

# Water Quality Tests Results

## (Purified Water of Shijima-naka Water Distribution Plant)

| No. | Items                                                    | Purified Water of Shijima-naka Water Distribution Plant |             |             |            |  |  | Unit        |
|-----|----------------------------------------------------------|---------------------------------------------------------|-------------|-------------|------------|--|--|-------------|
|     |                                                          | 28-Apr-2023                                             | 31-May-2023 | 21-Jun-2023 | 5-Jul-2023 |  |  |             |
|     | Water temperature                                        | 11.0                                                    | 16.3        | 18.0        | 23.1       |  |  | ( °C )      |
| 1   | Common Bacteria                                          | < 1                                                     | < 1         | < 1         | < 1        |  |  | (number/mL) |
| 2   | E.coli                                                   | N.D. ※1                                                 | 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                                                 |             |             | < 0.001    |  |  | (mg/L)      |
| 6   | Lead                                                     |                                                         |             | < 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    |  |  | (mg/L)      |
| 10  | Cyanide ion and Cyanogens chloride                       |                                                         |             | < 0.001     |            |  |  | (mg/L)      |
| 11  | Nitrate and Nitrite                                      | 0.2                                                     | 0.2         | 0.2         | 0.2        |  |  | (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                                               |                                                         |             | 0.017       |            |  |  | (mg/L)      |
| 24  | Dichloroacetic acid                                      |                                                         |             |             |            |  |  | (mg/L)      |
| 25  | Dibromochloromethane                                     |                                                         |             | 0.001       |            |  |  | (mg/L)      |
| 26  | Bromate                                                  |                                                         |             | < 0.001     |            |  |  | (mg/L)      |
| 27  | Total trihalomethanes                                    |                                                         |             | 0.024       |            |  |  | (mg/L)      |
| 28  | Trichloroacetic acid                                     |                                                         |             |             |            |  |  | (mg/L)      |
| 29  | Bromodichloromethane                                     |                                                         |             | 0.006       |            |  |  | (mg/L)      |
| 30  | Bromoform                                                |                                                         |             | < 0.001     |            |  |  | (mg/L)      |
| 31  | Formaldehyde                                             |                                                         |             |             |            |  |  | (mg/L)      |
| 32  | Zinc                                                     |                                                         |             | < 0.01      |            |  |  | (mg/L)      |
| 33  | Aluminium                                                | 0.02                                                    | 0.04        | 0.06        | 0.06       |  |  | (mg/L)      |
| 34  | Iron                                                     | < 0.03                                                  | < 0.03      | < 0.03      | < 0.03     |  |  | (mg/L)      |
| 35  | Copper                                                   | < 0.01                                                  | < 0.01      | < 0.01      | < 0.01     |  |  | (mg/L)      |
| 36  | Sodium                                                   | 4.1                                                     | 3.6         | 4.5         | 4.9        |  |  | (mg/L)      |
| 37  | Manganese                                                | < 0.001                                                 | < 0.001     | < 0.001     | < 0.001    |  |  | (mg/L)      |
| 38  | Chloride ion                                             | 4.8                                                     | 4.8         | 4.4         | 5.0        |  |  | (mg/L)      |
| 39  | Calcium, Magnesium (Hardness)                            | 24                                                      | 20          | 25          | 25         |  |  | (mg/L)      |
| 40  | Total residue                                            | 52                                                      |             |             | 85         |  |  | (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)                | < 0.3                                                   | 0.4         | 0.5         | 0.5        |  |  | (mg/L)      |
| 47  | pH Value                                                 | 7.4                                                     | 7.3         | 7.5         | 7.5        |  |  |             |
| 48  | Taste                                                    | None                                                    | None        | None        | None       |  |  |             |
| 49  | Odor                                                     | None                                                    | None        | None        | None       |  |  |             |
| 50  | Color                                                    | < 0.5                                                   | < 0.5       | < 0.5       | < 0.5      |  |  | ( degree )  |
| 51  | Turbidity                                                | < 0.1                                                   | < 0.1       | < 0.1       | < 0.1      |  |  | ( degree )  |
|     | Free residual chlorine ※2                                | 0.38                                                    | 0.40        | 0.40        | 0.42       |  |  | (mg/L)      |

※1 N.D. = Not detected

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