

Water Quality Inspection Report_ April 2024 to December 2024

Sampling location: **Miho Fureai Park**

Supply route: Yatsu Filtration Plant→ Ohirayama Reservoir

| Items for Inspection | Units | Sampling Date Criterion Value | 8-Apr-2024 | 13-May-2024 | 3-Jun-2024 | 1-Jul-2024 | 14-Aug-2024 | 2-Sep-2024 | 2-Oct-2024 | 6-Nov-2024 | 2-Dec-2024 | Maximum | Minimum | Average |
|--|--------|----------------------------------|-------------------------------|---|---|-------------------------------|---|---|-------------------------------|---|---|---|-----------|-----------|
| | | | | | | | | | | | | | | |
| Air temperature | °C | — | 19.7 | 20.3 | 22.6 | 25.1 | 29.5 | 29.6 | 28.8 | 18.6 | 15.3 | 29.6 | 15.3 | 23.3 |
| Water temperature | °C | — | 15.8 | 19.2 | 20.3 | 21.7 | 26.4 | 24.5 | 25.5 | 20.3 | 15.6 | 26.4 | 15.6 | 21.0 |
| 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 | — | — | 0.0005 | — | — | 0.0005 | <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 | 0.6 | 0.4 | 0.5 | 10 or less | 0.6 | 0.7 | 0.4 | 0.6 | 0.6 | 0.7 | 0.4 | 0.5 |
| 12 Flourine or its chemical compounds | mg/L | 0.8 or less | 0.06 | 0.06 | 0.06 | <0.05 | 0.05 | <0.05 | 0.06 | <0.05 | 0.05 | 0.06 | <0.05 | <0.05 |
| 13 Boron or its chemical compounds | mg/L | 1.0 or less | 0.025 | — | — | 0.018 | — | — | 0.034 | — | — | 0.034 | 0.018 | 0.026 |
| 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 | <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 | 0.005 | — | — | 0.005 | — | — | 0.008 | — | — | 0.008 | 0.005 | 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 | — | — | 0.002 | — | — | 0.002 | <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 | 0.007 | — | — | 0.007 | — | — | 0.014 | — | — | 0.014 | 0.007 | 0.009 |
| 28 Trichloroacetic acid | mg/L | 0.03 or less | <0.002 | — | — | 0.002 | — | — | 0.003 | — | — | 0.003 | <0.002 | <0.002 |
| 29 Bromodichloromethane | mg/L | 0.03 or less | 0.002 | — | — | 0.002 | — | — | 0.004 | — | — | 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 Aluminum or its chemical compounds | mg/L | 0.2 or less | 0.050 | — | — | 0.044 | — | — | 0.072 | — | — | 0.072 | 0.044 | 0.055 |
| 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 | — | — | 7 | — | — | 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 | 4 | 4 | 4 | 4 | 4 | 6 | 4 | 4 | 4 | 6 | 4 | 4 |
| 39 Calcium/magnesium etc. (hardness) | mg/L | 300 or less | 52 | — | — | 44 | — | — | 59 | — | — | 59 | 44 | 52 |
| 40 Evaporation residue | mg/L | 500 or less | 91 | — | — | 75 | — | — | 108 | — | — | 108 | 75 | 91 |
| 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 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.3 |
| 47 pH Count | — | From 5.8 to 8.6 | 7.7 | 7.7 | 7.6 | 7.6 | 7.9 | 7.4 | 7.9 | 7.5 | 7.9 | 7.9 | 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 | 0.44 | 0.34 | 0.38 | 0.4 | 0.58 | 0.34 | 0.38 | 0.50 | 0.58 | 0.34 | 0.42 |
| 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 8-Apr | 13-May | 3-Jun | 1-Jul | 14-Aug | 2-Sep | 2-Oct | 6-Nov | 2-Dec | | | |
| Inspection Agency | | | to 19-Apr | 14-May | 4-Jun | 12-Jul | 15-Aug | 3-Sep | 15-Oct | 7-Nov | 3-Dec | 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