

Water Quality Tests Results (Purified Water of Sue Water Purification Plant (Slow sand filtration method))

No.	Items	Purified Water of Sue Water Purification Plant (Slow sand filtration method)						Unit
		24-Apr-2024	23-May-2024	19-Jun-2024	23-Jul-2024	27-Aug-2024	11-Sep-2024	
	Water temperature	12.1	15.5	19.8	23.0	25.1	21.1	(°C)
1	Common Bacteria	3	1	3	3	2	< 1	(number/mL)
2	E.coli	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1	N.D. ※1	(MPN/100mL)
3	Cadmium		< 0.0003			< 0.0003		(mg/L)
4	Mercury		< 0.00005			< 0.00005		(mg/L)
5	Selenium	< 0.001			< 0.001			(mg/L)
6	Lead			< 0.001			< 0.001	(mg/L)
7	Arsenic	< 0.001			< 0.001			(mg/L)
8	Chromium (VI)	< 0.002			< 0.002			(mg/L)
9	Nitrite nitrogen	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	(mg/L)
10	Cyanide ion and Cyanogens chloride			< 0.001			< 0.001	(mg/L)
11	Nitrate and Nitrite	0.2	0.2	0.2	0.2	0.3	0.3	(mg/L)
12	Fluoride	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	(mg/L)
13	Boron			< 0.1			< 0.1	(mg/L)
14	Carbon tetrachloride			< 0.0002			< 0.0002	(mg/L)
15	1, 4-dioxane	< 0.005			< 0.005			(mg/L)
16	cis-1,2-Dichloroethylene and trans-1,2-Dichloroethylene			< 0.004			< 0.004	(mg/L)
17	Dichloromethane			< 0.002			< 0.002	(mg/L)
18	Tetrachloroethylene			< 0.001			< 0.001	(mg/L)
19	Trichloroethylene			< 0.001			< 0.001	(mg/L)
20	Benzene			< 0.001			< 0.001	(mg/L)
21	Chlorate	< 0.06	< 0.06	0.06	< 0.06	0.08	0.10	(mg/L)
22	Chloroacetic acid							(mg/L)
23	Chloroform			< 0.001			< 0.001	(mg/L)
24	Dichloroacetic acid							(mg/L)
25	Dibromochloromethane			< 0.001			< 0.001	(mg/L)
26	Bromate			< 0.001			< 0.001	(mg/L)
27	Total trihalomethanes			0.001			0.002	(mg/L)
28	Trichloroacetic acid							(mg/L)
29	Bromodichloromethane			< 0.001			< 0.001	(mg/L)
30	Bromoform			< 0.001			< 0.001	(mg/L)
31	Formaldehyde							(mg/L)
32	Zinc			< 0.01			< 0.01	(mg/L)
33	Aluminium	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
34	Iron	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	3.2	3.9	5.2	4.3	5.6	5.9	(mg/L)
37	Manganese	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	(mg/L)
38	Chloride ion	2.7	2.4	3.0	4.3	3.2	3.3	(mg/L)
39	Calcium, Magnesium (Hardness)	20	24	31	24	34	35	(mg/L)
40	Total residue	36			12			(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02			(mg/L)
42	Geosmin			< 0.000001	< 0.000001	< 0.000001	< 0.000001	(mg/L)
43	2-Methylisoborneol			< 0.000001	< 0.000001	< 0.000001	< 0.000001	(mg/L)
44	Nonionic surface active agent	< 0.005			< 0.005			(mg/L)
45	Phenols		< 0.0005			< 0.0005		(mg/L)
46	Organic substances (Total Organic Carbon)	< 0.3	< 0.3	< 0.3	0.3	0.4	< 0.3	(mg/L)
47	pH Value	7.5	7.4	7.3	7.2	7.4	7.3	
48	Taste	None	None	None	None	None	None	
49	Odor	None	None	None	None	None	None	
50	Color	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	(degree)
51	Turbidity	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	(degree)
	Free residual chlorine ※2	0.56	0.58	0.60	0.64	0.68	0.68	(mg/L)

