

Water Quality Inspection Report_ April 2022 to December 2022

Sampling location: **Miho Fureai Park**

Supply route: Tanitsu Filtration Plant→ Ohirayama Reservoir

Items for Inspection	Units	Criterion Value	Sampling Date										Maximum	Minimum	Average
			6-Apr-2022	18-May-2022	6-Jun-2022	4-Jul-2022	1-Aug-2022	7-Sep-2022	12-Oct-2022	7-Nov-2022	5-Dec-2022				
Air temperature	°C	—	19.8	22.0	17.0	26.0	31.2	26.0	21.0	16.4	13.9	31.2	13.9	21.5	
Water temperature	°C	—	14.0	17.5	21.0	24.3	24.5	25.0	20.6	18.5	16.5	25.0	14.0	20.2	
1 Standard plate count bacteria	per ml	100 or less	0	0	0	0	0	0	0	0	0	0	0	0	
2 Bacillus Coli	—	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Detected 0 : Not Detected 9			
3 Cadmium or its chemical compounds	mg/L	0.003 or less	<0.0001	—	—	<0.0001	—	—	<0.0001	—	—	<0.0001	<0.0001	<0.0001	
4 Mercury or its chemical compounds	mg/L	0.0005 or less	<0.00005	—	—	<0.00005	—	—	<0.00005	—	—	<0.00005	<0.00005	<0.00005	
5 Selenium or its chemical compounds	mg/L	0.01 or less	<0.0005	—	—	<0.0005	—	—	<0.0005	—	—	<0.0005	<0.0005	<0.0005	
6 Lead or its chemical compounds	mg/L	0.01 or less	<0.0005	—	—	<0.0005	—	—	<0.0005	—	—	<0.0005	<0.0005	<0.0005	
7 Arsenic or its chemical compounds	mg/L	0.01 or less	<0.0003	—	—	0.0004	—	—	<0.0003	—	—	0.0004	<0.0003	<0.0003	
8 Hexavalent chromium or its chemical compounds	mg/L	0.02 or less	<0.0005	—	—	<0.0005	—	—	<0.0005	—	—	<0.0005	<0.0005	<0.0005	
9 Nitrate nitrogen	mg/L	0.04 or less	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	
10 Cyanide ion/ Zion chloride	mg/L	0.01 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
11 Nitrate nitrogen/ Nitrite nitrogen	mg/L	10 or less	0.7	0.6	0.6	0.5	0.6	0.6	0.8	0.5	0.7	0.8	0.5	0.6	
12 Flourine or its chemical compounds	mg/L	0.8 or less	<0.05	—	—	<0.05	—	—	<0.05	—	—	<0.05	<0.05	<0.05	
13 Boron or its chemical compounds	mg/L	1.0 or less	0.025	—	—	0.033	—	—	0.024	—	—	0.033	0.024	0.027	
14 Carbon tetrachloride	mg/L	0.002 or less	<0.0002	—	—	<0.0002	—	—	<0.0002	—	—	<0.0002	<0.0002	<0.0002	
15 Dioxane-1,4	mg/L	0.05 or less	<0.0005	—	—	<0.0005	—	—	<0.0005	—	—	<0.0005	<0.0005	<0.0005	
16 Cis-1,2 dichloroethylene and Trans-1,2 dichloroethylene	mg/L	0.04 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
17 Dichloromethane	mg/L	0.02 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
18 Tetrachloroethylene	mg/L	0.01 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
19 Trichloroethylene	mg/L	0.01 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
20 Benzene	mg/L	0.01 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
21 Chloric acid	mg/L	0.6 or less	<0.06	—	—	<0.06	—	—	<0.06	—	—	<0.06	<0.06	<0.06	
22 Chloroacetic acid	mg/L	0.02 or less	<0.002	—	—	<0.002	—	—	<0.002	—	—	<0.002	<0.002	<0.002	
23 Chloroform	mg/L	0.06 or less	0.006	—	—	0.009	—	—	0.003	—	—	0.009	0.003	0.006	
24 Dichloroacetate	mg/L	0.03 or less	0.002	—	—	<0.002	—	—	<0.002	—	—	0.002	<0.002	<0.002	
25 Dibromochloromethane	mg/L	0.1 or less	<0.001	—	—	0.001	—	—	<0.001	—	—	0.001	<0.001	<0.001	
26 Bromic acid	mg/L	0.01 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
27 Total trihalomethane	mg/L	0.1 or less	0.008	—	—	0.014	—	—	0.005	—	—	0.014	0.005	0.009	
28 Trichloroacetic acid	mg/L	0.03 or less	0.004	—	—	0.004	—	—	<0.002	—	—	0.004	<0.002	0.003	
29 Bromodichloromethane	mg/L	0.03 or less	0.002	—	—	0.004	—	—	0.002	—	—	0.004	0.002	0.003	
30 Bromoform	mg/L	0.09 or less	<0.001	—	—	<0.001	—	—	<0.001	—	—	<0.001	<0.001	<0.001	
