CITY OF CAPE TOWN QUARTERLY DRINKING WATER QUALITY REPORT. ANALYTICAL DATA AND APPROXIMATE DISTRIBUTION FOR CAPE TOWN DRINKING WATER. Sample period: 1 July 2023 to 30 September 2023

When our residents open their taps, they can trust their water is reliable, tested, treated and safe to drink. The City of Cape Town is legally required to publish tap water quality analytical data once a year, to demonstrate continued compliance with water quality standards, or inform residents of possible risks. City of Cape Town tap water has for many years maintained 'excellent' compliance status with prescribed national drinking water quality standards (SANS 241). The annual tap water quality reports from 2014 are available on the City's website (www.capetown.gov.za/waterquality). Regular monthly updates are also available on the National Department of Water and Sanitation's 'My Water' page for water quality (http://ws.dwa.gov.za/IRIS/mywater.aspx). This 'excellent' quality City water costs only 5c to 8c a litre compared to about R10 a litre for shop-bought bottled water. See the water quality results below provided across Cape Town for the 01 July 2023 to 30 September 2023 period.

PARAMETERS	SANS 241:2015 Specifications	BLACKHEATH SUPPLY Typical Analysis MAX 430 Mℓ/day	FAURE SUPPLY Typical Analysis MAX 500 Mℓ/day	KLOOF NEK SUPPLY Typical Analysis MAX 22.5 Mℓ/day	STEENBRAS SUPPLY Typical Analysis MAX 150 Mℓ/day	VOËLVLEI SUPPLY Typical Analysis MAX 273 Mℓ/day	WEMMERSHOEK SUPPLY Typical Analysis MAX 250 Mℓ/day	BROOKLANDS SUPPLY Typical Analysis MAX 5.5 Mℓ/day	HELDERBERG SUPPLY Typical Analysis MAX 12 Mℓ/day	WITZANDS SUPPLY Typical Analysis MAX 15 Mℓ/day
PHYSICAL & AESTHETIC DETERMINANTS										
Colour mg/ℓ Pt-Co	≤15	5	5	5	5	7	6	6	5	9
Conductivity mS/m	≤170	8	11	14	12	14	4	56	15	24
Total Dissolved Solids mg/ℓ	≤1200	52	75	92	80	93	29	374	103	160
Turbidity NTU	Operational ≤1 / Aesthetic ≤5	0.7	0.5	0.5	0.5	1.0	0.8	0.5	0.7	0.9
pH	≥5 to ≤9.7	8.1	8.9	8.5	8.2	8.2	7.7	7.9	8.7	7.6
CHEMICAL – MACRO DETERMINANTS										
Nitrate as N mg/ℓ	≤11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
Nitrite as N mg/ℓ	≤0.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Combined nitrate plus nitrite	≤1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Sulphate as SO_4^{2-} mg/ℓ	Aesthetic ≤250 / Acute health ≤500	11	23	32	19	16	4	158	7	22
Fluoride as F^- mg/ℓ	≤1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ammonia as N mg/ℓ	≤1.5	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4	<0.4
Chloride as Cl^- mg/ℓ	≤300	10	11	15	17	20	7	62	28	34
Sodium as Na mg/ℓ	≤200	5	6	10	10	9	4	35	12	19
Zinc as Zn mg/ℓ	≤5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
CHEMICAL – MICRO DETERMINANTS										
Antimony as Sb µg/ℓ	≤20	<1	3	<1	<1	<1	<1	<1	<1	<1
Arsenic as As µg/ℓ	≤10	<1	<1	<1	<1	<1	<1	<1	<1	<1
Barium as Ba µg/ℓ	≤700	<50	<50	<50	<50	<50	<50	<50	<50	80
Boron as B mg/ℓ	≤2.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cadmium as Cd µg/ℓ	≤3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chromium (Total) as Cr µg/ℓ	≤50	<5	<5	<5	<5	<5	<5	<5	<5	<5
Copper as Cu µg/ℓ	≤2000	<10	10	10	<10	18	<10	<10	<10	16
Cyanide as CN^- µg/ℓ	≤200	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iron as Fe µg/ℓ	Chronic Health ≤2000 / Aesthetic ≤300	157	130	55	125	163	169	95	199	256
Lead as Pb µg/ℓ	≤10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese as Mn µg/ℓ	Chronic Health ≤400 / Aesthetic ≤100	6	5	8	9	5	11	14	5	21
Mercury as Hg µg/ℓ	≤6	–	–	–	–	–	–	–	–	–
Nickel as Ni µg/ℓ	≤70	<5	<5	<5	<5	<5	<5	<5	<5	<5
Selenium as Se µg/ℓ	≤40	<1	<1	<1	<1	<1	<1	<1	<1	<1
Uranium as U µg/ℓ	≤30	–	–	–	–	–	–	–	–	
Aluminium as Al µg/ℓ	≤300	162	79	195	155	142	190	127	120	84
CHEMICAL – ORGANIC DETERMINANTS										
Total Organic Carbon mg/ℓ	≤10	–	–	–	–	–	–	–	–	–
Phenols µg/ℓ	≤10	13	<10	<10	<10	<10	<10	<10	<10	<10
Chloroform µg/L	≤300	–	–	–	–	–	–	–	–	–
Bromoform µg/L	≤100	–	–	–	–	–	–	–	–	–
Dibromochloromethane µg/L	≤100	–	–	–	–	–	–	–	–	–
Bromodichloromethane µg/L	≤60	–	–	–	–	–	–	–	–	–
Combined Trihalomethane	≤1	–	–	–	–	–	–	–	–	–
MICROBIOLOGICAL DETERMINANTS										
E coli count/100mℓ	Not Detected	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heterotrophic Plate Count Count/mℓ	≤1000	24	4	3	4	8	4	2	4	73
Total coliforms Count/100mℓ	≤10	1	1	1	1	1	1	1	1	1
OTHER										
Hardness(Total) as $CaCO_3$ mg/ℓ	-	23	35	34	26	38	10	190	40	73
Alkalinity as $CaCO_3$ mg/ℓ	-	10	10	8	8	16	8	10	25	41
Calcium as Ca mg/ℓ	-	8	12	12	9	12	3	68	12	24
Potassium as K mg/ℓ	-	0.8	0.8	0.8	1.0	1.2	0.6	1.5	1.2	1.6
Magnesium as Mg mg/ℓ	-	0.8	0.9	0.8	1.1	2.1	0.4	4.6	2.0	3.4

KEY: ND = Not detected
- = No specification or no data

The water treatment plants supply water into an interconnected system of reservoirs and pipelines serving the municipal area.

LUNGELO MBANDAZAYO
CITY MANAGER

CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

Making progress possible. Together.