

Melbourne Water Quality Analysis - Table 1

Water Filtration Plant - Minimum & Maximum

	Unit	City West Water			South East Water			Yarra Valley Water		
		Min	Max	Average	Min	Max	Average	Min	Max	Average
Physical Characteristics										
True Colour	TCU or HU	<2	18	4						
Turbidity	NTU	<0.2	4.4	0.65						
Total Dissolved Solids	mg/L	36	100	74						
pH	pH units	6.6	9.5	7.3						
Conductivity	mS/m	53	170	109						
Total Hardness	mg CaCO ₃ /L	15	40	27						
Calcium Hardness	mg CaCO ₃ /L									
Magnesium Hardness	mg CaCO ₃ /L									
Alkalinity	mg CaCO ₃ /L	12	24	15						
Temperature	°C	10	17	22						
Dissolved Oxygen	% Saturation	7.4	10.9	9.5						
Disinfectants										
Free Chlorine	mg/L	0.01	1.1	0.11						
Monochloramine	mg/L									
Disinfectant By-products										
Trihalomethanes	mg/L	0.002	0.103	0.047						
Inorganic Chemicals										
Aluminium	mg/L	<0.01	0.11	0.02						
Ammonia	mg/L									
Arsenic	mg/L	<0.001	<0.001	<0.001						
Cadmium	mg/L	<0.002	<0.002	<0.002						
Calcium	mg/L	3.6	14	7.7						
Chloride	mg/L	7.0	20.0	16.0						
Chromium	mg/L	<0.01	<0.01	<0.01						
Copper	mg/L	<0.01	0.080	0.026						
Cyanide	mg/L	<0.005	<0.005	<0.005						
Fluoride	mg/L	0.25	1.10	0.91						
Iron	mg/L	<0.02	0.18	0.05						
Lead	mg/L	<0.01	<0.01	<0.01						
Magnesium	mg/L	1.1	2.4	1.8						
Manganese	mg/L	<0.001	0.010	0.003						
Mercury	mg/L	<0.001	<0.001	<0.001						
Nitrate	mg/L	0.43	1.73	1.38						
Nitrite	mg/L									
Phosphorous	mg/L	<0.005	0.011	0.006						
Potassium	mg/L	0.8	1.8	1.5						
Silica	mg/L	2.9	6.9	4.2						
Selenium	mg/L									
Silver	mg/L									
Sodium	mg/L	4.9	12.0	9.8						
Sulfate	mg/L	2.2	18.0	12.2						
Zinc	mg/L	<0.01	0.02	<0.01						
Microbiological										
E.coli	orgs/100ml	<1	<1	<1						
nd = not detected (below detection limits)										