



DEPARTMENT: CIVIL ENGINEERING SERVICES: GEORGE MUNICIPALITY LABORATORY SERVICES
CERTIFICATE OF ANALYSIS: GEORGE WASTEWATER TREATMENT WORKS: JULY 2019 - JUNE 2020 AVERAGES

PARAMETERS	LICENCE IN TERMS OF CHAPTER 4 OF NATIONAL WATER ACT 1998	OUTENIQUA	GWAING	KLEINKRANTZ	DWS GENERAL AUTHORISATION 2013 - Up to 500m3/d	UNIONDALE	HAARLEM	HEROLDS BAY
Ammonia as mg/l N	6	7.224	1.724	0.263		23.731	54.567	20.684
COD (mg/L)	75	88	44	50	400	78	151	185
Electrical Conductivity (mS/m)	70	77	63.2	62.15	200	101.2	79.3	90.4
Nitrate (mg/L)	15	3.17	6.373	4.814		1.586	0.575	0.661
Ortho - Phosphate (mg/L)	10	0.587	0.570	2.804		6.205	3.899	8.267
pH	5.5 - 9.5	7.43	7.34	7.31	6 - 9	7.59	7.95	8.20
Suspended solids (mg/L)	25	23	15	8		32	96	116
E coli (count/100mL)	1000 count/100ml	385	227		100 000 count/100ml	526	11500	3836
E coli (count/100mL)	150count/100ml			633				

The Department of Water and Sanitation (DWS) requires municipalities to inform residents of the quality of the effluent from its Wastewater Treatment Works (WwTW). The quality of effluent must conform to either the General or Special Standard of the DWS General Authorization of 2013. The table above illustrates the averages for George Municipality's WwTW, for the determinants in comparison with the DWS General Authorization and License in terms of chapter 4 and Section 39 of the National Water Act, 1998 (Act No. 36 of 1998). Final effluent samples are analyzed weekly and the results are reported on the DWS Green Drop System (GDS) website.



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