

**Health determinands**

Determinand	Risk	Unit	Minimum	Average	Maximum	SANS 241:2011 Limits
<i>E. coli</i> a or faecal coliforms	Acute health – 1	Count per 100 mL	0	0 <sup>#</sup>	0	Not detected
Nitrate as N	Acute health – 1	mg/L	0.21	0.26	0.33	≤ 11
Nitrite as N	Acute health – 1	mg/L	<0.05	<0.05	<0.05	≤ 0,9
Sulfate as SO <sub>4</sub> <sup>2-</sup>	Acute health – 1	mg/L	3.75	5.26	7.09	≤ 500
Cyanide (recoverable) as CN <sup>-</sup>	Acute health – 1	µg/L	<10.00	<10.00	<10.00	≤ 70
Total Chlorine	Chronic health	mg/L	0.90	1.25	1.80	≤ 5
Fluoride as F <sup>-</sup>	Chronic health	µg/L	<100	n/a	102	≤ 1500
Antimony as Sb	Chronic health	µg/L	<20.00	<20.00	<20.00	≤ 20
Arsenic as As	Chronic health	µg/L	<20.00	<20.00	<20.00	≤ 20
Cadmium as Cd	Chronic health	µg/L	<1.00	<1.00	<1.00	≤ 3
Total chromium as Cr	Chronic health	µg/L	<3.00	<3.00	<3.00	≤ 50
Cobalt as Co	Chronic health	µg/L	<20.00	<20.00	<20.00	≤ 500
Copper as Cu	Chronic health	mg/L	<0.05	<0.05	<0.05	≤ 2.0
Iron as Fe	Chronic health	mg/L	<0.02	n/a	0.23	≤ 2.0
Lead as Pb	Chronic health	µg/L	<4.00	<4.00	<4.00	≤ 10
Manganese as Mn	Chronic health	mg/L	<0.01	<0.01	<0.01	≤ 0.5
Mercury as Hg	Chronic health	µg/L	<0.50	<0.50	<0.50	≤ 6
Nickel as Ni	Chronic health	µg/L	<3.00	<3.00	<3.00	≤ 70
Selenium as Se	Chronic health	µg/L	<1.00	<1.00	<1.00	≤ 10
Vanadium as V	Chronic health	µg/L	<10.00	<10.00	<10.00	≤ 200
Total organic carbon as C	Chronic health	mg/L	1.80	2.22	2.78	≤ 10
Chloroform	Chronic health	µg/L	15.40	17.50	19.70	≤ 300
Bromoform	Chronic health	µg/L	<0.10	<0.10	<0.10	≤ 100
Dibromochloromethane	Chronic health	µg/L	5.57	6.53	8.38	≤ 100
Bromodichloromethane	Chronic health	µg/L	7.76	9.72	13.10	≤ 60

**Aesthetic Determinands**

Determinand	Risk	Unit	Minimum	Average	Maximum	SANS 241:2011 Limits
Colour	Aesthetic	mg/L Pt-Co	<1.00	n/a	1.70	≤ 15
Conductivity at 25 °C	Aesthetic	mS/m	10.68	13.44	15.86	≤ 170
Odour	Aesthetic		0	0	0	Inoffensive
Taste	Aesthetic		0	0	0	Inoffensive
Total dissolved solids	Aesthetic	mg/L	55.00	77.33	100.00	≤ 1 200
Turbidity	Aesthetic	NTU	0.07	0.14	0.26	≤ 5
Sulfate as SO <sub>4</sub> <sup>2-</sup>	Aesthetic	mg/L	3.75	5.26	7.09	≤ 250
Chloride as Cl <sup>-</sup>	Aesthetic	mg/L	12.50	14.47	17.70	≤ 300
Sodium as Na	Aesthetic	mg/L	8.73	10.36	13.00	≤ 200
Zinc as Zn	Aesthetic	mg/L	<0.03	<0.03	<0.03	≤ 5
Iron as Fe	Aesthetic	mg/L	<0.02	n/a	0.23	≤ 0.30
Manganese as Mn	Aesthetic	mg/L	<0.01	<0.01	<0.01	≤ 0.10
Ammonia as N	Aesthetic	mg/L	< 0.04	n/a	0.10	≤ 1.5
Phenols	Aesthetic	µg/L	<10.00	<10.00	<10.00	≤ 10

**Operational Determinands**

Determinand	Risk	Unit	Minimum	Average	Maximum	SANS 241:2011 Limits
Total coliforms	Operational	Count per 100 mL	0	0 <sup>#</sup>	0	≤ 10
Heterotrophic plate count	Operational	Count per mL	0	0 <sup>#</sup>	2	≤ 1 000
Somatic coliphages	Operational	Count per 10 mL	0	0 <sup>#</sup>	0	Not detected
Turbidity	Operational	NTU	0.07	0.14	0.26	≤ 1
pH at 25° C	Operational	pH units	7.6	-	8.1	≥ 5 to ≤ 9,7
Aluminium as Al	Operational	µg/L	<10.00	n/a	51.90	≤ 300
Free chlorine	Operational	mg/L	0.80	1.01	1.20	0.8 - 1.2*
Total chlorine	Operational	mg/L	0.90	1.25	1.80	

\*UW Internal Operating Limit

# Value represents the median

When only one sample taken within date range, minimum = average = maximum.

N/A cannot be calculated since some results are below detection limit.