Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2020 TO 12/31/2020

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 12/10/2020

Parameter	MCL[1]	Units[2]	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Quant Limit[3]
Aggressive Index Number		Units	11	11	11	11	11	11	11	12	11	11	12	-	N/A
Alkalinity, Bicarbonate		mg/L	78	84	74	72	55	75	87	115	91	104	116	-	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	78	84	74	72	55	75	87	115	91	104	116	-	0
Bromide		mg/L	0.03	0.02	0.01	0.01	BQL	BQL	0.01	0.01	0.02	0.02	0.02	-	0.01
Carbon Dioxide		mg/L	8	5	7	6	4	5	7	7	7	10	9	-	N/A
Chloride	250 S	mg/L	23.0	19.0	18.4	18.0	20.8	14.7	20.5	22.2	18.7	24.1	22.4	-	5.0
Chlorine, Free		mg/L	0.1	0.3	3.0	3.1	3.1	2.7	0.3	0.3	0.4	0.2	0.2	-	0.0
Chlorine, Total		mg/L	3.5	3.5	3.3	3.3	3.4	2.9	3.6	3.2	4.0	3.2	3.7	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	15.4	14.0	12.3	12.8	13.0	11.4	11.4	11.1	12.3	12.5	14.0	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.2
Hardness, Calcium		mg/L	91	94	84	79	52	74	86	92	92	102	112	-	10
Hardness, Total		mg/L	123	123	111	110	71	99	121	133	126	145	158	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.82	0.85	BQL	BQL	BQL	BQL	0.85	0.70	0.97	0.86	0.83	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.35	1.44	0.95	0.90	0.86	0.91	0.59	0.71	0.88	0.76	0.83	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.02	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.02	-	0.01
pH	6.5 - 8.5 S	Units	7.3	7.5	7.3	7.4	7.4	7.5	7.4	7.5	7.4	7.3	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.39	0.39	0.40	0.39	0.42	0.41	0.41	0.40	0.43	0.41	0.42	-	0.10
Orthophosphate as PO_4		mg/L	1.20	1.20	1.22	1.20	1.29	1.24	1.24	1.21	1.32	1.25	1.29	-	0.31
Solids, Total		mg/L	202	183	167	168	125	155	168	204	203	235	233	-	1
Solids, Total Dissolved	500 S	mg/L	204	186	208	140	112	152	170	222	182	238	246	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	323	311	292	281	214	263	320	343	319	386	401	-	0
Sulfate	250 S	mg/L	39.6	37.2	37.7	34.7	12.0	25.6	33.7	33.4	38.8	47.8	48.7	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	1	2	-	1
Temperature		°C	5.5	7.7	12.3	16.0	16.1	25.6	28.5	28.3	26.1	21.8	15.5	-	N/A
Threshold Odor Number	3 S	Units	7	7	8	1	12	8	6	12	8	8	8	-	0
Total Organic Carbon		mg/L	1.3	1.0	1.1	1.1	1.7	1.5	1.3	1.3	1.4	1.1	1.2	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.10	0.10	0.10	0.15	0.15	0.15	0.10	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

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Metal Analyses

Period of 01/01/2020 TO 12/31/2020

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Aluminum	50 - 200 S	µg/L	BQL	-	-	25.3	-	-	74.4	-	-	39.9	-	-	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	28.6	-	-	35.3	-	-	42.8	-	-	40.2	-	-	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	34.6	-	-	32.2	-	-	33.5	-	-	40.4	-	-	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	8.3	-	-	7.3	-	-	8.8	-	-	12.9	-	-	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	2.1	-	-	1.9	-	-	2.4	-	-	2.8	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	2.0	-	-	1.3	-	-	3.4	-	-	1.2	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	13.4	11.3	11.7	11.2	12.4	9.2	12.4	14.7	13.2	15.5	14.9	-	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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