

CITY OF CAPE TOWN 2021/2022 ANNUAL DRINKING WATER QUALITY REPORT. ANALYTICAL DATA AND APPROXIMATE DISTRIBUTION FOR CAPE TOWN DRINKING WATER. Sample period: 1 July 2021 to 30 June 2022

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, see 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 July 2021 to June 2022 period.

PARAMETERS	SANS 241 : 2015 Specs	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	CONSTANTIA NEK SUPPLY Typical Analysis MAX 3 Mℓ/day	ALBION SPRINGS SUPPLY Typical Analysis MAX 2 Mℓ/day
PHYSICAL & AESTHETIC DETERMINANDS												
Colour mg/ℓ Pt-Co	≤15	5	5	6	5	6	7	7	5	7	6	<5
Conductivity mS/m	≤170	11	14	18	12	13	6	58	16	24	20	22
Total Dissolved Solids mg/ℓ	≤1200	72	92	119	83	90	37	386	107	163	132	144
Turbidity NTU	Operational ≤1 / Aesthetic ≤5	0.6	0.6	0.7	0.7	0.9	0.7	0.6	0.7	0.8	0.6	1
pH (pH units)	≥5 to ≤9.7	8.5	8.6	8.3	8.1	8.0	8.5	8.2	8.8	7.7	8.3	7
CHEMICAL - MACRO DETERMINANDS												
Free Chlorine as Cl ₂ mg/ℓ	≤5	1.1	1.1	0.9	1.1	0.9	1.0	1.0	0.9	0.8	0.9	0.3
Nitrate as N mg/ℓ	≤11	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	1.7
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	<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	0.2
Sulphate as SO ₄ ²⁻ mg/ℓ	Aesthetic ≤250 / Acute health ≤500	12	27	35	19	13	3	124	5	19	45	10.1
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	<0.1	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	<0.4	<0.4
Chloride as Cl ⁻ mg/ℓ	≤300	16	18	20	20	21	8	83	30	36	25	47.2
Sodium as Na mg/ℓ	≤200	12	10	15	15	11	5	43	16	28	18.5	23.6
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	<0.1
CHEMICAL - MICRO DETERMINANDS												
Antimony as Sb µg/ℓ	≤20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Arsenic as As µg/ℓ	≤10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Barium as Ba µg/ℓ	≤700	<50	<50	<50	<50	<50	<50	<50	<50	119	<50	<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	<0.1
Cadmium as Cd µg/ℓ	≤3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chromium (Total) as Cr µg/ℓ	≤50	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Copper as Cu µg/ℓ	≤2000	<20	<20	<20	<20	<20	<20	21	<20	<20	<20	<20
Cyanide as CN ⁻ µg/ℓ	≤200	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Iron as Fe µg/ℓ	Chronic Health ≤2000 / Aesthetic ≤300	119	110	140	78	91	150	131	113	135	173	84
Lead as Pb µg/ℓ	≤10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Manganese as Mn µg/ℓ	Chronic Health ≤400 / Aesthetic ≤100	<20	<20	<20	<20	<20	27	22	<20	<20	<20	<20
Mercury as Hg µg/ℓ	≤6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel as Ni µg/ℓ	≤70	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Selenium as Se µg/ℓ	≤40	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Uranium as U µg/ℓ	≤30	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15	<15
Aluminium as Al µg/ℓ	≤300	111	60	151	118	54	115	71	68	72	118	52
CHEMICAL - ORGANIC DETERMINANDS												
Total Organic Carbon mg/ℓ	≤10	2	2	2	2	2	1	3	1	2	1	0
Phenols µg/ℓ	≤10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MICROBIOLOGICAL DETERMINANDS												
<i>E coli</i> count/100mℓ	Not Detected	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heterotrophic Plate Count Count/mℓ	≤1000	1	5	25	10	22	1	73	26	3	31	139
Total coliforms Count/100mℓ	≤10	ND	ND	ND	ND	ND	ND	3	4	5	6	20
OTHER												
Hardness(Total) as CaCO ₃ mg/ℓ	-	30	41	42	22	35	14	146	42	79	35	40
Alkalinity as CaCO ₃ mg/ℓ	-	14	11	17	8	17	12	15	27	43	8	16
Calcium as Ca mg/ℓ	-	8	13	16	6	10	4	49	12	28	14	7
Potassium as K mg/ℓ	-	1.0	0.8	0.3	0.5	0.9	0.3	1.3	1.2	1.4	<1	1
Magnesium as Mg mg/ℓ	-	2.3	2.1	1.3	1.6	2.6	0.9	5.6	2.9	4.2	<1	5

KEY: ND = not detected
- = no specification

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

* Anomalous results excluded.

Chemical and microbiological determinands not analysed during the period 1 July 2021 to 30 June 2022:
Trihalomethane (CHCl₃, CHBr₃, CHBr₂Cl, CHBrCl₂)
Protozoan parasites (*Cryptosporidium* and *Giardia* species)