

CITY OF CAPE TOWN ANNUAL DRINKING WATER QUALITY REPORT. ANALYTICAL DATA AND APPROXIMATE DISTRIBUTION FOR CAPE TOWN DRINKING WATER. SAMPLE PERIOD: 1 JULY 2023 TO 30 JUNE 2024

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: 2015). 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 6-8,5c a litre compared to about R15 a litre for shop-bought bottled water. See the water quality results below provided across Cape Town for the July 2023 to June 2024 period.

PARAMETERS	SANS 241:2015 Specifications	BLACKHEATH SUPPLY MAX 430 Mℓ/day	FAURE SUPPLY MAX 500 Mℓ/day	KLOOF NEK SUPPLY MAX 22,5 Mℓ/day	STEENBRAS SUPPLY MAX 150 Mℓ/day	VOËLVLEI SUPPLY MAX 273 Mℓ/day	WEMMERSHOEK SUPPLY MAX 250 Mℓ/day	BROOKLANDS SUPPLY MAX 5,5 Mℓ/day	HELDERBERG SUPPLY MAX 12 Mℓ/day	WITZANDS SUPPLY MAX 15 Mℓ/day	CONSTANTIA NEK SUPPLY MAX 3 Mℓ/day
PHYSICAL & AESTHETIC DETERMINANDS											
Colour mg/ℓ Pt-Co	≤15	5	5	5	5	6	5	6	5	6	< 5
Conductivity mS/m	≤170	10	12	14	11	14	8	43	16	20	17
Total Dissolved Solids mg/ℓ	≤1200	64	83	96	76	95	51	287	111	131	116
Turbidity NTU	Operational ≤1 / Aesthetic ≤5	0.6	0.5	0.5	0.5	0.7	0.7	0.5	0.6	0.6	0.5
pH	≥5 to ≤9.7	8.3	8.3	8.3	8.3	8.0	7.7	8.1	8.9	7.7	8.3
CHEMICAL - MACRO DETERMINANDS											
Free Chlorine as Cl ₂ mg/ℓ	≤5	1.2	0.6	1.0	1.0	1.1	1.3	0.9	1.0	0.6	0.9
Nitrate as N mg/ℓ	≤11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
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	< 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	0.1
Sulphate as SO ₄ ²⁻ mg/ℓ	Aesthetic ≤250 / Acute health ≤500	13	25	32	17	16	12	87	7	19	44
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	0.2
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	< 0.4
Chloride as Cl ⁻ mg/ℓ	≤300	13	14	17	17	22	10	65	31	29	18
Sodium as Na mg/ℓ	≤200	6	6	12	10	10	5	44	15	15	14
Zinc as Zn mg/ℓ	≤5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
CHEMICAL - MICRO DETERMINANDS											
Antimony as Sb µg/ℓ	≤20	2	2	< 1	< 1	2	< 1	< 1	2	< 1	< 1
Arsenic as As µg/ℓ	≤10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Barium as Ba µg/ℓ	≤700	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	57	< 50
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	< 0.1
Cadmium as Cd µg/ℓ	≤3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Chromium (Total) as Cr µg/ℓ	≤50	< 5	< 5	< 5	< 5	< 5	< 5	< 5	7	< 5	< 5
Copper as Cu µg/ℓ	≤2000	< 10	11	12	11	57	< 10	< 10	< 10	13	10
Cyanide as CN ⁻ µg/ℓ	≤200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Iron as Fe µg/ℓ	Chronic Health ≤2000 / Aesthetic ≤300	79	81	72	91	97	97	88	117	111	< 50
Lead as Pb µg/ℓ	≤10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Manganese as Mn µg/ℓ	Chronic Health ≤400 / Aesthetic ≤100	6	6	10	8	7	12	11	7	10	8
Mercury as Hg µg/l	≤ 6	< 5	< 5	-	< 5	< 5	< 5	< 5	< 5	< 5	-
Nickel as Ni µg/ℓ	≤70	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Selenium as Se µg/ℓ	≤40	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1	< 1
Uranium as U µg/l	≤ 30	< 15	< 15	-	< 15	< 15	< 15	< 15	< 15	< 15	-
Aluminium as Al µg/ℓ	≤300	97	101	171	101	80	106	94	88	61	108
CHEMICAL - ORGANIC DETERMINANDS											
Total Organic Carbon mg/ℓ	≤10	1	1	1	2	2	1	2	2	2	2
Phenols µg/ℓ	≤10	12	< 10	< 10	< 10	< 10	< 10	< 10	< 10	12	< 10
Chloroform µg/L*	≤300	122	-	205	132	187	94	218	43	201	-
Bromoform µg/L*	≤100	12	-	12	4	10	2	3	16	8	-
Dibromochloromethane µg/L*	≤100	11	-	7	5	11	4	28	46	12	-
Bromodichloromethane µg/L*	≤60	26	-	25	19	38	18	63	43	40	-
Combined Trihalomethane*	≤1	1.1	-	1.3	1.1	1.5	0.7	2.1	1.5	1.5	-
MICROBIOLOGICAL DETERMINANDS											
E.coli count/100mℓ	Not Detected	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heterotrophic Plate Count Count/mℓ	≤1000	7	2	2	3	19	6	1	8	21	1
Total coliforms Count/100mℓ	≤10	3	1	1	1	1	4	1	1	5	1
OTHER											
Hardness (Total) as CaCO ₃ mg/ℓ	-	24	35	32	22	36	20	88	44	53	42
Alkalinity as CaCO ₃ mg/ℓ	-	11	10	8	8	17	8	10	26	29	9
Calcium as Ca mg/ℓ	-	8	12	11	7	11	6	28	13	16	15
Potassium as K mg/ℓ	-	0.7	0.7	0.6	0.6	1.0	0.5	1.2	1.2	1.2	0.3
Magnesium as Mg mg/ℓ	-	1.2	1.4	1.1	1.1	2.3	0.9	4.3	2.5	2.9	1.2

KEY: ND = Not detected
- = No specification or no data
* = Most recent data (October 2024)

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

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CITY MANAGER
CTA146/2024

