

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)
W14	G035	13/03/2023	0.06	7.78	< 0.07	0	0	0.08	7.69	0.138
	1021		0.08	7.84	0.137	0	0	0.07	7.77	0.113
	1038		0.07	7.88	0.074	0	0	0.07	7.80	< 0.07
	2023		0.07	7.89	< 0.07	0	0	0.07	7.80	0.083
	2041		0.08	7.89	< 0.07	0	0	0.07	7.74	< 0.07
	3023		0.09	7.91	0.256	0	0	0.06	7.77	< 0.07
	3041		0.07	7.92	0.082	0	0	0.09	7.81	0.138
	4023		0.11	7.94	< 0.07	0	0	0.07	7.82	0.118
	4041		0.07	7.94	< 0.07	0	0	0.07	7.81	0.115
	5023		0.06	7.73	0.419	0	0	0.06	7.75	0.080
	5036		0.09	7.84	0.139	0	0	0.13	7.89	0.237
	6018		0.08	7.83	0.166	0	0	0.13	7.90	0.207
	6032		0.06	7.68	0.141	0	0	0.06	7.81	0.202
	7003		0.09	7.52	0.215	0	0	0.07	7.82	0.183
	W23		G009	20/03/2023	0.07	7.60	0.205	0	0	0.10
1031		0.08	7.71		0.092	0	0	0.11	7.60	0.174
1052		0.23	7.72		0.185	0	0	0.29	7.74	0.184
2031		0.14	7.64		0.155	0	0	0.08	7.75	0.105
2056		0.08	7.70		0.072	0	0	0.09	7.75	0.103
3031		0.06	7.67		0.100	0	0	0.08	7.72	0.188
3056		0.09	7.70		0.115	0	0	0.12	7.71	0.226
4031		0.09	7.58		0.104	0	0	0.07	7.76	0.099
4056		0.10	7.78		0.111	0	0	0.10	7.76	0.316
W31	G043	27/03/2023	0.15	7.19	0.076	0	0	0.08	7.59	0.087
	G053		0.07	7.27	0.072	0	0	0.05	7.57	0.095
	1019		0.07	7.55	< 0.07	0	0	0.06	7.62	< 0.07
	1063		0.09	7.65	0.084	0	0	0.13	7.64	< 0.07
	2019		0.08	7.63	0.112	0	0	0.08	7.65	< 0.07
	2063		0.07	7.64	0.121	0	0	0.08	7.68	0.194
	3019		0.07	7.68	< 0.07	0	0	0.07	7.70	0.121
	3063		0.08	7.72	< 0.07	0	0	0.12	7.70	0.106
	4019		0.10	7.68	< 0.07	0	0	0.19	7.70	0.079
	4063		0.08	7.70	< 0.07	0	0	0.07	7.70	< 0.07
	5019		0.07	7.55	0.092	0	0	0.12	7.59	0.180
	5063		0.06	7.67	< 0.07	0	0	0.23	7.63	0.087
	6019		0.07	7.68	0.491	0	0	0.08	7.64	< 0.07
	6063		0.08	7.65	0.112	0	0	0.22	7.60	0.093
	7019		0.06	7.57	< 0.07	0	0	0.17	7.57	0.884

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 Swimming Pool

Building	N8
Location	Swimming pool
Sampling Date	07/03/2023
pH	8.32
Turbidity (NTU)	0.12
Ammonia nitrogen (mg/L)	0.01
Chlorine (mg/L)	1.64
Ozone (mg/L)	0.02
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 ; Ammonia nitrogen: < 0.5;

Ozone: < 0.1 mg/L O₃; Total bacterial count: < 200 cfu/ml;

Total coliform count: < 20 mpn/100ml;

Water Quality Test Result of Artificial Lake

Location	Sampling Date	Results								
		Chemical Oxygen	Ammonia	Total Phosphorus	Total Nitrogen	Dissolved Oxygen	pH	Coliform count	E.coli count	Fecal Coliform
		Demand (mg/L)	Nitrogen (mg/L)	(mg/L)	(mg/L)	(mg/L)		(mpn/100mL)	(mpn/100mL)	Count (mpn/100mL)
1. 靜止湖水	06/03/2023	5	0.18	0.04	0.6	9.51	8.06	410.6	5.2	7.4
2. 湖中心		< 3	0.08	< 0.02	0.2	8.71	8.07	146.7	5.2	14.6
3. 死角位置		10	0.14	0.08	0.5	9.20	8.25	185.0	8.5	26.5
4. 親水護岸區		24	0.18	0.09	1.0	9.05	8.24	1986.3	1.0	19.9
5. 死角位置		7	0.18	0.08	0.6	9.01	8.23	387.3	< 1.0	13.5
6. 湖中心		3	0.09	< 0.02	0.5	9.92	8.28	360.9	45.7	93.3
7. 死角位置		5	0.03	< 0.02	0.3	9.56	8.19	686.7	< 1.0	8.4
8. 排洪閘		6	0.14	0.04	1.2	8.15	8.23	14970.0	12.0	21.6
9. 雨水排入處		3	0.08	< 0.02	2.5	9.36	8.46	5200.0	2.0	3.1
10. 雨水排入處		7	0.51	0.03	2.8	9.48	8.22	4320.0	12.2	9.7
11. 雨水排入處		12	0.08	0.19	2.8	9.56	8.21	1732.9	5.2	2.0
12. 雨水排入處		12	0.08	< 0.02	1.7	9.63	8.22	1986.3	79.4	83.9
13. 不流通點		3	0.06	0.06	0.3	8.29	8.21	920.8	4.1	4.1
14. 不流通點		11	0.05	0.04	1.1	10.27	8.24	36090.0	1.0	< 1.0
15. 過濾池		< 3	0.05	< 0.02	0.1	9.23	8.21	28.8	< 1.0	< 1.0
平均值		8	0.13	0.07	1.1	9.26	8.22	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.

