

Water Quality Inspection Report_ April 2023 to December 2023

Sampling location: **Miho Fureai Park**

Supply route: Yatsu Filtration Plant→ Ohirayama Reservoir

Items for Inspection	Units	Criterion Value	Sampling Date										Maximum	Minimum	Average	
			10-Apr-2023	8-May-2023	5-Jun-2023	3-Jul-2023	7-Aug-2023	13-Sep-2023	11-Oct-2023	6-Nov-2023	4-Dec-2023					
Air temperature	℃	—	16.7	18.4	25.8	27.4	29.9	28.7	22.9	23.8	11.3			29.9	11.3	22.8
Water temperature	℃	—	16.1	18.6	19.6	22.6	27.2	25.1	21.9	20.1	14.8			27.2	14.8	20.7
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	—	—	<0.0003	—	—	<0.0003	—	—			<0.0003	<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	0.7	0.5	0.6	0.6	0.8	0.6	0.6			0.8	0.5	0.6
12 Flourine or its chemical compounds	mg/L	0.8 or less	<0.05	—	—	0.06	—	—	0.06	—	—			0.06	<0.05	<0.05
13 Boron or its chemical compounds	mg/L	1.0 or less	0.027	—	—	0.026	—	—	0.027	—	—			0.027	0.026	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	<0.005	—	—	<0.005	—	—	<0.005	—	—			<0.005	<0.005	<0.005
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	0.002	—	—	0.012	—	—	0.012	—	—			0.012	0.002	0.009
24 Dichloroacetate	mg/L	0.03 or less	<0.002	—	—	<0.002	—	—	0.003	—	—			0.003	<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	0.004	—	—	0.016	—	—	0.015	—	—			0.016	0.004	0.012
28 Trichloroacetic acid	mg/L	0.03 or less	<0.002	—	—	0.006	—	—	0.006	—	—			0.006	<0.002	0.004
29 Bromodichloromethane	mg/L	0.03 or less	0.002	—	—	0.004	—	—	0.003	—	—			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	0.032	—	—	0.078	—	—	0.051	—	—			0.078	0.032	0.054
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	—	—	6	—	—	6	—	—			6	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	6	5	6	4	5	4	4	5	5			6	4	5
39 Calcium/magnesium etc. (hardness)	mg/L	300 or less	51	—	—	49	—	—	47	—	—			51	47	49
40 Evaporation residue	mg/L	500 or less	90	—	—	84	—	—	83	—	—			90	83	86
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	0.2	0.3	<0.2	0.5	0.6	0.3	0.6	0.2	<0.2			0.6	<0.2	0.3
47 pH Count	—	From 5.8 to 8.6	7.5	7.8	7.4	7.7	7.8	7.7	7.6	7.7	7.8			7.8	7.4	7.7
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	0.44	0.38	0.38	0.30	0.36	0.34	0.32	0.40	0.50			0.50	0.30	0.38
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 10-Apr	8-May	5-Jun	3-Jul	7-Aug	13-Sep	11-Oct	6-Nov	4-Dec					
			to 21-Apr	9-May	6-Jun	12-Jul	8-Aug	14-Sep	19-Oct	7-Nov	5-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