

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 ($\mu\text{g/L}$)	Coliform bacteria (mpn/100ml)	<i>E.coli</i> count (mpn/100ml)	Turbidity (NTU)	pH value	Traceable Metal of Lead ($\mu\text{g/L}$)
W33	G044	11/09/2023 & 18/09/2023	0.06	7.54	0.080	0	0	0.05	7.79	< 0.07
	1009		0.05	7.71	< 0.07	0	0	0.05	7.81	< 0.07
	1036		0.06	7.73	< 0.07	0	0	0.06	7.86	< 0.07
	2009		0.05	7.75	< 0.07	0	0	0.05	7.86	< 0.07
	2036		0.06	7.76	< 0.07	0	0	0.06	7.88	< 0.07
	3009		0.05	7.79	< 0.07	0	0	0.05	7.88	< 0.07
	3036		0.06	7.81	< 0.07	0	0	0.05	7.87	< 0.07
	4009		0.07	7.78	< 0.07	0	0	0.05	7.87	< 0.07
	4036		0.08	7.78	< 0.07	0	0	0.06	7.94	< 0.07
	5009		0.06	7.84	< 0.07	0	0	0.05	7.94	< 0.07
	5036		0.07	7.91	< 0.07	0	0	0.05	7.94	< 0.07
	6009		0.06	7.90	< 0.07	0	0	0.05	7.93	< 0.07
	6036		0.07	7.88	< 0.07	0	0	0.05	8.03	< 0.07
	7017		0.06	7.88	< 0.07	0	0	0.05	7.98	< 0.07
7022	0.06	7.85	< 0.07	0	0	0.04	7.83	< 0.07		
W34	G022	18/09/2023	0.08	7.35	0.230	0	0	0.05	7.65	0.261
	1019		0.06	7.44	0.150	0	0	0.06	7.77	< 0.07
	1046		0.07	7.45	0.271	0	0	0.06	7.77	0.221
	2019		0.06	7.60	0.268	0	0	0.06	7.76	0.280
	2046		0.06	7.63	0.200	0	0	0.08	7.75	0.230
	3019		0.06	7.64	0.183	0	0	0.06	7.93	0.247
	3046		0.09	7.64	0.192	0	0	0.06	7.83	0.332
	4019		0.09	7.54	0.240	0	0	0.06	7.75	0.194
	4046		0.06	7.63	0.251	0	0	0.04	7.84	0.247
	5019		0.07	7.66	0.181	0	0	0.05	7.85	0.238
	5046		0.07	7.68	0.222	0	0	0.05	7.86	0.280
	6019		0.06	7.65	0.280	0	0	0.05	7.78	0.287
	6046		0.07	7.64	0.388	0	0	0.05	7.77	0.354
	7019		0.08	7.52	0.530	0	0	0.06	7.75	0.434

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

Turbidity: $\leq 0.5\text{NTU}$; pH value: 6.00 - 8.50; Traceable Metal of Lead: $\leq 0.01\text{mg/L}$ (10 $\mu\text{g/L}$); Coliform bacteria: Not detected; *E.coli* count: Not detected

Water Quality Test Result of Swimming Pool

Building	N8
Location	Swimming pool
Sampling Date	05/09/2023
pH	7.81
Turbidity (NTU)	0.16
Ammonia nitrogen (mg/L)	< 0.01
Chlorine (mg/L)	0.81
Ozone (mg/L)	< 0.01
Total coliform count (mpn/100ml)	<1
E.coli count (mpn/100ml)	<1
Total bacterial count (cfu/ml)	5

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 O₃; 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	6	< 0.02	0.16	0.0	9.16	8.12	20.3	< 1.0
2. 湖中心	6	0.02	0.18	0.0	8.92	8.18	2380.0	85.7	17.5	
3. 死角位置	9	0.04	0.16	0.0	8.93	8.11	2130.0	40.4	< 1.0	
4. 親水護岸區	8	0.04	0.11	0.0	8.87	8.19	2419.6	193.5	12.0	
5. 死角位置	9	0.06	0.19	0.0	8.91	8.08	1732.9	111.2	8.6	
6. 湖中心	9	0.08	0.14	0.0	8.45	8.08	263.8	162.4	6.3	
7. 死角位置	8	0.06	0.13	0.0	7.82	7.98	691.0	1299.7	21.1	
8. 排洪閘	8	0.02	0.13	0.0	7.96	7.96	8230.0	648.8	195.6	
9. 雨水排入處	9	0.10	0.14	0.0	8.25	8.17	7760.0	816.4	272.3	
10. 雨水排入處	8	0.12	0.11	0.0	8.01	8.08	22470.0	689.3	298.7	
11. 雨水排入處	5	0.07	0.16	0.5	8.48	7.86	2750.0	39.5	14.6	
12. 雨水排入處	7	0.06	0.22	0.0	8.72	7.89	3230.0	17.7	5.2	
13. 不流通點	13	0.24	0.23	0.0	8.08	7.82	22820.0	157.8	4.1	
14. 不流通點	10	0.50	0.21	0.0	8.18	7.73	2419.6	28.1	11.0	
15. 過濾池	10	0.15	0.23	0.0	8.82	8.82	2419.6	22.3	33.7	
平均值	8	0.11	0.17	0.03	8.50	8.07	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.

