Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2023 TO 12/31/2023

Griffith Treatment Plant Finished Water

Date Report Generated: 1/10/2025

Parameter	MCL[1]	Units[2]	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Quant Limit[3]
Aggressive Index Number		Units	10	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	36	56	46	61	63	68	74	82	84	72	76	-	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	36	56	46	61	63	68	74	82	84	72	76	-	0
Bromate[4]	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	5	BQL	BQL	BQL	BQL	BQL	5
Bromide		mg/L	BQL	0.01	BQL	0.01	BQL	BQL	0.01	0.01	0.02	0.02	0.03	-	0.01
Carbon Dioxide		mg/L	3	4	4	4	6	4	5	5	7	5	4	-	N/A
Chloride	250 S	mg/L	31.1	43.7	37.5	43.2	41.0	40.1	46.9	48.4	52.0	48.2	50.9	-	5.0
Chlorine, Free[4]		mg/L	0.1	0.1	0.1	3.5	3.4	3.5	0.3	0.3	0.3	0.3	0.3	-	0.0
Chlorine, Total[4]		mg/L	3.3	3.3	3.4	3.6	3.6	3.7	3.7	3.7	3.6	3.7	3.7	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	14.3	17.7	16.4	16.0	13.6	13.7	14.9	11.0	14.6	16.0	14.1	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.6	0.7	0.6	0.7	0.6	0.7	0.8	0.7	0.7	0.8	0.7	-	0.2
Hardness, Calcium		mg/L	31	63	48	70	67	62	74	80	89	88	99	-	10
Hardness, Total		mg/L	45	87	68	96	92	86	99	106	113	115	126	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)[4]		mg/L	1.19	0.66	0.71	BQL	BQL	BQL	0.86	0.82	0.83	0.78	0.76	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	0.71	1.51	0.92	1.04	0.85	0.67	0.92	1.00	0.98	1.93	2.20	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.5	7.4	7.5	7.3	7.5	7.5	7.5	7.4	7.5	7.6	-	N/A
Phosphate as Phosphorous		mg/L	0.48	0.44	0.48	0.49	0.47	0.44	0.48	0.45	0.49	0.44	0.44	-	0.10
Orthophosphate as PO_4		mg/L	1.47	1.35	1.45	1.50	1.44	1.33	1.46	1.36	1.48	1.33	1.34	-	0.31
Solids, Total		mg/L	97	200	161	208	181	171	202	241	266	237	259	-	1
Solids, Total Dissolved	500 S	mg/L	106	176	164	178	188	196	242	250	238	258	284	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	216	338	276	354	339	334	389	412	443	420	452	-	0
Sulfate	250 S	mg/L	13.6	31.0	20.1	33.3	30.8	28.1	37.4	37.8	43.1	46.0	55.6	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	2	-	1
Temperature		°C	12.6	11.1	13.1	16.0	17.0	20.3	23.0	23.5	24.4	20.6	17.9	-	N/A
Threshold Odor Number	3 S	Units	7	4	9	10	7	6	3	6	1	8	1	-	0
Total Organic Carbon		mg/L	2.2	1.8	2.1	1.8	2.0	2.4	2.1	2.0	1.9	3.1	2.2	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.05	0.05	0.10	0.05	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

[1]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

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

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

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

* Analysis pending

Fairfax Water

Water Quality Laboratory

Metal Analyses

Period of 01/01/2023 TO 12/31/2023

Griffith Treatment Plant Finished Water

Date Report Generated: 1/10/2025

Parameter	MCL[1]	Units[2]	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	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	-	-	30.7	-	-	31.0	-	-	30.0	-	-	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	12.3	-	-	28.5	-	-	28.9	-	-	30.6	-	-	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	3.6	-	-	7.3	-	-	7.1	-	-	6.7	-	-	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	3.7	-	-	4.6	-	-	5.7	-	-	6.9	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	3.0	-	-	2.1	-	-	2.7	-	-	3.1	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	19.4	25.6	22.9	27.4	25.9	27.7	33.8	35.6	39.9	34.5	34.4	-	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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[2]mg/L = milligrams per liter, µg/L = micrograms per liter

[3]Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending