

Our Drinking Water Quality

The quality of our drinking water is regulated by the Environmental Public Health (EPH) (Quality of Piped Drinking Water) Regulations 2008 (Updated 1 Nov 2010). The drinking water standards set out under the EPH Regulations were based on the WHO Guidelines for Drinking-water Quality. PUB will make continuous effort to maintain drinking water quality at the highest possible level.

Singapore Drinking Water Quality (July 2017 - June 2018)

Source : PUB's Water Quality Department

Characteristics	Unit	WHO 2017 GV (First Addendum to 4th Edition)	Environmental Public Health (Quality of Piped Drinking Water) Regulations 2008. (updated 1 Nov 2010)	Average	Range	Compliance
Microbiological Parameter						
<i>Escherichia coli</i> (<i>E. coli</i>)	cfu/100ml	<1	<1	<1	<1	✓
Physical Parameters						
Colour	Hazen	-	15	<5	<5	✓
Conductivity	uS/cm	-	-	229	89-435	-
Odour	TON	-	-	Unobjectionable	Unobjectionable	-
pH Value	Units	-	6.5-9.5	8.1	7.8-8.3	✓
Total Dissolved Solid	mg/L	-	-	136	74-269	-
Turbidity	NTU	5	5	0.14	0.05-0.46	✓
Radiological Parameters						
Gross Alpha	Bq/L	0.5 ^{Note (1)}	0.5	0.033	<0.017-0.094	✓
Gross Beta	Bq/L	1 ^{Note (1)}	1	0.175	<0.021-0.350	✓
Radon 222	Bq/L	-	100	<0.6	<0.6	✓
Chemical Parameters						
Acrylamide	ug/L	0.5	0.5	<0.2	<0.2	✓
Alachlor	ug/L	20	20	<1	<1	✓
Aldicarb Sulfoxide and Aldicarb Sulfone	ug/L	10	10	<0.1	<0.1	✓
Aldrin and Dieldrin	ug/L	0.03	0.03	<0.02	<0.02	✓
Antimony	ug/L	20	20	<1	<1-1	✓
Arsenic	ug/L	10	10	<0.5	<0.5	✓
Atrazine and its chloro-s-triazine metabolites	ug/L	100	-	<2.5	<2.5	✓
Atrazine	ug/L	-	2	<0.5	<0.5	✓
Aluminium	mg/L	-	0.1, 0.2 ^{Note (2)}	0.023	<0.019 - 0.109	✓
Barium	mg/L	1.3	0.7	0.025	<0.004 - 0.053	✓
Benzene	ug/L	10	10	<1	<1	✓
Benzo[a]pyrene	ug/L	0.7	0.7	<0.07	<0.07	✓
Boron	mg/L	2.4	2.4	0.016	<0.004 - 0.043	✓
Bromate	mg/L	0.01	0.01	0.00327	<0.002-0.010	✓

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Bromodichloromethane	ug/L	60	60	9.76	<5 -23	✓
Bromoform	ug/L	100	100	<5	<5	✓
Cadmium	ug/L	3	3	<0.2	<0.2	✓
Carbofuran	ug/L	7	7	<0.05	<0.05	✓
Carbon Tetrachloride	ug/L	4	4	<0.4	<0.4	✓
Chlorate	mg/L	0.7	0.7	0.215	<0.043 - 0.560	✓
Chlordane (total isomers)	ug/L	0.2	0.2	<0.02	<0.02	✓
Chlorine ^{Note(3)}	mg/L	5	5	2.39	1.70 - 2.80	✓
Chlorite	mg/L	0.7	0.7	<0.015	<0.015	✓
Chloroform	ug/L	300	300	24	<5-60	✓
Chlorotoluron	ug/L	30	30	<0.05	<0.05	✓
Chlorpyrifos	ug/L	30	30	<0.1	<0.1	✓
Chromium	mg/L	0.05	0.05	<0.005	<0.005	✓
Copper	mg/L	2	2	<0.002	<0.002-0.004	✓
Cyanazine	ug/L	0.6	0.6	<0.2	<0.2	✓
Cyanide	mg/L	-	0.07	<0.03	<0.03	✓
Cyanogen chloride (as cyanide)	ug/L	-	70	<50	<50	✓
Chloride	mg/L	-	-	21	5 - 68	-
2,4-D (2,4-dichlorophenoxyacetic acid) in free acid form	ug/L	30	30	<0.05	<0.05	✓
2,4-DB [4-(2,4-Dichlorophenoxy) butyric acid]	ug/L	90	90	<0.05	<0.05	✓
DDT and metabolites	ug/L	1	1	<0.01	<0.01	✓
Di(2-Ethylhexyl) phthalate	ug/L	8	8	<1	<1	✓
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L	1	1	<0.1	<0.1	✓
Dibromoacetonitrile	ug/L	70	70	<7	<7	✓
Dibromochloromethane	ug/L	100	100	<5	<5 - 13	✓
Dibromoethane (Ethylene Dibromide) 1,2-	ug/L	0.4	0.4	<0.05	<0.05	✓
Dichloroacetate	ug/L	50	50	15	<5 - 41	✓
Dichloroacetonitrile	ug/L	20	20	<1	<1 - 3.3	✓
Dichlorobenzene, 1,2-	ug/L	1000	1000	<1	<1	✓
Dichlorobenzene, 1,4-	ug/L	300	300	<1	<1	✓
Dichloroethane, 1,2-	ug/L	30	30	<2	<2	✓
Dichloroethene (cis & trans), 1,2-	ug/L	50	50	<5	<5	✓
Dichloromethane	ug/L	20	20	<3	<3	✓
Dichloropropane, 1,2-	ug/L	40	40	<1	<1	✓
Dichloropropene, 1,3-	ug/L	20	20	<2	<2	✓
Dichlorprop	ug/L	100	100	<0.05	<0.05	✓
Dimethoate	ug/L	6	6	<0.1	<0.1	✓
Dioxane, 1,4	ug/L	50	50	<1	<1	✓
Endrin	ug/L	0.6	0.6	<0.01	<0.01	✓
Epichlorohydrin	ug/L	0.4	0.4	<0.1	<0.1	✓
Ethylbenzene	ug/L	300	300	<1	<1	✓
Edetic acid (EDTA-Ethylene Diamine Tetraacetic Acid) in free acid form	ug/L	600	600	<1	<1	✓
Fenoprop (2,4,5-TP; 2,4,5-trichlorophenoxy propionic acid)	ug/L	9	9	<0.05	<0.05	✓
Fluoride	mg/L	1.5	0.7	0.47	0.37-0.60	✓
Hexachlorobutadiene	ug/L	0.6	0.6	<0.01	<0.01	✓
Isoproturon	ug/L	9	9	<0.05	<0.05	✓
Iron	mg/L	-	-	0.032	<0.003 - 0.032	-
Lead	ug/L	10	10	<0.5	<0.5-2	✓
Lindane	ug/L	2	2	<0.01	<0.01	✓
MCPA (4-Chloro-2-methylphenoxyacetic acid)	ug/L	-	2	<0.05	<0.05	✓
Mecoprop (MCPP; [2(2-methyl-chlorophenoxy) propionic acid])	ug/L	10	10	<0.05	<0.05	✓
Mercury, in inorganic form	ug/L	6	6	<0.03	<0.03	✓
Methoxychlor	ug/L	20	20	<0.01	<0.01	✓
Metolachlor	ug/L	10	10	<1	<1	✓
Microcystin-LR	ug/L	1	1	<0.1	<0.1	✓

