7	8	8		4	40,00	30,00
										75,00%	

Notes on compliances and non-compliances

The microbial downstream for the following: Robertson, Montagu, Ashton complies so there is no pollution at the rivers.

In Bonnievale, the total Cl2 is adequate however due to less retention time the plant shows non-compliance.

McGregor irrigation water is ozonated. If no irrigation is done, ozone is not applied.