

# Water Quality Results

New Jersey American Water conducts extensive monitoring to determine if your water meets all water quality standards. The detections of our monitoring are reported in the following tables. While most monitoring was conducted in 2020, certain substances are monitored less than once per year because the levels do not change frequently. Some unregulated substances are measured, but maximum contaminant levels have not been established by the government. These contaminants are shown for your information. **Regulated contaminants not listed in this table were not found in the treated water supply.**

## NJ American Water – Western – PWSID# NJ0327001

### PRIMARY REGULATED SUBSTANCES

| DISINFECTANTS - Collected at the Surface Water Treatment Plant |              |                     |       |      |                           |                   |                |   |
|--|--------------|---------------------|-------|------|---------------------------|-------------------|----------------|---|
| Substance (with units)   | Year Sampled | Compliance Achieved | MRDLG | MRDL | Minimum Chlorine Residual | Compliance Result | Range Detected | Typical Source                          |
| Entry Point Chlorine Residual (ppm) <sup>1</sup>               | 2020         | Yes                 | 4     | 4    | TT ≥ 0.20                 | 1.46              | 0.56 to 1.46   | Water additive used to control microbes |

1 - Data represents the lowest residual entering the distribution system from our water treatment plant.

| TREATMENT BYPRODUCTS PRECURSOR REMOVAL - Collected at the Treatment Plant |              |                     |      |                                  |                             |                                       |                                      |                                       |
|---|--------------|---------------------|------|----------------------------------|-----------------------------|---------------------------------------|--------------------------------------|---------------------------------------|
| Substance (with units)  | Year Sampled | Compliance Achieved | MCLG | MCL                              | Range of % Removal Required | Range of % and Ratio Removal Achieved | Number of Quarters Out of Compliance | Typical Source                        |
| Total Organic Carbon (TOC)  | 2020         | Yes                 | NA   | TT ≥ 35% Removal                 | 35% to 45%                  | 45% to 66%                            | 0                                    | Naturally present in the environment. |
| Actual / Required TOC Removal (Ratio)                                     | 2020         | Yes                 | NA   | TT: Running Annual Average ≥ 1.0 |                             | 1.29 to 1.89                          | 0                                    | Naturally present in the environment. |

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## PRIMARY REGULATED SUBSTANCES

| TURBIDITY - Continuous Monitoring at the Treatment Plant |              |                     |      |                                       |  |   |                |
|--|--------------|---------------------|------|---------------------------------------|--|---|----------------|
| Substance (with units)                                   | Year Sampled | Compliance Achieved | MCLG | MCL                                   | Highest Single Measurement and Lowest Monthly % of Samples ≤ 0.3 NTU | Sample Date of Highest and Lowest Compliance Result | Typical Source |
| Turbidity (NTU) <sup>2</sup>                             | 2020         | Yes                 | 0    | TT: Single result > 1 NTU             | 0.1  | 1/3/2020  | Soil runoff.   |
|  | 2020         | Yes                 | NA   | TT: At least 95% of samples ≤ 0.3 NTU | 100%   | NA  | Soil runoff.   |

2 - 100% of the turbidity readings were below the treatment technique requirement of 0.3 NTU. Turbidity is a measure of the cloudiness of the water. We monitor turbidity because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

| OTHER REGULATED SUBSTANCES - Collected at the Treatment Plant |              |                     |      |          |                           |                |  |
|---|--------------|---------------------|------|----------|---------------------------|----------------|--|
| Substance (with units)  | Year Sampled | Compliance Achieved | MCLG | MCL/SMCL | Highest Compliance Result | Range Detected | Typical Source   |
| Nitrate (ppm)   | 2020         | Yes                 | 10   | 10       | 0.99                      | ND to 0.99     | Runoff from fertilizer use; industrial or domestic wastewater discharges; erosion of natural deposits. |
| Barium (ppm)  | 2020         | Yes                 | 2    | 2        | 0.1                       | ND to 0.1      | Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.            |
| Copper (ppm)  | 2020         | Yes                 | 1.3  | 1.3      | 0.038                     | ND to 0.038    | Plumbing fixtures & piping; erosion of natural deposits.   |
| Lead (ppb)  | 2020         | Yes                 | 0    | 15       | 3                         | ND to 3        | Plumbing fixtures & piping; erosion of natural deposits.   |
| Alpha Emitters (pCi/L)  | 2020         | Yes                 | 0    | 15       | 5.72                      | 3.91 to 5.72   | Erosion of natural deposits.   |
| Combined Radium 226/228 (pCi/L)                               | 2020         | Yes                 | 0    | 5        | 1.63                      | ND to 1.63     | Erosion of natural deposits.   |



# Water Quality Results

| UNREGULATED PERFLUORINATED COMPOUNDS |       |                |                |  |
|--------------------------------------|-------|----------------|----------------|--|
| Parameter                            | Units | Average Result | Range Detected | Typical Source   |
| Perfluorooctanoic Acid (PFOA)        | ppt   | 0.46           | ND to 5.0      | Used for its emulsifier and surfactant properties in or as fluoropolymers (such as Teflon), fire fighting foams, cleaners, cosmetics, lubricants, paints, polishes, adhesives and photographic films |
| Perfluoropentanoic Acid (PFOS)       | ppt   | 0.41           | ND to 4.8      | Manmade chemical; used in products for stain, grease, heat and water resistance  |

| Unregulated Contaminants Monitoring (UCMR4) 2019 |       |                |                |  |
|--|-------|----------------|----------------|--|
| Parameter  | Units | Average Result | Range Detected | Typical Source   |
| Manganese <sup>3</sup>                           | ppb   | 1.02           | ND to 1.8      | Naturally-occurring elemental metal; largely used in aluminum alloy production. Essential dietary element.                       |
| 2-Methoxyethanol                                 | ppb   | 0.24           | ND to 0.47     | Used as a solvent in varnishes, dyes, resins, airplane deicing solutions. It is also used in organometallic chemistry synthesis. |

3 - Manganese is regulated as a secondary contaminant with a secondary maximum contaminant level of 50 ppb