



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2024 TO 12/31/2024

Griffith Treatment Plant Finished Water

Date Report Generated: 1/10/2025

Parameter	MCL ¹	Units ²	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Quant Limit ³
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	48	33	46	47	56	68	80	85	85	80	79	-	0
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Total		mg/L	48	33	46	47	56	68	80	85	85	80	79	-	0
Bromate ⁴	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5	BQL	BQL	BQL	5
Bromide		mg/L	BQL	BQL	BQL	0.01	BQL	0.01	0.33	0.02	0.03	0.03	0.02	-	0.01
Carbon Dioxide		mg/L	2	2	4	5	3	5	6	5	7	6	5	-	N/A
Chloride	250 S	mg/L	34.0	61.7	57.9	41.4	40.9	47.8	51.6	64.2	63.4	55.3	55.8	-	5.0
Chlorine, Free ⁴		mg/L	0.2	0.1	0.2	3.4	0.3	0.4	0.3	0.5	0.4	0.5	0.3	-	0.0
Chlorine, Total ⁴		mg/L	3.4	3.3	3.5	3.6	3.5	3.2	3.6	3.7	3.6	3.7	3.6	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	16.8	17.7	15.2	11.9	12.1	12.6	12.7	11.7	10.8	12.8	13.6	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	BQL**	0.7	0.7	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.6	-	0.2
Hardness, Calcium		mg/L	50	34	53	48	52	66	78	99	103	97	98	-	10
Hardness, Total		mg/L	70	49	74	68	72	89	106	131	136	128	128	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N) ⁴		mg/L	0.74	0.61	0.82	BQL	0.75	0.70	0.76	-	-	-	-	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.17	0.57	0.79	0.69	0.62	0.78	0.68	1.31	1.67	2.12	1.66	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01	0.01	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.6	7.6	7.4	7.3	7.6	7.4	7.4	7.5	7.4	7.4	7.5	-	N/A
Phosphate as Phosphorous		mg/L	0.44	0.45	0.40	0.41	0.46	0.44	0.43	0.45	0.48	0.47	0.47	-	0.10
Orthophosphate as PO ₄		mg/L	1.35	1.38	1.23	1.26	1.40	1.33	1.33	1.36	1.46	1.42	1.42	-	0.31
Solids, Total		mg/L	152	158	196	159	173	189	230	-	-	285	-	-	1
Solids, Total Dissolved	500 S	mg/L	110	172	194	142	180	206	208	-	-	252	-	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	BQL	-	-	1
Specific Conductivity		µmhos/cm	268	296	332	274	295	354	403	493	514	470	482	-	0
Sulfate	250 S	mg/L	22.7	10.0	18.2	17.7	19.4	25.4	29.3	48.1	51.6	52.0	52.7	-	5.0
Taste		Units	2	2	2	2	3	3	2	-	-	-	-	-	1
Temperature		°C	12.6	12.5	14.8	15.8	19.4	21.0	24.3	25.1	23.9	21.5	18.9	-	N/A
Threshold Odor Number	3 S	Units	7	4	4	10	1	1	8	-	-	-	-	-	0
Total Organic Carbon		mg/L	2.4	2.2	2.0	2.3	2.2	2.2	2.3	2.1	2.1	2.1	2.2	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.10	0.05	0.05	0.10	0.10	0.05	0.05	0.05	0.05	0.05	-	0.05

BQL = The lowest quantitation limit of all analyses for the particular parameter: Below Quantitation Limit

¹Environmental Protection Agency/Virginia Department of Health established levels for drinking water at points of entry to the water distribution system

P = Primary - enforceable, S = Secondary - non-enforceable, AL = Action Level on specific taps, MCL = Maximum Contaminant Level

²mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

³Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

⁴Monthly result composed from an average of parameter results for finished water points of entry to distribution system

* Analysis pending



Water Quality Laboratory

Metal Analyses

Period of 01/01/2024 TO 12/31/2024

Griffith Treatment Plant Finished Water

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Parameter	MCL ¹	Units ²	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Quant Limit ³
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	2000 P	µg/L	BQL	-	-	BQL	-	-	36.6	-	-	41.0	-	-	25.0
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium		mg/L	18.7	-	-	16.7	-	-	29.6	-	-	38.4	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium		mg/L	5.0	-	-	4.7	-	-	7.2	-	-	7.7	-	-	1.0
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Mercury	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	4.0	-	-	2.7	-	-	4.8	-	-	7.7	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	4.3	-	-	3.4	-	-	3.1	-	-	3.6	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	22.6	35.7	31.9	24.0	28.3	31.7	35.6	40.9	44.2	39.3	39.2	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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- Not sampled

* Analysis pending