New Jersey American Water - Western System NJ0327001

2022 Data Table of Detected Contaminants

Contaminants not reported were not detected in the treated water supply PRIMARY REGULATED SUBSTANCES

PRIMARY REGULATED SUBSTANCES

Typical Source		Range Detected	Highest Single Measurement and Lowest Monthly % of	MCL	MCLG	Year Sampled Compliance Achieved	Year Sampled	Substance (with units)
			ED SUBSTANCES	PRIMARY REGULATED SUBSTANCES	PR			
Naturally present in the environment.	0	1.23 - 1.60	1.5	TT: Running Annual Average ≥ 1.0	NA	Yes	2022	Actual / Required TOC Removal (Ratio)
Naturally present in the environment.	0	43% - 61%	35%	TT ≥ 35% Removal	NA	Yes	2022	TOC - Total Organic Carbon (mg/L)
Typical Source	Number of Quarters Out of Compliance	Range of % and Ratio Removal Achieved	% Removal Required and Lowest Quarterly Average Ratio	MCL	MCLG	Compliance Achieved	Year Sampled	Substance (with units)
	ant	Treatment Pla	TREATMENT BYPRODUCTS PRECURSOR REMOVAL - Collected at the Treatment Plan	TS PRECURSOR REM	NT BYPRODUC	TREATME		
By-product of drinking water disinfection.	By-product o	ND to 7	4,3	10	0	Yes	2022	Bromate (ppb)
Typical Source		Range Detected	Highest Compliance Result	MCL	MCLG	Compliance Achieved	Year Sampled	Substance (with units)
		Plant	DISINFECTION BYPRODUCTS - Collected at the Treatment Plant	N BYPRODUCTS - Coll	DISINFECTIO			
the Range Detected reflects all samples from this year used	id the Range Detected r	it any location an	ects the highest average a	st Compliance Result refl	ation. The Highe	inual average at each loci	on the running an ual average.	NOTE: Compliance is based on the running annual average at each location. The Highest Compliance Result reflects the highest average at any location and to calculate the running annual average.
By-product of drinking water disinfection.	By-product of	ND-17.0	14.9	60	NA	Yes	2022	Haloacetic Acids (HAAs) (ppb)
By-product of drinking water disinfection.	By-product of	8.1-46.0	43.0	80	NA	Yes	2022	Total Trihalomethanes (TTHMs) (ppb)
Typical Source		Range Detected	Highest Compliance Result	MCL	MCLG	Compliance Achieved	Year Sampled	Substance (with units)
		System	DISINFECTION BYPRODUCTS - Collected in the Distribution System	BYPRODUCTS - Collec	DISINFECTION			
				treatment plant.) from our water	ng the distribution system	st residual enterir	1 - Data represents the lowest residual entering the distribution system from our water treatment plant
Water additive used to control microbes.	0.05 to 1.30	1.3	0.05	4	4	Yes	2022	Distribution System Chlorine Residual (ppm) ²
Water additive used to control microbes.	0.50 to 1.15	0.51	Π≥0.20	4	4	Yes	2022	Entry Point Chlorine Residual (ppm) ¹
Typical Source	Range Detected	Highest Level Detected	Minimum Chlorine Residual	MRDL	MRDLG	Compliance Achieved	Year Sampled	Substance (with units)
	stem	Distribution Sy	DISINFECTANTS - Collected at the Surface Water Treatment Plant and Distribution System	d at the Surface Wate	NTS - Collecte	DISINFECTA		
			D SUBSTANCES	PRIMARY REGULATED SUBSTANCES	9			

Samples ≤ 0.3 NTU

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 mon		Turbidity (NTU) ²
adings were below th	2022	2022
ie treatment techniqu	Yes	Yes
ue requirement of	NA	0
0.3 NTU. Turbidity is a me	TT: At least 95% of samples ≤ 0.3 NTU	TT: Single result > 1 NTU
asure of the cloudiness	100%	0.1
of the water. We monitor	NA	0.03 - 0.15
nitor turbidity because it is a good indicator of water quality	Soil runoff	Soil runoff

1.75
6.2
2.1
Highest Compliance Result
OTHER REGULATED SUBSTANCES - Collected at the Treatment Plant
2 - 100% of the furbidity 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.
100%
0.1

			Unregulated (Unregulated Contaminants Monitoring (UCMR4) 2019
Parameter	Units	Average Result	Range Detected	Typical Source
Manganese ⁴	ppb	1.02	ND to 1.8	Naturally-occuring 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.
Bromochloroacetic Acid	ppb	1.32	ND to 2.8	By-product of drinking water disinfection
Bromodichloroacetic acid	ppb	0.97	ND to 2.5	By-product of drinking water disinfection
Chlorodibromoacetic acid	ppb	0.33	ND to 0.95	By-product of drinking water disinfection
Dibromoacetic Acid	ppb	0.42	ND to 1.5	By-product of drinking water disinfection
Dichloroacetic Acid	ppb	3.86	ND to 12	By-product of drinking water disinfection
Monobromoacetic Acid	ppb	0.01	ND to 0.34	By-product of drinking water disinfection
Total Haloacetic Acids	ppb	7.50	0.55 to 23	By-product of drinking water disinfection
Total Haloacetic Acids - Br	ppb	3.05	ND to 6.9	By-product of drinking water disinfection
Total Haloacetic Acids- UCMR4	ppb	10.15	0.96 to 28	By-product of drinking water disinfection
Trichloroacetic Acid	ppb	3.22	ND to 11	By-product of drinking water disinfection
4 - Manganese is regulated as a secondary contaminant with a secondary maximum contaminant level of 50 ppb	as a secondary co	ntaminant with a sec	condary maximum o	ontaminant level of 50 ppb

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