Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2015 TO 12/31/2015

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 12/28/2015

Parameter	MCL[1]	Units[2]	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Quant Limit[3]
Aggressive Index Number		Units	11	12	11	11	11	11	11	11	11	11	12	-	N/A
Alkalinity, Bicarbonate		mg/L	87	90	47	66	82	96	83	94	94	85	96	-	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	87	90	47	66	82	96	83	94	94	85	96	-	0
Bromide		mg/L	0.03	0.03	0.04	0.03	0.01	0.01	0.02	0.03	0.04	0.01	0.02	-	0.01
Carbon Dioxide		mg/L	14	4	1	4	5	8	8	9	7	5	5	-	N/A
Chloride	250 S	mg/L	31.4	32.4	72.6	77.7	36.7	27.6	23.6	30.9	37.1	30.2	23.8	-	5.0
Chlorine, Free		mg/L	0.0	0.1	0.2	3.3	3.3	2.9	0.3	0.3	0.3	0.2	0.2	-	0.0
Chlorine, Total		mg/L	3.3	3.5	3.7	3.5	3.4	3.1	3.4	3.7	3.6	3.8	3.8	-	0.0
Color	15 S	Units	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0
Dissolved Oxygen		mg/L	16.4	15.9	14.2	13.8	11.8	14.0	10.7	11.6	11.9	13.8	13.4	-	0.0
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.8	0.7	0.8	0.7	0.8	0.7	0.8	0.8	0.7	0.6	0.6	0.2
Hardness, Calcium		mg/L	103	108	70	79	81	101	95	97	108	80	100	-	10
Hardness, Total		mg/L	146	144	94	110	112	138	123	143	151	104	135	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.88	0.96	0.91	BQL	BQL	BQL	0.66	0.73	0.74	0.96	0.90	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.33	1.30	1.06	0.63	0.91	0.84	1.27	0.66	0.74	1.23	0.56	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.01	0.02	BQL	BQL	BQL	BQL	0.02	BQL	BQL	BQL	0.02	-	0.01
pH	6.5 - 8.5 S	Units	7.1	7.7	7.8	7.5	7.5	7.4	7.3	7.3	7.4	7.5	7.6	-	N/A
Phosphate as Phosphorous		mg/L	0.39	0.39	0.36	-	0.37	0.37	0.34	0.34	0.30	0.32	0.31	-	0.10
Orthophosphate as PO_4		mg/L	1.20	1.19	1.10	-	1.14	1.14	1.05	1.03	0.93	0.97	0.93	-	0.31
Solids, Total		mg/L	230	215	237	242	198	-	218	241	268	188	215	-	1
Solids, Total Dissolved	500 S	mg/L	234	-	242	188	204	-	210	264	262	192	218	-	1
Solids, Total Suspended		mg/L	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	383	380	421	435	377	375	338	403	476	330	370	-	0
Sulfate	250 S	mg/L	43.9	46.0	21.2	15.4	20.3	41.0	41.1	51.0	58.7	17.2	44.6	-	5.0
Taste		Units	2	1	2	2	3	2	2	2	2	2	2	-	1
Temperature		°C	4.0	4.0	4.7	13.0	19.2	24.5	26.0	28.1	27.2	18.4	14.6	-	N/A
Threshold Odor Number	3 S	Units	1	1	10	4	8	1	4	1	7	7	8	-	0
Total Organic Carbon		mg/L	1.5	1.6	-	1.6	1.5	1.8	1.5	1.4	1.5	1.9	1.6	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.10	0.10	0.10	0.10	0.10	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

- Not sampled

* Analysis pending

Fairfax Water

Water Quality Laboratory

Metal Analyses

Period of 01/01/2015 TO 12/31/2015

Distribution Site Representing Corbalis Treatment Plant

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Parameter	MCL[1]	Units[2]	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Quant Limit[3]
Aluminum	50 - 200 S	µg/L	BQL	-	-	39.3	-	-	51.8	-	-	45.8	-	-	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	36.7	-	-	40.8	-	-	43.1	-	-	27.4	-	-	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	42.4	-	-	30.6	-	-	37.7	-	-	31.8	-	-	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	9.6	-	-	8.8	-	-	7.7	-	-	7.9	-	-	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	-	-	-	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	2.3	-	-	2.3	-	-	2.4	-	-	3.2	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	BQL	-	-	1.8	-	-	3.2	-	-	4.9	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	19.6	19.5	42.1	38.9	20.4	16.0	13.9	19.1	21.8	18.2	15.9	-	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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