

Parameters	Bredasdorp Municipal Stores	Waenhuiskrans Clinic	Struisbaai Municipal Offices	L' Agulhas Municipal Offices	Suiderstrand Rasper Avenue	Elim Dairy	Spanjaardskloof Brikkeis Residence	Napier Municipal Office	Protem Primary School	Klipdale Primary School	Unit	Limit SANS 241: 2015 (Water for Domestic Supplies)
Microbiological Parameters												
Cryptosporidium Species	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Count/ 10L	0
E.coli (MF)	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Cfu's /100 mL	0
Faecal Coliforms	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Cfu's /100 mL	0
Giardia Species	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Count/ 10L	0
Heterotrophic Plate Count	100	11	9	>1000	265	5	Not Detected	1	1	9	Cfu's / 1 mL	<1000
Somatic Coliphages	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Count / 10mL	0
Total Coliforms ^b	Not Detected	2	2	Not Detected	28	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	Cfu's /100 mL	<10
Physical/Aesthetic Parameters												
Colour (True)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	13.0	<10.0	<10.0	<10.0	Pt-Co-true	<15
Electrical Conductivity @ 25°C	41.1	103	105	142	167	37.5	72.5	50.4	35.9	11.2	mS/m	<170
pH @ 25°C	7.10	7.27	7.85	7.91	7.83	6.49	8.25	7.67	6.24	8.17	pH units	5 – 9.7
Total Dissolved Solids	275	690	701	954	1116	251	486	338	241	75	mg/L	<1 200
Turbidity	0.81	0.36	<0.30	<0.30	<0.30	0.78	4.12	0.79	0.75	2.48	NTU	<5
Chemistry (Macro) Parameters												
Ammonium (NH ₄ -N)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	mg/L	<1.5
Chloride as Cl-	96.3	265	188	284	370	104	199	108	73.5	14.8	mg/L	<300
Fluoride as F-	0.11	0.16	0.23	0.21	0.20	0.10	0.11	0.12	0.12	0.12	mg/L	<1.5
Monochloramine	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	<0.09	mg/L	<3
Nitrate as Nitrogen	<0.10	4.96	0.22	2.26	2.24	0.15	0.91	0.32	<0.10	<0.10	mg/L	<11
Nitrite as N	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	mg/L	<0.9
Nitrate/Nitrite (NO ₃ -N/NO ₂ -N)	0.010	0.460	0.040	0.220	0.210	0.020	0.100	0.040	0.020	0.020	Cal	<1
Sodium as Na	49.1	162	92.2	151	197	45.1	120	50.2	36.2	11.3	mg/L	<200
Sulphate as SO ₄ ²⁻	39.2	15.1	31.0	47.9	51.6	11.6	12.1	12.7	48.9	13.8	mg/L	<250
Zinc as Zn	<0.05	<0.05	<0.05	<0.05	0.05	<0.05	<0.05	0.05	0.18	<0.05	mg/L	<5

<100	Bredasdorp Municipal Stores	Waenhuiskrans Clinic	Struisbaai Municipal Offices	L' Agulhas Municipal Offices	Suiderstrand Rasper Avenue	Elim Dairy	Spanjaardskloof Brikkeis Residence	Napier Municipal Office	Protem Primary School	Klipdale Primary School	Unit	Limit SANS 241: 2015 (Water for Domestic Supplies)
Chemistry (Macro) Parameters												
Aluminium as Al	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	173	<10.0	<10.0	<10.0	µg/L	<300
Antimoy as Sb	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	µg/L	<20
Arsenic as As	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	µg/L	<10
Barium as Ba	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	µg/L	<700
Boron as B	<100	294	124	170	173	<100	<100	<100	<100	<100	µg/L	<2 400
Cadmium as Cd	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	µg/L	<3
Chromium as Cr	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	µg/L	<50
Copper as Cu	<20.0	<20.0	32.5	33.7	35.6	<20.0	<20.0	<20.0	<20.0	<20.0	µg/L	<2 000
Cyanide as CN-	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	µg/L	<200
Iron as Fe	<20.0	<20.0	43.2	27.8	65.5	60.9	221	<20.0	39.3	58.2	µg/L	<300
Lead as Pb	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	µg/L	<10
Manganese as Mn	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	43.5	<20.0	<20.0	<20.0	µg/L	<100
Mercury as Hg	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	µg/L	<6
Nickel as Ni	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	µg/L	<70
Selenium as Se	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	µg/L	<40
Uranium as U	<5.00	<5.00	<5.00	<5.00	9.19	<5.00	<5.00	<5.00	<5.00	<5.00	µg/L	<30
Organic Paramters (THM's)												
Bromodichloromethane	<20	<20	<20	<20	<20	21	<20	<20	26	<20	µg/L	<60
Bromoform	<20	<20	37	<20	<20	26	<20	61	<20	<20	µg/L	<100
Chloroform	<20	<20	<20	<20	<20	<20	22	<20	<20	<20	µg/L	<300
Dibromochloromethane	29	<20	<20	<20	<20	50	<20	23	33	<20	µg/L	<100
Trihalomethanes as Total THM	<80.0	<80.0	<80.0	<80.0	<80.0	97.0	<80.0	84.0	<80.0	<80.0	µg/L	

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Organic Parameters												
Microcystins	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	µg/L	<1
Phenols	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	µg/L	<10
Total Organic Carbon	2.12	0.68	0.73	0.59	<0.50	0.98	4.14	0.61	1.15	1.46	mg/L	<10
On Site												
Free Chlorine	0.14	0.01	0.12	0.03	0.05	0.06	0.03	0.20	0.05	0.05	mg/L	<5

The limits for the consumption of water are based on the consumption of 2 litres of water per day by a person of mass 70 kg over a period of 70 years.

The limits given are based on aesthetic aspects.

^a No primary health effect – low pH values can result in structural problems in the distribution system

^b These values can indicate process efficiency and risks associated with pathogens.