Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2022 TO 12/31/2022

Distribution Site Representing Griffith Treatment Plant

Date Report Generated: 1/04/2023

Parameter	MCL[1]	Units[2]	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Quant Limit[3]
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	68	51	49	57	43	57	69	70	77	72	74	-	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	68	51	49	57	43	57	69	70	77	72	74	-	0
Bromide		mg/L	0.03	0.02	0.02	0.02	BQL	0.01	0.02	0.01	0.01	0.01	0.01	-	0.01
Carbon Dioxide		mg/L	4	5	2	3	3	6	7	3	5	4	6	-	N/A
Chloride	250 S	mg/L	55.5	129.8	85.0	81.3	44.7	47.2	48.1	44.2	47.0	48.1	49.3	-	5.0
Chlorine, Free		mg/L	0.0	0.1	0.1	3.1	3.1	2.9	0.1	0.2	0.2	0.3	0.1	-	0.0
Chlorine, Total		mg/L	3.3	3.5	3.3	3.4	3.3	3.1	3.1	2.9	2.9	3.3	2.8	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	16.5	16.1	13.5	14.7	16.4	12.9	13.8	11.8	13.5	12.1	15.3	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.6	0.2
Hardness, Calcium		mg/L	81	62	63	67	38	47	63	57	68	81	84	-	10
Hardness, Total		mg/L	109	89	87	96	54	66	85	78	91	107	113	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.75	0.76	0.76	BQL	BQL	BQL	0.72	0.71	0.68	0.71	0.64	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.71	1.01	1.45	0.96	0.58	0.94	1.43	0.93	0.96	1.86	1.76	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01	0.02	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.5	7.3	7.6	7.6	7.4	7.3	7.3	7.6	7.5	7.6	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.44	0.47	0.45	0.48	0.48	0.46	0.46	0.46	0.45	0.44	0.47	-	0.10
Orthophosphate as PO_4		mg/L	1.34	1.45	1.37	1.47	1.45	1.40	1.41	1.41	1.37	1.35	1.42	-	0.31
Solids, Total		mg/L	244	323	255	249	149	166	233	211	219	245	252	-	1
Solids, Total Dissolved	500 S	mg/L	228	244	224	236	126	138	152	188	212	224	248	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	429	561	445	446	262	298	368	344	378	414	429	-	0
Sulfate	250 S	mg/L	44.8	23.4	26.1	30.0	13.3	16.8	27.2	21.7	26.7	40.5	44.5	-	5.0
Taste		Units	3	2	2	2	2	2	2	2	1	2	2	-	1
Temperature		°C	7.7	6.5	9.6	12.8	16.6	20.6	23.5	25.4	24.4	20.4	16.5	-	N/A
Threshold Odor Number	3 S	Units	1	6	6	6	8	6	1	1	12	6	6	-	0
Total Organic Carbon		mg/L	2.1	2.1	2.3	1.8	2.4	2.4	2.4	2.1	2.0	2.3	2.0	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.10	0.15	0.20	0.15	0.10	0.05	0.05	0.10	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

- Not sampled

* Analysis pending

Fairfax Water

Water Quality Laboratory

Metal Analyses

Period of 01/01/2022 TO 12/31/2022

Distribution Site Representing Griffith Treatment Plant

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Parameter	MCL[1]	Units[2]	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	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	32.0	-	-	32.4	-	-	37.7	-	-	32.6	-	-	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	31.7	-	-	26.1	-	-	25.2	-	-	32.1	-	-	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	7.6	-	-	6.9	-	-	6.0	-	-	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	6.5	-	-	4.5	-	-	5.1	-	-	6.9	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	3.2	-	-	2.5	-	-	3.8	-	-	3.8	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	33.7	64.5	45.6	42.8	27.0	30.3	33.1	32.6	33.5	33.8	32.0	-	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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