31 Formaldehyde	mg/L	0.08 or less	<0.004	—	—	<0.004	—	—	<0.004	—	—	<0.004	<0.004	<0.004	
32 Zinc or its chemical compounds	mg/L	1.0 or less	<0.005	—	—	<0.005	—	—	<0.005	—	—	<0.005	<0.005	<0.005	
33 Alminum or its chemical compounds	mg/L	0.2 or less	0.044	—	—	0.12	—	—	0.038	—	—	0.12	0.038	0.067	
34 Iron or its chemical compounds	mg/L	0.3 or less	<0.005	—	—	<0.005	—	—	<0.005	—	—	<0.005	<0.005	<0.005	
35 Copper or its chemical compounds	mg/L	1.0 or less	<0.005	—	—	<0.005	—	—	<0.005	—	—	<0.005	<0.005	<0.005	
36 Sodium or its chemical compounds	mg/L	200 or less	6	—	—	7	—	—	6	—	—	7	6	6	
37 Manganese or its chemical compounds	mg/L	0.05 or less	<0.0003	—	—	<0.0003	—	—	<0.0003	—	—	<0.0003	<0.0003	<0.0003	
38 Chloride ion level	mg/L	200 or less	5	4	4	4	4	4	6	5	5	6	4	5	
39 Calcium/magnesium etc. (hardness)	mg/L	300 or less	48	—	—	54	—	—	52	—	—	54	48	51	
40 Evaporation residue	mg/L	500 or less	84	—	—	95	—	—	88	—	—	95	84	89	
41 Anionic detergents	mg/L	0.2 or less	<0.02	—	—	<0.02	—	—	<0.02	—	—	<0.02	<0.02	<0.02	
42 Geosmin *1	mg/L	0.00001 or less	<0.000001	—	—	<0.000001	—	—	<0.000001	—	—	<0.000001	<0.000001	<0.000001	
43 2-methylisoborneol *2	mg/L	0.00001 or less	<0.000001	—	—	<0.000001	—	—	<0.000001	—	—	<0.000001	<0.000001	<0.000001	
44 Nonionic surfactants	mg/L	0.02 or less	<0.005	—	—	<0.005	—	—	<0.005	—	—	<0.005	<0.005	<0.005	
45 Phenols	mg/L	0.005 or less	<0.0005	—	—	<0.0005	—	—	<0.0005	—	—	<0.0005	<0.0005	<0.0005	
46 TOC(Organic material)	mg/L	3 or less	0.5	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.5	0.2	0.3	
47 pH Count	—	From 5.8 to 8.6	7.5	7.6	7.7	7.8	7.7	7.8	7.2	7.8	7.6	7.8	7.2	7.6	
48 Flavor	—	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	Abnormal 0 : No Abnormalities 9			
49 Odour	—	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	No abnormalities	Abnormal 0 : No Abnormalities 9			
50 Chromaticity	°C	5 or less	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
51 Turbidity	°C	2 or less	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Chlorine residue	mg/L	0.1 or more ※3	0.36	0.42	0.34	0.36	0.38	0.44	0.42	0.40	0.42	0.44	0.34	0.39	
Findings			Meets water quality standards	Above items meet necessary water quality standards.	Above items meet necessary water quality standards.	Meets water quality standards	Above items meet necessary water quality standards.	Above items meet necessary water quality standards.	Meets water quality standards	Above items meet necessary water quality standards.	Above items meet necessary water quality standards.				
Duration of Inspection			from 6-Apr to 15-Apr	18-May to 19-May	6-Jun to 7-Jun	4-Jul to 14-Jul	1-Aug to 2-Aug	7-Sep to 8-Sep	12-Oct to 20-Oct	7-Nov to 8-Nov	5-Dec to 6-Dec				
Inspection Agency			Water Quality Management Division, Waterworks Department, Waterworks Bureau, City of Shizuoka (152-9 Ihara-cho, Shimizu-ku, Shizuoka City, Japan)												

Notes:

•Water quality inspections are carried out by methods set by the Minister of Health, Labour and Welfare (MHLW Notice 261, July 22, 2003)

•The symbol "<" to the left of values indicates a number less than said value

*1 Proper name: (4S, 4aS, 8aR) -Octahydro-4,8a-Dimethylnaphthalene-4a(2H)-All

*2 Proper name: 1,2,7,7-Tetramethylbicyclo[2,2,1]Heptane-2-All

*3 Isolated residual chlorine as it falls under Article 1, Part 3 of Enforcement Regulation 17 in the Waterworks Law

This is to certify that the above record is a translation of the original Water Quality Inspection Results.

Shimizu Port Authority