Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2014 TO 12/31/2014
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	12	12	-	11	12	11	-	8
Alkalinity, Bicarbonate		mg/L	109	45	70	83	-	-	98	-	110	120	132	-	96	132	45	0	8
Alkalinity, Carbonate		mg/L	0	0	0	0	-	-	0	-	0	0	0	-	0	0	0	0	8
Alkalinity, Hydroxyl		mg/L	0	0	0	0	-	-	0	-	0	0	0	-	0	0	0	0	8
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	-	-	0	-	0	0	0	-	0	0	0	0	8
Alkalinity, Total		mg/L	109	45	70	83	-	-	98	-	110	120	132	-	96	132	45	0	8
Bromide		mg/L	0.03	0.02	0.02	BQL	-	-	0.01	-	0.03	0.02	0.03	-	0.02	0.03	BQL	0.01	8
Carbon Dioxide		mg/L	22	7	11	7	-	-	8	-	11	4	5	-	9	22	4	-	8
Chloride	250.0 S	mg/L	24.8	35.9	19.7	20.2	-	-	32.2	-	34.6	27.6	32.3	-	28.4	35.9	19.7	5.0	8
Chlorine, Free		mg/L	0.0	0.0	0.0	3.0	-	-	0.1	-	0.2	0.2	0.1	-	0.5	3.0	0.0	0.0	8
Chlorine, Total		mg/L	2.7	2.7	3.1	3.5	-	-	3.0	-	3.5	3.7	3.6	-	3.2	3.7	2.7	0.0	8
Color	15 S	Units	1	2	3	1	-	-	1	-	0	2	2	-	2	3	0	0	8
Dissolved Oxygen		mg/L	16.8	15.0	16.2	13.1	-	-	11.3	-	13.6	13.1	14.9	-	14.3	16.8	11.3	0.0	8
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.6	0.7	0.7	0.7	-	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.2	11
Hardness, Calcium		mg/L	119	60	84	88	-	-	82	-	112	113	132	-	99	132	60	10	8
Hardness, Total		mg/L	163	81	107	114	-	-	124	-	170	155	172	-	136	172	81	10	8
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	0.05	1
N, Ammonia (Ammonia as N)		mg/L	0.78	0.78	0.83	BQL	-	-	0.65	-	0.93	0.83	0.77	-	0.70	0.93	BQL	0.20	8
N, Nitrate (Nitrate as N)	10 P	mg/L	2.02	1.31	1.09	1.03	-	-	0.79	-	0.90	0.84	0.83	-	1.10	2.02	0.79	0.20	8
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	0.01	8
pH	6.5-8.5 S	Units	7.0	7.1	7.1	7.4	-	-	7.4	-	7.3	7.8	7.7	-	7.4	7.8	7.0	-	8
Phosphate as Phosphorous		mg/L	0.31	0.32	0.31	0.34	-	-	0.32	-	0.31	0.28	0.30	-	0.31	0.34	0.28	0.10	8
Orthophosphate as PO_4		mg/L	0.95	0.98	0.94	1.05	-		0.96	-	0.95	0.86	0.93	-	0.95	1.05	0.86	0.31	8
Solids, Total		mg/L	241	166	189	197	-	-	215	-	271	255	280	-	227	280	166	1	8
Solids, Total Dissolved	500 S	mg/L	-	152	178	238	-	-	218	-	274	248	284	-	227	284	152	1	7
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	1	8
Specific Conductivity		µmhos/cm	412	282	282	290	-	-	338	-	442	415	478	-	367	478	282	0	8
Sulfate	250.0 S	mg/L	45.1	27.1	33.5	29.5	-	-	25.2	-	56.1	48.6	59.2	-	40.5	59.2	25.2	5.0	8
Taste		Units	3	2	2	4	-	-	1	-	2	1	2	-	2	4	1	1	8
Temperature		°C	1.3	4.8	6.9	14.5	-	-	26.8	-	21.7	16.4	12.0	-	13.1	26.8	1.3	-	8
Threshold Odor Number	3 S	Units	7	7	4	7	-	-	1	-	1	1	1	-	4	7	1	0	8
Total Organic Carbon		mg/L	1.4	1.4	1.5	1.5	-	-	1.9	-	1.4	1.9	1.9	-	1.6	1.9	1.4	0.5	8
Turbidity	≤ 5 P	NTU	0.10	0.05	0.05	0.10	-	-	0.15	-	0.15	0.10	0.10	-	0.10	0.15	0.05	0.05	8

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: 010915143705

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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	-	-	BQL	-	-	72.5	-	-	54.1	-	-	31.6	72.5	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	38.3	-	-	38.8	-	-	42.2	-	-	39.4	-	-	39.7	42.2	38.3	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	46.9	-	-	35.2	-	-	32.4	-	-	47.5	-	-	40.5	47.5	32.4	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	25.0	8
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	8
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	10.1	-	-	7.9	-	-	10.3	-	-	11.4	-	-	9.9	11.4	7.9	1.0	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	8
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	2.2	-	-	1.9	-	-	3.2	-	-	3.6	-	-	2.7	3.6	1.9	1.0	4
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Silicon		mg/L	2.4	-	-	1.4	-	-	3.5	-	-	1.4	-	-	2.2	3.5	1.4	1.0	4
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Sodium		mg/L	14.2	17.5	11.8	11.9	-	-	18.6	-	21.6	21.0	24.3	-	17.6	24.3	11.8	1.0	8
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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