

New Jersey American Water - Western NJ0327001

2023 Table of Detected Contaminants

Contaminants not reported were not detected in the treated water supply

PRIMARY REGULATED SUBSTANCES

DISINFECTANTS - Collected at the Surface Water Treatment Plant

Substance (with units)	Year Sampled	Compliance Achieved	MRDLG	MCL	Compliance Result	Range Detected	Typical Source
Entry Point Chlorine Residual (ppm) ¹	2023	Yes	4	TT: Results ≥ 0.2	0.95 ¹	0.77 to 1.13	Water additive used to control microbes.

¹ - Data represents the lowest monthly 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	Range of % Removal Required	Range of % Removal Achieved	Number of Quarters Out of Compliance	Typical Source
Total Organic Carbon (TOC)	2023	Yes	NA	35%	35% to 69%	0	Naturally present in the environment.
Actual/Required TOC Removal (Ratio)	2023	Yes	NA	1	1 to 1.97	0	Naturally present in the environment.

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) ²	2023	Yes	0	TT: Single result >1 NTU	0.1	09/29/2023	Soil runoff.
	2023	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 the effectiveness of our filtration system. High turbidity can also hinder the effectiveness of disinfectants.

OTHER REGULATED SUBSTANCES - Collected at the Treatment Plant

Substance (with units)	Year Sampled	Compliance Achieved	MCLG	MCL	Highest Compliance Result	Range detected	Typical Source
Alpha Emitters (pCi/L)	2023	Yes	0	15	4.66	ND to 4.66	Erosion of natural deposits.
Arsenic (ppb)	2023	Yes	0	5	1	NA	Naturally occurring
Barium (ppm)	2023	Yes	2	2	0.1	NA	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Fluoride (ppm)	2023	Yes	4	4	0.4	ND to 0.4	Natural element in rocks, soil, and water.
Nickel (ppb)	2023	Yes	NA	NA	6	NA	Natural element of the earth's crust
Nitrate (ppm)	2023	Yes	5	10	2.23	ND to 2.23	Runoff from fertilizer use; industrial or domestic wastewater discharges; erosion of natural deposits.
Perfluorooctanoic acid (PFOA) (ppt)	2023	Yes	0	14	4.1	ND to 4.1	Used in Teflons, fire fighting foams, cleaners, cosmetics, lubricants, paints, polishes, adhesives, photo films.
Perfluorooctanesulfonic acid (PFOS) (ppt)	2023	Yes	0	13	4	ND to 4.0	Manmade chemical; used in products for stain, grease, heat and water resistance
Combined Radium Ra226 + Ra 228 (pCi/L)	2023	Yes	0	15	1.25	ND to 1.25	Erosion of natural deposits.

For more information on the U.S. EPA's proposed PFAS drinking water standards, including the Hazard Index, please visit <https://www.epa.gov/pfas>.

PFAS chemicals are unique, so two PFAS chemicals at the same level typically do not present the same risk. Therefore, you should not compare the results for one PFAS chemical against the results of another.

SECONDARY REGULATED SUBSTANCES

SECONDARY REGULATED SUBSTANCES - Collected at the Treatment Plant

Substance (with units)	Year Sampled	Compliance Achieved	MCLG	SMCL	Highest Compliance Result	Range detected	Typical Source
Iron (ppm) ^{3, 4}	2023	Yes	NA	0.3	0.46	ND to 0.87	Naturally present in the environment.

³ - Substances with Secondary MCLs do not have MCLGs; these limits are primarily established to address aesthetic concerns.

⁴ - The recommended upper limit for iron is based on unpleasant taste of the water and staining of laundry. Iron is an essential nutrient, but some people who drink water with iron levels well above the recommended upper limit could develop deposits of iron in a number of organs of the body.