

**Water Quality Tests Results**  
(Purified Water of Shijima-naka Water Distribution Plant)

| No. | Items   | Purified Water of Shijima-naka Water Distribution Plant |             |             |             |             |             | Unit        |
|-----|---|---|-------------|-------------|-------------|-------------|-------------|-------------|
|     |   | 24-Apr-2024   | 23-May-2024 | 19-Jun-2024 | 23-Jul-2024 | 27-Aug-2024 | 11-Sep-2024 |             |
|     | Water temperature   | 12.0  | 14.5        | 19.8        | 22.6        | 23.5        | 22.4        | ( °C )      |
| 1   | Common Bacteria   | < 1   | < 1         | < 1         | < 1         | < 1         | < 1         | (number/mL) |
| 2   | E.coli  | N.D. ※1   | N.D. ※1     | N.D. ※1     | N.D. ※1     | N.D. ※1     | N.D. ※1     | (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   | 0.2   | 0.2         | 0.1         | 0.2         | 0.2         | 0.2         | (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  | <i>cis</i> -1,2-Dichloroethylene and <i>trans</i> -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  |   |             | 0.010       |             |             | 0.010       | (mg/L)      |
| 24  | Dichloroacetic acid   |   |             |             |             |             |             | (mg/L)      |
| 25  | Dibromochloromethane  |   |             | 0.002       |             |             | < 0.001     | (mg/L)      |
| 26  | Bromate   |   |             | < 0.001     |             |             | < 0.001     | (mg/L)      |
| 27  | Total trihalomethanes   |   |             | 0.017       |             |             | 0.017       | (mg/L)      |
| 28  | Trichloroacetic acid  |   |             |             |             |             |             | (mg/L)      |
| 29  | Bromodichloromethane  |   |             | 0.006       |             |             | 0.006       | (mg/L)      |
| 30  | Bromoform   |   |             | < 0.001     |             |             | < 0.001     | (mg/L)      |
| 31  | Formaldehyde  |   |             |             |             |             |             | (mg/L)      |
| 32  | Zinc  |   |             | < 0.01      |             |             | < 0.01      | (mg/L)      |
| 33  | Aluminium   | 0.03  | 0.04        | 0.07        | 0.05        | 0.08        | 0.05        | (mg/L)      |
| 34  | Iron  | < 0.03  | < 0.03      | < 0.03      | < 0.03      | < 0.03      | < 0.03      | (mg/L)      |
| 35  | Copper  | < 0.01  | < 0.01      | < 0.01      | < 0.01      | < 0.01      | < 0.01      | (mg/L)      |
| 36  | Sodium  | 3.6   | 4.4         | 5.4         | 4.8         | 5.8         | 5.9         | (mg/L)      |
| 37  | Manganese   | < 0.001   | < 0.001     | < 0.001     | < 0.001     | < 0.001     | < 0.001     | (mg/L)      |
| 38  | Chloride ion  | 3.8   | 4.4         | 4.8         | 5.1         | 5.6         | 6.0         | (mg/L)      |
| 39  | Calcium, Magnesium (Hardness)   | 23  | 22          | 24          | 25          | 24          | 26          | (mg/L)      |
| 40  | Total residue   | 49  |             |             | 40          |             |             | (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-Methylisobolneol  |   |             | < 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)                               | < 0.3   | < 0.3       | < 0.3       | 0.4         | 0.5         | 0.3         | (mg/L)      |
| 47  | pH Value  | 7.4   | 7.5         | 7.5         | 7.4         | 7.5         | 7.5         |             |
| 48  | Taste   | None  | None        | None        | None        | None        | None        |             |
| 49  | Odor  | None  | None        | None        | None        | None        | None        |             |
| 50  | Color   | < 0.5   | < 0.5       | < 0.5       | < 0.5       | < 0.5       | < 0.5       | ( degree )  |
| 51  | Turbidity   | < 0.1   | < 0.1       | < 0.1       | < 0.1       | < 0.1       | < 0.1       | ( degree )  |
|     | Free residual chlorine ※2   | 0.44  | 0.48        | 0.48        | 0.56        | 0.52        | 0.52        | (mg/L)      |