※1 N.D. = Not detected

※2 Necessary sanitation measures: Free residual chlorine \geq 0.1 mg/L

Water Quality Tests Results
(Purified Water of Sue Water Purification Plant (Slow sand filtration method))

No.	Items	Purified Water of Sue Water Purification Plant (Slow sand filtration method)					Unit
		9-Oct-2024	25-Nov-2024	18-Dec-2024			
	Water temperature	19.7	10.7	6.8			(°C)
1	Common Bacteria	2	< 1	1			(number/mL)
2	E.coli	N.D. ※1	N.D. ※1	N.D. ※1			(MPN/100mL)
3	Cadmium		< 0.0003				(mg/L)
4	Mercury		< 0.00005				(mg/L)
5	Selenium	< 0.001					(mg/L)
6	Lead			< 0.001			(mg/L)
7	Arsenic	0.001					(mg/L)
8	Chromium (VI)	< 0.002					(mg/L)
9	Nitrite nitrogen	< 0.004	< 0.004	< 0.004			(mg/L)
10	Cyanide ion and Cyanogens chloride			< 0.001			(mg/L)
11	Nitrate and Nitrite	0.4	0.4	0.5			(mg/L)
12	Fluoride	< 0.08	0.10	< 0.08			(mg/L)
13	Boron			< 0.1			(mg/L)
14	Carbon tetrachloride			< 0.0002			(mg/L)
15	1, 4-dioxane	< 0.005					(mg/L)
16	cis-1,2-Dichloroethylene and trans-1,2-Dichloroethylene			< 0.004			(mg/L)
17	Dichloromethane			< 0.002			(mg/L)
18	Tetrachloroethylene			< 0.001			(mg/L)
19	Trichloroethylene			< 0.001			(mg/L)
20	Benzene			< 0.001			(mg/L)
21	Chlorate	< 0.06	< 0.06	< 0.06			(mg/L)
22	Chloroacetic acid						(mg/L)
23	Chloroform			< 0.001			(mg/L)
24	Dichloroacetic acid						(mg/L)
25	Dibromochloromethane			< 0.001			(mg/L)
26	Bromate			< 0.001			(mg/L)
27	Total trihalomethanes			0.001			(mg/L)
28	Trichloroacetic acid						(mg/L)
29	Bromodichloromethane			< 0.001			(mg/L)
30	Bromoform			< 0.001			(mg/L)
31	Formaldehyde						(mg/L)
32	Zinc			< 0.01			(mg/L)
33	Aluminium	< 0.01	< 0.01	< 0.01			(mg/L)
34	Iron	< 0.03	< 0.03	< 0.03			(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01			(mg/L)
36	Sodium	5.7	4.7	4.8			(mg/L)
37	Manganese	< 0.001	< 0.001	< 0.001			(mg/L)
38	Chloride ion	3.0	3.6	4.7			(mg/L)
39	Calcium, Magnesium (Hardness)	35	29	25			(mg/L)
40	Total residue	54					(mg/L)
41	Anionic surface active agent	< 0.02					(mg/L)
42	Geosmin	< 0.000001	< 0.000001				(mg/L)
43	2-Methylisobolneol	< 0.000001	< 0.000001				(mg/L)
44	Nonionic surface active agent	< 0.005					(mg/L)
45	Phenols		< 0.0005				(mg/L)
46	Organic substances (Total Organic Carbon)	0.5	0.4	< 0.3			(mg/L)
47	pH Value	7.4	7.5	7.5			
48	Taste	None	None	None			
49	Odor	None	None	None			
50	Color	< 0.5	< 0.5	1			(degree)
51	Turbidity	< 0.1	< 0.1	0.1			(degree)
	Free residual chlorine ※2	0.56	0.54	0.56			(mg/L)

※1 N.D. = Not detected

※2 Necessary sanitation measures: Free residual chlorine \geq 0.1 mg/L