

**Dongjiang Water Quality for the Period of April 2020 - March 2021
as received in Hong Kong at Muk Wu Raw Water Pumping Station**

Points to Note:

- Since 2003, the Dongjiang (DJ) water has been delivered via the Dongshen dedicated aqueduct from DJ at Taiyuan to the Shenzhen Reservoir and then to Hong Kong for ensuring the DJ water quality.
- Under the current DJ water supply agreement, the Guangdong authorities are dedicated to maintaining the quality of the DJ water supplied to Hong Kong to meet the national standard for Type II waters (applicable to the abstraction for human consumption in first class protection area) in the "Environmental Quality Standards for Surface Water (GB3838-2002)" specified in the DJ water supply agreement.
- The quality of the DJ water supplied to Hong Kong for this period complied with the standard for Type II waters in GB3838-2002.
- According to the international practice, compliance of the quality of the DJ water supplied to Hong Kong is based on the benchmarking of the annual average of the monitoring data against the standard values for Type II waters in GB3838-2002 although there may be occasional deviations of certain water quality parameters from the standard values.
- All water samples for monitoring the quality of the DJ water supplied to Hong Kong were taken at the Muk Wu Raw Water Pumping Station.

Parameters	Unit	Monitoring Data (4/2020 - 3/2021)			GB3838-2002 Type II Standard Value	Compliance (Please see general points above)
		Minimum	Maximum	Average		
pH	pH	7.3	8.5	7.8	6 - 9	✓
Dissolved Oxygen	mg/L	6.1	11.0	8.0	≥ 6	✓
Permanganate Index	mg/L	< 1	2	1	≤ 4	✓
Chemical Oxygen Demand (COD)	mg/L	< 5	23	7	≤ 15	✓
5-Day Biochemical Oxygen Demand (BOD ₅)	mg/L	< 2.0	< 2.0	< 2.0	≤ 3	✓
Ammoniacal Nitrogen	mg/L	< 0.02	0.08	0.03	≤ 0.5	✓
Total Phosphorus (as P)	mg/L	0.005	0.067	0.026	≤ 0.1	✓
Copper	mg/L	< 0.003	0.045	0.005	≤ 1	✓
Zinc	mg/L	< 0.01	< 0.01	< 0.01	≤ 1	✓
Fluoride (as F ⁻)	mg/L	0.16	0.30	0.25	≤ 1	✓
Selenium	mg/L	< 0.003	< 0.003	< 0.003	≤ 0.01	✓
Arsenic	mg/L	< 0.001	0.002	0.001	≤ 0.05	✓
Mercury	mg/L	< 0.00005	< 0.00005	< 0.00005	≤ 0.00005	✓
Cadmium	mg/L	< 0.001	< 0.001	< 0.001	≤ 0.005	✓
Chromium (VI)	mg/L	< 0.001 (Note 1)	< 0.001 (Note 1)	< 0.001 (Note 1)	≤ 0.05	✓
Lead	mg/L	< 0.001	< 0.001	< 0.001	≤ 0.01	✓
Cyanide	mg/L	< 0.01	< 0.01	< 0.01	≤ 0.05	✓
Volatile Phenols	mg/L	< 0.001	< 0.001	< 0.001	≤ 0.002	✓
Petroleum Hydrocarbons	mg/L	< 0.013	< 0.013	< 0.013	≤ 0.05	✓

Parameters	Unit	Monitoring Data (4/2020 - 3/2021)			GB3838-2002 Type II Standard Value	Compliance (Please see general points above)
		Minimum	Maximum	Average		
Anionic Surfactants	mg/L	< 0.1	< 0.1	< 0.1	≤ 0.2	✓
Sulphides	mg/L	< 0.05	< 0.05	< 0.05	≤ 0.1	✓
Faecal Coliforms	no./L	0 (Note 2)	500 (Note 2)	40 (Note 2)	≤ 2,000	✓
Sulphate (as SO ₄ ²⁻)	mg/L	11	21	14	≤ 250	✓
Chloride (as Cl ⁻)	mg/L	7	12	10	≤ 250	✓
Nitrate (as N)	mg/L	1.0	2.0	1.4	≤ 10	✓
Iron	mg/L	0.01	0.16	0.04	≤ 0.3	✓
Manganese	mg/L	< 0.01	0.10	0.02	≤ 0.1	✓
Benzo[a]pyrene	mg/L	< 2.0 x 10 ⁻⁶	< 2.0 x 10 ⁻⁶	< 2.0 x 10 ⁻⁶	≤ 2.8 x 10 ⁻⁶	✓

Notes:

- (1) Analytical results for chromium(III) and chromium(VI).
- (2) Analytical result for *E. coli*.