Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2008 TO 12/31/2008
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	# of Tests
Aggressive Index Number		Units	11	12	11	11	11	11	11	11	11	12	12	12	11	12	11	-	12
Alkalinity, Bicarbonate		mg/L	96	80	79	91	67	77	113	114	111	108	116	106	97	116	67	-	12
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	12
Alkalinity, Total		mg/L	96	80	79	91	67	77	113	114	111	108	116	106	97	116	67	-	12
Bromide		mg/L	0.02	0.01	0.01	BQL	BQL	BQL	BQL	0.02	0.02	0.02	0.02	0.03	0.01	0.03	BQL	0.01	12
Carbon Dioxide		mg/L	6	2	12	18	8	24	23	23	11	7	5	7	12	24	2	-	12
Chloride	250.0 S	mg/L	36.5	29.9	33.3	37.8	20.8	24.9	26.9	29.8	31.3	29.4	31.3	35.3	30.6	37.8	20.8	5.0	12
Chlorine, Free		mg/L	0.1	0.0	0.1	3.2	3.0	2.9	0.4	0.2	0.3	0.1	0.2	0.1	0.9	3.2	0.0	0.0	12
Chlorine, Total		mg/L	3.7	2.8	3.4	3.4	3.4	3.0	3.3	3.1	3.3	3.1	3.2	3.2	3.2	3.7	2.8	0.0	12
Color	15 S	Units	0	0	1	1	0	2	2	1	0	0	0	1	1	2	0	0	12
Dissolved Oxygen		mg/L	19.0	--	13.5	12.5	12.2	10.7	9.6	12.7	12.8	--	14.4	--	13.0	19.0	9.6	0.0	9
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.8	0.7	0.7	0.9	0.8	1.0	0.8	1.1	0.9	0.9	0.9	0.9	1.1	0.7	0.2	12
Hardness, Calcium		mg/L	94	77	80	84	75	85	94	108	108	98	110	96	92	110	75	-	12
Hardness, Total		mg/L	132	107	104	115	83	102	143	158	166	158	162	163	133	166	83	-	12
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	0.78	0.80	--	BQL	BQL	BQL	0.75	1.09	--	--	1.03	0.83	0.59	1.09	BQL	0.20	9
N, Nitrate (Nitrate as N)	10 P	mg/L	1.2	1.3	1.0	0.7	1.1	0.8	0.8	0.7	1.0	0.5	0.4	0.5	0.8	1.3	0.4	0.2	12
N, Nitrite (Nitrite as N)	1 P	mg/L	0.01	BQL	0.01	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.01	BQL	0.01	BQL	0.01	12
pH	6.5-8.5 S	Units	7.5	8.0	7.1	7.0	7.2	6.8	7.0	7.0	7.3	7.5	7.7	7.5	7.3	8.0	6.8	-	12
Phosphate as Phosphorous		mg/L	0.58	0.60	0.62	0.50	0.55	0.53	0.45	0.45	0.33	0.34	--	0.38	0.48	0.62	0.33	0.20	11
Solids, Total		mg/L	223	196	190	200	173	201	228	254	258	225	249	231	219	258	173	1	12
Solids, Total Dissolved	500 S	mg/L	215	180	167	195	147	192	213	249	239	221	229	228	206	249	147	1	12
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	1	11
Specific Conductivity		µmhos/cm	354	313	296	353	239	284	382	432	394	404	--	404	350	432	239	0	11
Sulfate	250.0 S	mg/L	27.5	27.4	20.6	26.8	19.6	26.3	39.3	49.3	51.2	44.2	43.0	40.9	34.7	51.2	19.6	5.0	12
Taste		Units	2	2	2	2	2	2	2	2	2	3	2	3	2	3	2	1	12
Temperature		°C	7.8	5.7	10.0	15.0	18.3	21.6	29.5	26.0	23.0	15.6	13.2	6.8	16.0	29.5	5.7	-	12
Threshold Odor Number	3 S	Units	1	1	6	8	6	7	4	7	4	8	4	1	5	8	1	0	12
Total Organic Carbon		mg/L	2.1	2.1	1.9	2.5	1.9	1.5	2.2	2.3	2.1	2.3	2.4	2.0	2.1	2.5	1.5	0.5	12
Turbidity	≤5 P	NTU	0.10	0.10	0.05	0.25	0.10	0.10	0.10	0.10	0.10	0.25	0.10	0.15	0.13	0.25	0.05	0.00	12

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
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

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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	# of Tests
Aluminum	50-200 S	µg/L	34.4	--	--	BQL	--	--	70.5	--	--	40.7	--	--	36.4	70.5	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	37.3	--	--	46.2	--	--	47.6	--	--	35.8	--	--	41.7	47.6	35.8	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	37.3	--	--	32.4	--	--	39.6	--	--	41.1	--	--	37.6	41.1	32.4	4.0	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	BQL	BQL	25.0	12
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	60	12
Lead	15 AL	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	9.9	--	--	8.9	--	--	11.1	--	--	12.7	--	--	10.7	12.7	8.9	4.0	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	25.0	12
Mercury	2 P	µg/L	BQL	BQL	--	--	--	--	--	--	--	--	BQL	--	BQL	BQL	BQL	0.50	3
Nickel	100 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.6	--	--	2.4	--	--	3.1	--	--	3.7	--	--	3.0	3.7	2.4	0.5	4
Selenium	50 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	BQL	--	--	BQL	--	--	5	--	--	BQL	--	--	BQL	5	BQL	4	4
Silver	100 S	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	20.5	20.2	18.8	23.4	15.7	19.2	22.8	20.9	22.2	19.3	22.9	24.2	20.8	24.2	15.7	5.0	12
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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