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Molinate	ug/L	6	6	<0.6	<0.6	✓
Monochloramine ^{Note(4)}	mg/L	3	3	2.4	1.80-2.70	✓
Monochloroacetic acid (chloroacetic acid)	ug/L	20	20	<10	<10	✓
Manganese	mg/L	-	0.4	0.005	<0.002 - 0.021	✓
Molybdenum	mg/L	-	0.07	<0.004	<0.004 - 0.004	✓
Nickel	mg/L	0.07	0.07	<0.003	<0.003	✓
Nitrate (as N)	mg/L	11	11	0.36	<0.01 - 1.11	✓
Nitrotriacetic acid (NTA)	ug/L	200	200	<1	<1	✓
Nitrite (as N)	mg/L	0.9	0.9	<0.01	<0.01 - 0.03	✓
Nitrate plus nitrite combined	units	1	1	0.033	<0.011 - 0.101	✓
Nitrosodimethylamine (NDMA)	ng/L	100	-	<2	<2 - 8.1	✓
Pendimethalin	ug/L	20	20	<1	<1	✓
Pentachlorophenol	ug/L	9	9	<0.5	<0.5	✓
Perchlorate	ug/L	70	-	<2	<2	✓
Permethrin, where used as a larvicide for public health purposes	ug/L	-	300	<2	<2	✓
Pyriproxyfen	ug/L	-	300	<0.05	<0.05	✓
Selenium	ug/L	40	10	<0.5	<0.5	✓
Simazine	ug/L	2	2	<0.2	<0.2	✓
Styrene	ug/L	20	20	<2	<2	✓
Sulphate	mg/L	-	-	42	11-171	-
Silica (as SiO ₂)	mg/L	-	-	3.44	0.46-8.20	-
Terbutylazine (TBA)	ug/L	7	7	<0.7	<0.7	✓
Tetrachloroethene	ug/L	40	40	<1	<1	✓
Toluene	ug/L	700	700	<5	<5	✓
Trichloroethene	ug/L	20	20	<1	<1	✓
Trichlorophenol 2,4,6-	ug/L	200	200	<1	<1	✓
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ug/L	9	9	<0.05	<0.05	✓
Trichloroacetate	ug/L	200	200	9.7	<5 - 27	✓
Trifluralin	ug/L	20	20	<1	<1	✓
Total Trihalomethanes Ratio	units	<1	<1	0.28	<0.2 - 0.66	✓
Total Organic Carbon (TOC)	mg/L	-	-	1.3	0.6 - 2.3	-
Total Alkalinity (as CaCO ₃)	mg/L	-	-	19	6 - 40	-
Total Hardness (as CaCO ₃)	mg/L	-	-	67	27 - 221	-
Total Phosphorous (as P)	mg/L	-	-	0.011	<0.003 - 0.038	-
Uranium	ug/L	30	15	0.014	0.003 - 0.079	✓
Vinyl Chloride	ug/L	0.3	0.3	<0.1	<0.1	✓
Xylenes	ug/L	500	500	<15	<15	✓

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Note (1) These are WHO screening values and not guideline values.

Note (2) Code of Practice on Piped Drinking Water Sampling and Safety Plans :-

Aluminium controlled at 0.1mg/L or less in large water treatment facilities that serve 10,000 or more people (Applicable to all Singapore and Johor Waterworks except Pulau Tekong Waterworks).

Aluminium controlled at 0.2mg/L or less in small facilities that serve less than 10,000 people (Applicable only to Pulau Tekong Waterworks).

Note (3) Chlorine data included all waterworks.

Note (4) Monochloramine data included all waterworks except Pulau Tekong Waterworks. No monochloramine was used in Pulau Tekong Waterworks as a secondary disinfectant.