



Water Quality Laboratory

Inorganics Analyses

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

Distribution Site Representing Griffith Treatment Plant

Date Report Generated: 1/10/2025

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	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 <sup>3</sup>
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	47	32	46	48	56	67	80	86	85	81	80	-	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	47	32	46	48	56	67	80	86	85	81	80	-	0
Bromide		mg/L	BQL	BQL	BQL	0.02	BQL	0.01	0.02	0.02	0.03	0.03	0.03	-	0.01
Carbon Dioxide		mg/L	2	2	3	5	3	4	5	5	7	6	5	-	N/A
Chloride	250 S	mg/L	34.9	61.7	58.0	41.6	41.2	47.7	51.7	64.1	63.7	55.5	55.8	-	5.0
Chlorine, Free		mg/L	0.1	0.1	0.1	3.1	0.3	0.3	0.3	0.4	0.3	0.4	0.3	-	0.0
Chlorine, Total		mg/L	3.0	3.1	3.2	3.4	3.2	3.2	3.4	3.4	3.4	3.5	3.4	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	14.7	16.6	14.0	12.9	11.5	11.6	12.5	12.2	11.2	13.1	13.6	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	BQL	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.7	0.2
Hardness, Calcium		mg/L	50	35	54	49	52	66	78	99	105	98	99	-	10
Hardness, Total		mg/L	69	49	75	69	72	90	106	132	137	128	128	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.69	0.56	0.72	BQL	0.75	0.68	0.70	-	-	-	-	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.26	0.57	0.80	0.68	0.62	0.79	0.68	1.39	1.71	2.12	1.67	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.03	0.01	BQL	BQL	BQL	BQL	BQL	0.01	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.6	7.6	7.5	7.3	7.6	7.5	7.5	7.5	7.4	7.4	7.5	-	N/A
Phosphate as Phosphorous		mg/L	0.40	0.45	0.40	0.41	0.45	0.43	0.43	0.44	0.45	0.46	0.47	-	0.10
Orthophosphate as PO <sub>4</sub>		mg/L	1.22	1.38	1.23	1.25	1.38	1.32	1.31	1.36	1.39	1.40	1.43	-	0.31
Solids, Total		mg/L	144	156	191	160	165	206	233	-	-	282	-	-	1
Solids, Total Dissolved	500 S	mg/L	126	162	186	156	178	210	220	-	-	252	-	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	BQL	-	-	1
Specific Conductivity		µmhos/cm	270	297	332	277	295	351	404	496	517	472	477	-	0
Sulfate	250 S	mg/L	23.2	10.0	18.2	17.8	19.5	25.3	29.3	48.0	52.3	52.1	52.7	-	5.0
Taste		Units	2	2	2	2	3	3	3	-	-	-	-	-	1
Temperature		°C	9.2	7.4	11.1	13.5	18.0	19.9	26.1	26.2	24.6	21.2	17.8	-	N/A
Threshold Odor Number	3 S	Units	7	3	3	12	5	7	7	-	-	-	-	-	0
Total Organic Carbon		mg/L	2.4	2.3	2.1	2.1	2.2	2.3	2.3	2.0	2.0	2.0	2.2	-	0.5
Turbidity	≤ 5 P	NTU	0.15	0.15	0.10	0.10	0.05	0.10	0.10	0.05	0.05	0.05	0.10	-	0.05

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

<sup>1</sup>Environmental 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

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

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

- Not sampled

\* Analysis pending



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Metal Analyses

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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	-	-	37.6	-	-	39.3	-	-	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	19.4	-	-	17.0	-	-	28.5	-	-	38.3	-	-	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	28.1	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	5.1	-	-	4.7	-	-	6.8	-	-	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	4.2	-	-	2.8	-	-	4.8	-	-	7.6	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	4.2	-	-	3.4	-	-	3.1	-	-	3.5	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	23.5	34.6	31.4	23.9	28.0	32.6	34.1	40.9	43.9	39.0	39.1	-	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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