※1 N.D. = Not detected

※2 Necessary sanitation measures: Free residual chlorine  $\geq$ 0.1 mg/L

**Water Quality Tests Results**  
(Purified Water of Shijima-naka Water Distribution Plant)

| No. | Items   | Purified Water of Shijima-naka Water Distribution Plant |             |             |  |  | Unit        |
|-----|---|---|-------------|-------------|--|--|-------------|
|     |   | 9-Oct-2024  | 25-Nov-2024 | 18-Dec-2024 |  |  |             |
|     | Water temperature   | 17.7  | 11.2        | 9.3         |  |  | ( °C )      |
| 1   | Common Bacteria   | < 1   | < 1         | < 1         |  |  | (number/mL) |
| 2   | E.coli  | N.D. ※1   | N.D. ※1     | N.D. ※1     |  |  | (MPN/100mL) |
| 3   | Cadmium   |   | < 0.0003    |             |  |  | (mg/L)      |
| 4   | Mercury   |   | < 0.00005   |             |  |  | (mg/L)      |
| 5   | Selenium  | < 0.001   |             |             |  |  | (mg/L)      |
| 6   | Lead  |   |             | < 0.001     |  |  | (mg/L)      |
| 7   | Arsenic   | < 0.001   |             |             |  |  | (mg/L)      |
| 8   | Chromium (VI)   | < 0.002   |             |             |  |  | (mg/L)      |
| 9   | Nitrite nitrogen  | < 0.004   | < 0.004     | < 0.004     |  |  | (mg/L)      |
| 10  | Cyanide ion and Cyanogens chloride                                      |   |             | < 0.001     |  |  | (mg/L)      |
| 11  | Nitrate and Nitrite   | 0.4   | 0.3         | 0.3         |  |  | (mg/L)      |
| 12  | Fluoride  | < 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   |             |             |  |  | (mg/L)      |
| 16  | <i>cis</i> -1,2-Dichloroethylene and <i>trans</i> -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      |  |  | (mg/L)      |
| 22  | Chloroacetic acid   |   |             |             |  |  | (mg/L)      |
| 23  | Chloroform  |   |             | 0.003       |  |  | (mg/L)      |
| 24  | Dichloroacetic acid   |   |             |             |  |  | (mg/L)      |
| 25  | Dibromochloromethane  |   |             | 0.002       |  |  | (mg/L)      |
| 26  | Bromate   |   |             | < 0.001     |  |  | (mg/L)      |
| 27  | Total trihalomethanes   |   |             | 0.008       |  |  | (mg/L)      |
| 28  | Trichloroacetic acid  |   |             |             |  |  | (mg/L)      |
| 29  | Bromodichloromethane  |   |             | 0.003       |  |  | (mg/L)      |
| 30  | Bromoform   |   |             | < 0.001     |  |  | (mg/L)      |
| 31  | Formaldehyde  |   |             |             |  |  | (mg/L)      |
| 32  | Zinc  |   |             | < 0.01      |  |  | (mg/L)      |
| 33  | Aluminium   | 0.06  | 0.04        | 0.03        |  |  | (mg/L)      |
| 34  | Iron  | < 0.03  | < 0.03      | < 0.03      |  |  | (mg/L)      |
| 35  | Copper  | < 0.01  | < 0.01      | < 0.01      |  |  | (mg/L)      |
| 36  | Sodium  | 6.9   | 6.3         | 5.7         |  |  | (mg/L)      |
| 37  | Manganese   | < 0.001   | < 0.001     | < 0.001     |  |  | (mg/L)      |
| 38  | Chloride ion  | 7.0   | 7.2         | 6.6         |  |  | (mg/L)      |
| 39  | Calcium, Magnesium (Hardness)   | 24  | 38          | 31          |  |  | (mg/L)      |
| 40  | Total residue   | 57  |             |             |  |  | (mg/L)      |
| 41  | Anionic surface active agent  | < 0.02  |             |             |  |  | (mg/L)      |
| 42  | Geosmin   | 0.000001  | < 0.000001  |             |  |  | (mg/L)      |
| 43  | 2-Methylisobolneol  | < 0.000001  | < 0.000001  |             |  |  | (mg/L)      |
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| 45  | Phenols   |   | < 0.0005    |             |  |  | (mg/L)      |
| 46  | Organic substances (Total Organic Carbon)                               | 0.6   | 0.4         | 0.4         |  |  | (mg/L)      |
| 47  | pH Value  | 7.6   | 7.6         | 7.6         |  |  |             |
| 48  | Taste   | None  | None        | None        |  |  |             |
| 49  | Odor  | None  | None        | None        |  |  |             |
| 50  | Color   | < 0.5   | < 0.5       | < 0.5       |  |  | ( degree )  |
| 51  | Turbidity   | < 0.1   | < 0.1       | < 0.1       |  |  | ( degree )  |
|     | Free residual chlorine ※2   | 0.60  | 0.44        | 0.46        |  |  | (mg/L)      |

※1 N.D. = Not detected

※2 Necessary sanitation measures: Free residual chlorine  $\geq$  0.1 mg/L