Fairfax Water

Water Quality Laboratory

Inorganics Analyses

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

Distribution Site Representing Washington Aqueduct Service Area

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	11	12	11	11	11	12	12	12	11	12	12	-	N/A
Alkalinity, Bicarbonate		mg/L	74	73	67	68	60	74	87	77	77	85	102	-	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	74	73	67	68	60	74	87	77	77	85	102	-	0
Bromide		mg/L	BQL	BQL	BQL	BQL	BQL	0.01	BQL	0.01	0.02	0.02	0.02	-	0.01
Carbon Dioxide		mg/L	4	3	3	3	3	3	3	3	4	3	5	-	N/A
Chloride	250 S	mg/L	33.1	35.8	28.2	28.0	27.3	30.8	34.2	34.1	36.2	34.8	38.4	-	5.0
Chlorine, Free		mg/L	0.1	0.1	2.9	2.7	2.2	0.3	0.3	0.2	0.2	0.1	0.2	-	0.0
Chlorine, Total		mg/L	3.4	3.5	3.0	2.8	2.5	3.3	3.0	3.2	3.0	3.3	3.4	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	11.9	11.6	11.3	10.2	10.1	8.8	7.7	7.8	7.8	9.6	10.6	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.6	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	-	0.2
Hardness, Calcium		mg/L	87	87	82	82	70	89	97	83	81	103	120	-	10
Hardness, Total		mg/L	115	119	111	110	95	121	134	123	133	149	172	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.83	0.89	BQL	BQL	BQL	0.83	0.90	0.88	0.96	0.92	0.88	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	2.32	2.17	1.42	1.16	1.05	0.51	0.54	0.26	BQL	0.36	0.37	-	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	7.6	7.7	7.6	7.6	7.6	7.7	7.7	7.7	7.6	7.7	7.6	-	N/A
Phosphate as Phosphorous		mg/L	1.02	0.81	0.86	0.86	0.81	0.71	0.81	0.73	0.79	0.74	0.73	-	0.10
Orthophosphate as PO_4		mg/L	3.12	2.46	2.64	2.63	2.46	2.16	2.46	2.22	2.39	2.27	2.23	-	0.31
Solids, Total		mg/L	198	209	211	188	160	199	224	226	269	241	277	-	1
Solids, Total Dissolved	500 S	mg/L	182	180	178	186	168	198	178	210	204	228	290	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	354	356	325	321	303	351	387	376	409	414	468	-	0
Sulfate	250 S	mg/L	34.6	35.3	37.3	36.4	36.7	42.5	50.3	50.9	62.5	61.6	68.4	-	5.0
Taste		Units	4	3	3	3	2	3	3	2	3	2	3	-	1
Temperature		°C	7.7	8.3	10.7	16.4	17.5	22.8	27.5	26.3	26.8	20.0	14.4	-	N/A
Threshold Odor Number	3 S	Units	6	4	16	7	6	8	4	7	6	6	1	-	0
Total Organic Carbon		mg/L	1.6	1.5	1.5	1.4	1.8	1.7	1.8	1.8	1.8	2.9	1.6	-	0.5
Turbidity	≤ 5 P	NTU	0.15	0.10	0.05	0.05	0.05	0.30	0.15	0.10	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

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Metal Analyses

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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	-	-	30.8	-	-	74.1	-	-	55.1	-	-	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	28.9	-	-	33.3	-	-	41.9	-	-	37.4	-	-	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	34.3	-	-	33.6	-	-	38.8	-	-	36.5	-	-	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	7.1	-	-	7.8	-	-	10.0	-	-	11.2	-	-	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	2.8	-	-	2.3	-	-	3.1	-	-	3.6	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	3.5	-	-	1.6	-	-	2.8	-	-	1.5	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	19.3	19.2	17.3	17.9	19.2	17.7	21.5	22.5	26.8	23.7	25.4	-	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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