Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2013 TO 12/31/2013
Distribution Site Representing Corbalis Treatment Plant

Parameter	MCL [1]	Units [2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit [3]	# of Tests
Aggressive Index Number		Units	11	11	11	11	11	-	11	11	11	11	12	-	11	12	11	-	10
Alkalinity, Bicarbonate		mg/L	78	88	65	70	74	-	97	96	93	83	121	-	86	121	65	-	10
Alkalinity, Carbonate		mg/L	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	-	10
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	-	10
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	-	10
Alkalinity, Total		mg/L	78	88	65	70	74	-	97	96	93	83	121	-	86	121	65	-	10
Bromide		mg/L	0.02	0.02	0.02	0.02	0.01	-	0.01	0.01	0.03	0.02	0.04	-	0.02	0.04	0.01	0.01	10
Carbon Dioxide		mg/L	8	11	7	7	7	-	12	8	9	8	8	-	9	12	7	-	10
Chloride	250.0 S	mg/L	22.5	20.7	19.1	18.0	25.0	-	23.3	22.9	29.7	39.9	31.6	-	25.3	39.9	18.0	5.0	10
Chlorine, Free		mg/L	0.0	0.0	0.0	3.2	3.4	-	0.3	0.2	0.3	0.1	0.0	-	0.8	3.4	0.0	0.0	10
Chlorine, Total		mg/L	2.9	3.2	3.3	3.3	3.5	-	3.3	3.4	3.2	3.5	3.2	-	3.3	3.5	2.9	0.0	10
Color	15 S	Units	0	2	0	1	0	-	1	1	0	1	1	-	1	2	0	0	10
Dissolved Oxygen		mg/L	14.8	15.3	14.2	12.0	12.5	-	10.3	11.9	12.8	13.5	16.7	-	13.4	16.7	10.3	0.0	10
Fluoride	4.0/2.0 P/S	mg/L	0.6	0.7	0.7	0.7	0.7	-	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.6	0.2	11
Hardness, Calcium		mg/L	96	104	76	76	69	-	96	101	92	79	135	-	92	135	69	-	10
Hardness, Total		mg/L	129	141	101	103	95	-	139	137	140	115	185	-	129	185	95	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	0.05	1
N, Ammonia (Ammonia as N)		mg/L	0.98	0.86	0.93	BQL	BQL	-	0.66	0.74	0.65	-	0.76	-	0.62	0.98	BQL	0.20	9
N, Nitrate (Nitrate as N)	10 P	mg/L	1.3	1.6	1.1	0.9	1.0	-	0.9	0.9	0.4	0.5	1.1	-	1.0	1.6	0.4	0.2	10
N, Nitrite (Nitrite as N)	1 P	mg/L	-	0.01	0.01	BQL	BQL	-	BQL	BQL	BQL	BQL	0.01	-	BQL	0.01	BQL	0.01	9
pH	6.5-8.5 S	Units	7.3	7.2	7.3	7.3	7.3	-	7.2	7.4	7.3	7.3	7.5	-	7.3	7.5	7.2	-	10
Phosphate as Phosphorous		mg/L	0.30	0.36	0.35	0.37	0.32	-	0.31	0.29	0.33	0.32	0.34	-	0.33	0.37	0.29	0.10	10
Orthophosphate as PO_4		mg/L	0.92	1.11	1.05	1.13	0.99		0.95	0.89	1.01	0.97	1.04	-	1.01	1.13	0.89	0.31	10
Solids, Total		mg/L	213	212	147	163	179	-	223	209	233	228	290	-	210	290	147	1	10
Solids, Total Dissolved	500 S	mg/L	-	254	110	150	-	-	258	238	232	154	292	-	211	292	110	1	8
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	1	10
Specific Conductivity		µmhos/cm	345	363	278	275	270	-	384	363	386	345	465	-	347	465	270	0	10
Sulfate	250.0 S	mg/L	52.4	47.7	33.6	35.0	18.0	-	43.9	43.3	48.0	25.9	65.4	-	41.3	65.4	18.0	5.0	10
Taste		Units	3	2	2	3	2	-	2	2	3	2	2	-	2	3	2	1	10
Temperature		°C	6.8	5.4	7.2	15.8	20.4	-	27.8	25.6	23.3	19.8	9.7	-	16.2	27.8	5.4	-	10
Threshold Odor Number	3 S	Units	1	3	1	6	8	-	1	1	3	3	3	-	3	8	1	0	10
Total Organic Carbon		mg/L	1.6	1.5	1.5	1.3	1.3	-	1.8	2.1	1.8	2.1	1.7	-	1.7	2.1	1.3	0.5	10
Turbidity	≤ 5 P	NTU	0.10	0.10	0.10	0.10	0.10	-	0.15	0.10	0.05	0.10	0.10	-	0.10	0.15	0.05	0.05	10

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

Report No: 012314140212

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METAL ANALYSES
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Parameter	MCL [1]	Units [2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit [3]	# of Tests
Aluminum	50-200 S	µg/L	BQL	-	-	25.3	-	-	63.6	-	-	28.3	-	-	29.3	63.6	BQL	25.0	4
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Barium	2000 P	µg/L	35.5	-	-	37.6	-	-	48.6	-	-	29.4	-	-	37.8	48.6	29.4	25.0	4
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Calcium		mg/L	39.7	-	-	31.5	-	-	39.6	-	-	29.4	-	-	35.1	39.7	29.4	1.0	4
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	10
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	10
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	9.5	-	-	6.9	-	-	10.3	-	-	9.1	-	-	9.0	10.3	6.9	1.0	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	10
Mercury	2 P	µg/L	BQL	-	-	-	-	-	BQL	-	-	-	-	-	BQL	BQL	BQL	0.50	2
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.3	-	-	1.8	-	-	3.1	-	-	3.4	-	-	2.7	3.4	1.8	1.0	4
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Silicon		mg/L	1.4	-	-	1.8	-	-	2.5	-	-	1.6	-	-	1.8	2.5	1.4	1.0	4
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Sodium		mg/L	15.8	13.2	11.2	10.7	13.4	-	14.9	14.5	17.5	21.9	20.5	-	15.4	21.9	10.7	1.0	10
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	25.0	4

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