

Parameters	Unit		15-Nov-21				Requirement Measurement (Irrigation 500m ³)	Mc-Gregor	Total Samples	Total Samples Complying
			Ashton	Bonnievale	Montagu	Robertson				
Average daily flows (ML)			None	Faulty	2,4326	5,5095		0,2116		
pH	at 25°C	5.5 - 9.5	7,62	7,44	7,54	7,37	6.00 - 9.00	7,52	5	5
Conductivity	mS/m	>70.0 - <150	184	157	151	179	<200	133	5	0
COD Unfiltered	mg/L	>75.0	800	4115	1332	870	<400	1104	0	0
COD Filtered	mg/L	>75.0 After Algae Removal	81,0	184,0	81,0	444,0	N/A		4	0
Ammonia as N	mg/L	6.0 max	25,1	24,4	17,5	24,8	N/A	21,4	4	0
Nitrate as N	mg/L	15.0 max	1,6	<0,10	0,1	0,68	N/A		4	4
Nitrite as N	mg/L	15.0 max	0,00	0	0	0	N/A		0	0
Free Chlorine	mg/L	<0.25	0,18	0,4	0,3	0,36	N/A		0	0
TSS	mg/L	25	8	50	11,6	330	N/A		4	2
Faecal Coliforms	Org/100 ml	1000 max	>2000	>2000	>2000	>20000	<100 000	>2000	5	1
E Coli	Org/100 ml	1000,0					N/A		0	
								100 %	38,71	
								Total	31	12

RWWTW: The overall performance of the plant is poor because the plant is not operating as I should. Firstly, the average daily inflow is beyond design operational specifications. Mechanical screen is faulty meaning the PST are affected. Desludging digester pump cables were stolen now there is no desludging from the PST. The secondary settling tank is not in operation due to faulty wheel bearing. Mix liquor suspended solid are too high in the bioreactor due to the fact that wasting pump cables were stolen so there is no wasting. All the carry overs goes to the maturation ponds, look at filtered COD and Nh3.

ASHTON WWTW: The new plant is not in operation because PST 2 is faulty, it is currently in a refurbishment process. All the inflow was diverted to the old plant and it does not have the capacity to handle the hydraulic load as a result NH3 is high.

BONNIEVALE WWTW: The plant does not have capacity to waste adequately because dry beds are not sufficient to desludge as it should.

MONTAGU WWTW: All the pump stations at montagu has backup generators except WWTW. Now the raw water keeps on coming in from the pump stations while the plant is not in operation. The generator is faulty, the requisition was loaded but there is no trace on the system. The PC's are wasting every second day to the dry beds.

The overall performance of the WWTW in Langeberg is not good because the unit process are not fixed on time.

13-Oct-21		Requirement Measurement Blue Drop Standards	Ashton	Bonnievale	McGregor	Montagu	Robertson	Total Samples	Total Samples Complying
Treated Water									
Inflow ML									
pH (at 25°C)		≥5.00 - ≤9.70	7,72	8,53	6,94	7,16	6,22	5,00	5,00
Conductivity (at 25°C)		≤170	100	100	12,3	53,5	5,51	5,00	5,00
Turbidity (NTU)		≤1.0 Operational						5,00	5,00
		≤5.0 -Aeshetic	0,45	0,34	0,45	1,47	2,15	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	66	127	124	10	68	5,00	5,00
Iron (µg/L as Fe)		≤300 Aesthetic ≤2000 Chronic Health	<20	<20	20	60	<20	5,00	5,00
Free Chlorine (mg/L)		>0.0 - ≤5	0,43	0,06	<0,02	0,69	0,58	5,00	5,00
E.Coli (cnt/100ml)		Not Detected	0	0	0	0	0	5,00	5,00
Total Coliform Bacteria		≤10	0	0	0	0	1	5,00	5,00
								10,00	10,00