

## Water Quality Tests Results (Source Water of Saigawa Water Purification Plant)

No.	Items	Source Water of Saigawa Water Purification Plant						Unit
		24-Apr-2024	23-May-2024	19-Jun-2024	23-Jul-2024	27-Aug-2024	11-Sep-2024	
	Water temperature	10.5	12.7	14.4	17.0	19.4	19.4	( °C )
1	Common Bacteria	18	12	160	160	330	90	(number/mL)
2	E.coli	22	5.2	25	110	77	48	(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	0.3	0.2	0.3	0.3	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	< 0.06	< 0.06	(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			< 0.001	(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	0.08	0.04	0.09	0.56	0.12	0.10	(mg/L)
34	Iron	0.05	< 0.03	0.05	0.30	0.10	0.09	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	5.2	5.5	6.1	5.2	6.3	6.4	(mg/L)
37	Manganese	0.004	0.004	0.004	0.016	0.011	0.013	(mg/L)
38	Chloride ion	4.8	4.4	4.4	3.7	4.2	4.4	(mg/L)
39	Calcium, Magnesium (Hardness)	17	20	21	18	22	24	(mg/L)
40	Total residue	45			88			(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02			(mg/L)
42	Geosmin			< 0.000001	< 0.000001	< 0.000001	0.000005	(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)	0.4	0.5	0.7	0.9	0.7	0.6	(mg/L)
47	pH Value	7.4	7.4	7.3	7.3	7.2	7.4	
48	Taste							
49	Odor	None	None	None	None	None	None	
50	Color	2	2	3	5	4	4	( degree )
51	Turbidity	2.3	2.3	2.5	11	2.8	3.0	( degree )
	Free residual chlorine							(mg/L)

※1 N.D. = Not detected

## Water Quality Tests Results (Source Water of Saigawa Water Purification Plant)

No.	Items	Source Water of Saigawa Water Purification Plant					Unit
		9-Oct-2024	25-Nov-2024	18-Dec-2024	9-Jan-2025		
	Water temperature	17.3	11.3	8.2	5.6		( °C )
1	Common Bacteria	170	50	28	9		(number/mL)
2	E.coli	62	34	24	12		(MPN/100mL)
3	Cadmium		< 0.0003				(mg/L)
4	Mercury		< 0.00005				(mg/L)
5	Selenium	< 0.001			< 0.001		(mg/L)
6	Lead			< 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		(mg/L)
10	Cyanide ion and Cyanogens chloride			< 0.001			(mg/L)
11	Nitrate and Nitrite	0.5	0.5	0.6	0.5		(mg/L)
12	Fluoride	< 0.08	0.09	< 0.08	< 0.08		(mg/L)
13	Boron			< 0.1			(mg/L)
14	Carbon tetrachloride			< 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			(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	< 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	0.27	0.16	0.10	0.10		(mg/L)
34	Iron	0.21	0.11	0.12	0.07		(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01		(mg/L)
36	Sodium	7.5	6.6	6.1	7.2		(mg/L)
37	Manganese	0.018	0.021	0.040	0.006		(mg/L)
38	Chloride ion	4.3	5.7	5.8	6.2		(mg/L)
39	Calcium, Magnesium (Hardness)	39	23	20	20		(mg/L)
40	Total residue	57			75		(mg/L)
41	Anionic surface active agent	< 0.02			< 0.02		(mg/L)
42	Geosmin	0.000002	0.000001				(mg/L)
43	2-Methylisobolneol	< 0.000001	< 0.000001				(mg/L)
44	Nonionic surface active agent	< 0.005			< 0.005		(mg/L)
45	Phenols		< 0.0005				(mg/L)
46	Organic substances (Total Organic Carbon)	1.2	0.7	0.6	0.4		(mg/L)
47	pH Value	7.3	7.6	7.4	7.2		
48	Taste						
49	Odor	None	None	None	None		
50	Color	7	4	5	2		( degree )
51	Turbidity	6.6	2.9	6.6	2.7		( degree )
	Free residual chlorine						(mg/L)

※1 N.D. = Not detected