

Water Quality Test Result of Drinking Water Fountain

Building	Location	Sampling Date	Results							
			Cold water					Hot water		
			Turbidity (NTU)	pH value	Traceable Metal of Lead (µg/L)	Coliform bacteria (mpn/100ml)	E.coli count (mpn/100ml)	Turbidity (NTU)	pH value	Traceable Metal of Lead (µg/L)
S1	1018	12/06/2023	0.08	7.54	0.110	0	0	0.07	7.51	1.916
	2018		0.08	7.45	0.099	0	0	0.08	7.66	0.173
	3018		0.08	7.49	0.106	0	0	0.08	7.49	0.321
	4018		0.09	7.63	0.186	0	0	0.14	7.72	0.267
	5018		0.10	7.63	0.216	0	0	0.08	7.87	0.311
	6018		0.10	7.62	0.134	0	0	0.11	7.69	0.243
	7018		0.10	7.55	0.283	0	0	0.07	7.68	0.556
	8018		0.07	7.57	0.164	0	0	0.06	7.71	0.231
S2	1001	12/06/2023	0.12	7.56	0.220	0	0	0.10	7.66	0.229
	2001		0.08	7.55	0.074	0	0	0.12	7.64	0.288
	3001		0.25	7.48	0.174	0	0	0.13	7.70	0.226
	4001		0.15	7.42	0.257	0	0	0.07	7.70	0.184
	5001		0.10	7.42	0.139	0	0	0.07	7.66	0.260
	6001		0.11	7.44	0.176	0	0	0.20	7.56	0.571
	7001		0.09	7.44	0.265	0	0	0.06	7.71	0.272
	8001		0.14	7.45	0.187	0	0	0.07	7.73	0.245
	9001		0.09	7.52	0.230	0	0	0.07	7.74	0.269
S4	1001	19/06/2023	0.08	7.27	0.181	0	0	0.12	7.54	0.970
	2001		0.05	7.55	< 0.07	0	0	0.07	7.56	0.141
	3001		0.07	7.48	0.275	0	0	0.14	7.60	0.328
	4001		0.07	7.47	0.196	0	0	0.09	7.50	0.186
	5001		0.08	7.54	0.185	0	0	0.18	7.55	0.198
	6001		0.09	7.32	0.269	0	0	0.07	7.73	0.353
	7001		0.10	7.52	0.166	0	0	0.08	7.60	0.207
	8001		0.11	7.51	0.167	0	0	0.15	7.88	0.255
	9001		0.10	7.33	0.341	0	0	0.06	7.66	0.216
	10001		0.13	7.38	0.161	0	0	0.09	7.70	0.301

Reference standard: Instruções sobre escolha e instalação de dispensadores de água por ligação directa, Environmental Protection Bureau, Government of Macao, S.A.R.

Turbidity: ≤ 0.5NTU; pH value: 6.00 - 8.50; Traceable Metal of Lead: ≤ 0.01mg/L (10µg/L); Coliform bacteria: Not detected; E.coli count: Not detected

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			Turbidity (NTU)	pH value	Traceable Metal of Lead (µg/L)	Coliform bacteria (mpn/100ml)	E.coli count (mpn/100ml)	Turbidity (NTU)	pH value	Traceable Metal of Lead (µg/L)
S3	C1-1040	26/06/2023	0.08	7.45	0.346	0	0	0.10	7.30	0.179
	C1-2040		0.08	7.51	0.434	0	0	0.11	7.32	0.160
	C1-3040		0.09	7.56	0.082	0	0	0.09	7.43	< 0.07
	C1-4040		0.09	7.58	0.132	0	0	0.15	7.44	< 0.07
	C1-5040		0.12	7.55	0.370	0	0	0.14	7.18	0.179
	C1-6040		0.09	7.54	0.165	0	0	0.09	7.29	< 0.07
	C1-7040		0.06	7.86	0.260	0	0	0.10	7.35	0.181
	C1-8040		0.10	7.72	0.155	0	0	0.10	7.39	0.083
	C1-9012		0.06	7.63	0.142	0	0	0.10	7.37	0.109
	C2-1009		0.09	7.79	0.206	0	0	0.17	7.31	0.231
	C2-2009		0.08	7.64	0.184	0	0	0.08	7.33	0.147
	C2-3009		0.08	7.64	0.079	0	0	0.13	7.33	0.204
	C2-4009		0.08	7.67	0.198	0	0	0.12	7.28	0.075
	C2-5009		0.08	7.63	0.477	0	0	0.12	7.36	0.324
	C2-6009		0.07	7.62	0.083	0	0	0.12	7.37	0.108
	C2-7009		0.08	7.74	0.172	0	0	0.07	7.37	< 0.07
	C2-8009		0.07	7.65	0.174	0	0	0.07	7.38	0.076
	C3-1052		0.06	7.68	0.112	0	0	0.10	7.42	0.081
	C3-2060		0.07	7.62	0.131	0	0	0.10	7.36	< 0.07
	C3-3060		0.05	7.71	0.120	0	0	0.09	7.48	< 0.07
	C3-4060		0.07	7.67	0.134	0	0	0.12	7.41	0.075
	C3-5060		0.08	7.54	0.203	0	0	0.18	7.24	0.116
	C3-6060		0.06	7.58	0.276	0	0	0.13	7.44	0.172
	C3-7060		0.16	7.87	0.304	0	0	0.19	7.38	0.152
C3-8060	0.11	7.51	0.195	0	0	0.10	7.21	0.117		

Reference standard: Instruções sobre escolha e instalação de dispensadores de água por ligação directa, Environmental Protection Bureau, Government of Macao, S.A.R.

