

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

No.	Items	Source Water of Saigawa Water Purification Plant						Unit
		19/4/2019	28/5/2019	11/6/2019	8/7/2019	21/8/2019	4/9/2019	
	Water temperature	8.2	12.2	13.8	15.0	17.8	17.5	(°C)
1	Common Bacteria	3	7	57	72	750	120	(number/mL)
2	E.coli	110	5.2	42	30	68	59	(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)	< 0.005			< 0.005			(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	0.4	0.3	0.3	0.4	0.4	0.5	(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				(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	0.02	0.04	0.08	0.09	0.19	0.19	(mg/L)
34	Iron	< 0.03	0.03	0.05	0.06	0.12	0.11	(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	(mg/L)
36	Sodium	5.6	5.7	6.0	5.4	5.7	5.1	(mg/L)
37	Manganese	0.002	0.004	0.004	0.005	0.005	0.006	(mg/L)
38	Chloride ion	5.6	4.4	4.8	4.3	4.4	3.7	(mg/L)
39	Calcium, Magnesium (Hardness)	20	21	22	19	23	19	(mg/L)
40	Total residue	47			54			(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)	0.4	0.6	0.7	0.8	1.1	1.2	(mg/L)
47	pH Value	7.5	7.4	7.4	7.4	7.4	7.4	
48	Taste							
49	Odor	None	None	None	None	None	None	
50	Color	2	3	4	5	6	6	(degree)
51	Turbidity	1.1	1.5	1.5	2.6	4.4	4.4	(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
		20/10/2019	21/11/2019	4/12/2019	9/1/2020		
	Water temperature	15.2	10.1	9.8	7.9		(°C)
1	Common Bacteria	60	15	42	13		(number/mL)
2	E.coli	88	24	74	17		(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)	< 0.005			< 0.005		(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	0.4	0.5		(mg/L)
12	Fluoride	< 0.08	< 0.08	< 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	0.12	0.04	0.12	0.07		(mg/L)
34	Iron	0.08	0.04	0.09	0.05		(mg/L)
35	Copper	< 0.01	< 0.01	< 0.01	< 0.01		(mg/L)
36	Sodium	5.3	5.3	5.3	5.1		(mg/L)
37	Manganese	0.008	0.007	0.006	0.005		(mg/L)
38	Chloride ion	4.6	4.7	4.6	5.4		(mg/L)
39	Calcium, Magnesium (Hardness)	19	21	20	20		(mg/L)
40	Total residue	36			49		(mg/L)
41	Anionic surface active agent	< 0.02			< 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			< 0.005		(mg/L)
45	Phenols		< 0.0005				(mg/L)
46	Organic substances (Total Organic Carbon)	0.9	0.7	0.8	0.5		(mg/L)
47	pH Value	7.5	7.5	7.6	7.4		
48	Taste						
49	Odor	None	None	None	None		
50	Color	5	3	5	3		(degree)
51	Turbidity	3.4	2.0	3.0	1.7		(degree)
	Free residual chlorine						(mg/L)

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