

## Water Quality of Final Effluent :Waste Water Treatment Works: Klip River Catchment

Period: 1 July 2017 to 30 June 2018

Sample Point	Period	Flow Ml/day	Element							
			pH	Conductivity mS/M	COD mg/l	N-NH <sub>4</sub> mg/l	N-NO <sub>x</sub> mg/l	P-PO <sub>4</sub> mg/l	Suspended solids mg/l	E-coli MPN /100 ml
Dekema	1	29.71	7.31	43	41.75	2.75	3.75	0.27	11	3122
	2	29.79	7.23	50	40.76	1.97	5.51	0.27	11	140
	3	30.19	7.30	58	42.39	2.34	4.61	0.41	11	2764
	4	28.69	7.38	66	43.25	3.66	5.22	0.35	11	524
Rondebult	1	13.74	7.37	94	60.43	2.50	7.00	0.33	16	5141
	2	19.02	7.29	85	49.83	2.07	7.48	0.24	15	1000
	3	17.70	7.32	82	34.28	6.11	6.11	0.33	12	166
	4	18.32	7.37	80	45.39	5.45	5.45	0.25	13	31
Vlakplaats	1	93.76	7.00	67	37.00	7.67	4.67	0.23	7	83
	2	103.81	7.21	62	32.78	6.74	4.10	0.13	6	1472
	3	106.89	7.27	65	33.97	5.40	3.73	0.17	5.7	245
	4	98.42	7.18	68	34.77	7.47	3.40	0.25	6	101
Waterval	1	236.69	7.39	81	37.17	1.40	3.86	0.28	11	143
	2	281.04	7.32	77	33.66	1.45	4.44	0.21	10	413
	3	309.40	7.34	67	31.58	1.43	2.42	0.14	11	132
	4	297.06	7.44	77	32.67	1.16	3.13	0.16	11	167

### Remarks

**Dekema:** Non compliance of E. coli due to blockage of the DBF dosing line resulting from a build up of sediments in the bulk storage tanks.

**Rondebult:** Complied to required standards.

**Vlakplaats:** Complied to required standards.

**Waterval:** Complied to required standards.

Ideal
Acceptable
Tolerable
Unacceptable

### WUL STANDARDS

SAMPLE POINT	PHYSICAL (CATERGORY 2)			CHEMICAL (CATERGORY 3)				MICRO (CATERGORY 1)
	pH	EC	SS[mg/l]	COD[mg/l]	NH <sub>3</sub> [mg/l]	NO <sub>3</sub> (mg/l)	PO <sub>4</sub> [mg/l]	E-Coli (MPN)
DEKEMA	6.5-8.5	75	20	70	7.0	8.0	0.7	500
RONDEBULT	6.5-8.5	90	20	70	7.0	9.0	0.7	500
VLAKPLAATS	6.0-9.0	100	20	70	9.0	7.0	1.0	500
WATERVAL	6.0-8.5	100	20	70	4.0	9.0	0.7	500

Period:	1	1 July 2017 to 30 September 2017
	2	1 October 2017 to 31 December 2017
	3	1 January 2018 to 31 March 2018
	4	1 April 2018 to 30 June 2018