

Typical Water Quality Analysis (2020-21)

Compared with the Australian Drinking Water Guidelines (ADWG)

Measure		ADWG Guidelines		Water Treatment Plant		
Parameter	Units	Health	Aesthetic	Bray Park	Uki	Tyalgum
Physical Characteristics *						
- True Colour	HU	NA	15	0.06	0.22	1.58
- Turbidity	NTU	NA	5	0.34	0.44	0.34
- Hardness	mg CaCO ₃ /L	NA	200	54	32	42
- Alkalinity	mg CaCO ₃ /L	NA	NA	61	38	52
- Total Dissolved Solids	mg/L	NA	600	116	89	87
- pH	pH units	NA	6.5 – 8.5	7.4	7.6	7.5
Disinfectants **						
- Free Chlorine	mg/L	5	NA	0.71	0.84	1.2
Disinfection By-products**						
- Trihalomethanes	mg/L	0.25	NA	0.074	0.066	0.057
Chemical Characteristics**						
- Aluminium	mg/L	NA	0.2	0.03	0.087	0.025
- Antimony	mg/L	0.003	NA	<0.001	<0.001	<0.001
- Arsenic	mg/L	0.01	NA	<0.001	<0.001	<0.001
- Cadmium	mg/L	0.002	NA	<0.001	<0.001	<0.001
- Calcium	mg/L	NA	NA	17	9	8
- Chloride	mg/L	NA	250	22	22	13
- Chromium IV	mg/L	0.05	NA	<0.001	<0.001	<0.001
- Copper	mg/L	2	1	0.02	0.004	0.05
- Fluoride	mg/L	1.5	NA	0.9	0.1	0.08
- Iron	mg/L	NA	0.3	0.006	0.03	0.002
- Magnesium	mg/L	NA	NA	4.56	3.25	4.6
- Manganese	mg/L	0.5	0.1	0.008	0.009	0
- Nickel	mg/L	0.02	NA	0	0	0
- Lead	mg/L	0.01	NA	0.001	0	0.001
- Sodium	mg/L	NA	180	16	16	12
- Sulfate	mg/L	500	250	2.8	3	1.5
- Zinc	mg/L	NA	3	0.01	0.003	0.009

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Microbiological**						
- Total Coliforms	cfu/100mL	na	na	<1	<1	<1
- E. coli	cfu/100mL	0	na	0	0	0

– NA - no published guideline
– ADWG refers to the 2011 Australian Drinking Water Guidelines
– ADWG Health refers to a health related guideline value which does not result in any significant risk to the health of the customer over a lifetime of consumption.
– ADWG Aesthetic refers to an aesthetic guideline value that is associated with acceptability of water to the consumer in regard to appearance, taste and odour.
– * Mean based on 2020/2021 year WTP weekly sampling.
– ** Mean based on the 2020/2021 year reticulation routine sampling.