Turbidity: ≤ 0.5NTU; pH value: 6.00 - 8.50; Traceable Metal of Lead: ≤ 0.01mg/L (10µg/L); Coliform bacteria: Not detected; E.coli count: Not detected

Water Quality Test Result of Ice

Location	Sampling Date	Results		
		Aerobic colony count (cfu/ml)	Coliform bacteria (cfu/100ml)	<i>E.coli</i> count (cfu/100ml)
Café Rose Garden (Loose ice)	06/06/2023	2	Not detected	Not detected
		3	Not detected	Not detected

Microbiological Guidelines for Ready-to-eat Food, Department of Food Safety, Municipal Affairs Bureau, Government of Macao S.A.R.

Packaged ice: Aerobic colony count: <500 cfu/ml; Coliform bacteria: Not detected in 100ml; E.coli count: Not detected in 100ml

Loose ice: Aerobic colony count: <1,000 cfu/ml; Coliform bacteria: <100 cfu/100ml; E.coli count: Not detected in 100ml

Water Quality Test Result of Swimming Pool

Building	N8
Location	Swimming pool
Sampling Date	06/06/2023
pH	8.26
Turbidity (NTU)	0.11
Ammonia nitrogen (mg/L)	0.02
Chlorine (mg/L)	1.23
Ozone (mg/L)	0.03
Total coliform count (mpn/100ml)	<1
E.coli count (mpn/100ml)	<1
Total bacterial count (cfu/ml)	<1

Reference standard: Serviços de Saúde guideline

Chlorine: 0.5 - 2.0 mg/L; pH: 6.5-8.5; Turbidity: ≤ 1 NTU; Ammonia nitrogen: < 0.5 ; Ozone: < 0.1 mg/L O_3 ; Total bacterial count: < 200 cfu/ml;

Total coliform count: < 20 mpn/100ml; Escherichia coli count: < 1 mpn/100ml

Water Quality Test Result of Artificial Lake

Location	Sampling Date	Results								
		Chemical Oxygen Demand (mg/L)	Ammonia Nitrogen (mg/L)	Total Phosphorus (mg/L)	Total Nitrogen (mg/L)	Dissolved Oxygen (mg/L)	pH	Coliform count (mpn/100mL)	E.coli count (mpn/100mL)	Fecal Coliform Count (mpn/100mL)
		1. 靜止湖水	11	0.10	< 0.02	0.7	9.51	8.78	17890	35.9
2. 湖中心	13	0.11	0.03	0.2	8.71	9.26	11370	27.5	387.3	
3. 死角位置	4	0.12	< 0.02	0.7	9.20	8.93	8820	42.0	218.7	
4. 親水護岸區	8	0.14	0.09	0.4	9.05	9.27	6570	73.8	435.2	
5. 死角位置	9	0.18	0.13	0.7	9.01	9.38	46110	24.9	118.7	
6. 湖中心	15	0.12	< 0.02	0.6	9.92	8.78	6090	40.8	172.2	
7. 死角位置	10	0.13	0.12	0.1	9.56	8.84	10950	86.0	579.4	
8. 排洪閘	10	0.16	0.18	0.1	8.15	9.05	241960	1986.3	8160.0	
9. 雨水排入處	9	0.15	0.08	3.0	9.36	9.57	14830	28.8	461.1	
10. 雨水排入處	12	0.14	0.05	0.7	9.48	9.85	51720	63.7	770.1	
11. 雨水排入處	47	0.13	0.26	1.7	9.56	9.26	77010	248.1	1690.0	
12. 雨水排入處	12	0.17	0.09	2.6	9.63	9.34	29870	71.2	1553.1	
13. 不流通點	3	0.10	0.07	0.1	8.29	9.46	111990	1986.3	6930.0	
14. 不流通點	7	0.07	0.02	1.5	10.27	9.28	54930	33.1	1299.7	
15. 過濾池	3	0.07	0.15	2.8	9.23	8.69	488.4	2.0	7.5	
平均值	12	0.13	0.11	1.1	9.26	9.18	N/A	N/A	N/A	

Environmental quality standard for surface water

Chemical oxygen demand: $\leq 40\text{mg/L}$; Ammonia nitrogen: $\leq 2.0\text{mg/L}$; Total phosphorus: $\leq 0.4\text{mg/L}$; Total nitrogen: $\leq 2.0\text{mg/L}$; Dissolved oxygen: $\geq 2\text{mg/L}$; pH: 6-9 Coliform count and E. coli count: no quality standard; values are for reference only.

