Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2007 TO 12/31/2007
Corbalis Treatment Plant Finished Water

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	10	11	11	11	11	12	11	11	11	11	12	--	11	12	10	-	11
Alkalinity, Bicarbonate		mg/L	50	87	63	87	89	117	101	92	102	110	128	--	93	128	50	-	11
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	-	11
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	-	11
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	-	11
Alkalinity, Total		mg/L	50	87	63	87	89	117	101	92	102	110	128	--	93	128	50	-	11
Bromate	10 P	µg/L	BQL	--	BQL	BQL	BQL	--	BQL	--	--	--	BQL	--	BQL	BQL	BQL	5	20
Bromide		mg/L	BQL	0.02	BQL	BQL	0.01	0.01	0.02	BQL	0.02	0.02	BQL	--	BQL	0.02	BQL	0.01	11
Carbon Dioxide		mg/L	6	11	3	6	7	7	8	5	8	9	4	--	7	11	3	-	11
Chloride	250.0 S	mg/L	27.0	36.8	32.5	26.5	20.3	25.4	30.0	35.9	35.0	36.9	30.1	--	30.6	36.9	20.3	5.0	11
Chlorine, Free		mg/L	0.2	0.1	0.2	3.4	3.1	2.8	0.4	0.3	0.3	0.3	0.3	--	0.9	3.4	0.0	0.0	37
Chlorine, Total		mg/L	3.5	3.2	3.5	3.5	3.2	3.0	3.3	3.2	3.7	4.0	3.8	--	3.5	4.3	2.3	0.0	37
Color	15 S	Units	0	4	0	2	0	0	1	0	0	0	1	--	1	4	0	0	11
Dissolved Oxygen		mg/L	15.2	23.3	--	17.9	14.8	11.7	12.9	11.2	13.7	17.1	14.8	--	15.3	23.3	11.2	0.0	10
Fluoride	4.0/2.0 P/S	mg/L	0.8	0.7	1.0	0.8	0.6	0.9	0.9	0.8	1.2	1.0	0.8	--	0.9	1.2	0.6	0.2	11
Hardness, Calcium		mg/L	46	90	58	78	96	88	122	80	96	102	113	--	88	122	46	-	11
Hardness, Total		mg/L	70	128	87	111	135	140	156	128	143	155	164	--	129	164	70	-	11
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	1.02	0.87	0.86	BQL	--	BQL	0.93	0.73	0.72	0.77	0.70	--	0.66	1.23	BQL	0.05	36
N, Nitrate (Nitrate as N)	10 P	mg/L	0.8	1.5	1.2	1.0	0.9	0.9	0.2	0.3	0.5	BQL	1.0	0.8	0.8	1.5	BQL	0.2	14
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01	BQL	--	--	--	BQL	BQL	BQL	BQL	0.01	BQL	BQL	0.01	BQL	0.01	11
pH	6.5-8.5 S	Units	7.2	7.2	7.6	7.5	7.4	7.5	7.4	7.6	7.4	7.4	7.8	--	7.5	7.8	7.2	-	11
Phosphate as Phosphorous		mg/L	0.61	0.77	0.84	0.64	0.71	0.62	0.38	0.23	0.45	0.41	0.43	--	0.55	0.84	0.23	0.20	11
Solids, Total		mg/L	150	202	191	205	203	212	246	226	261	283	247	--	221	283	150	1	11
Solids, Total Dissolved	500 S	mg/L	133	192	202	--	204	241	--	217	236	269	227	--	213	269	133	1	9
Solids, Total Suspended		mg/L	BQL	BQL	--	BQL	--	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	1	8
Specific Conductivity		µmhos/cm	216	351	292	304	319	370	403	389	438	452	397	--	357	452	216	0	11
Sulfate	250.0 S	mg/L	13.5	21.5	15.7	16.3	44.3	33.9	51.0	49.9	50.2	58.8	35.6	--	35.5	58.8	13.5	5.0	11
Taste		Units	1	1	2	2	1	2	2	3	3	3	4	--	2	4	1	1	11
Temperature		°C	10.9	8.3	9.8	11.5	17.7	24.2	25.6	25.6	22.6	19.2	17.2	--	17.5	25.6	8.3	-	11
Threshold Odor Number	3 S	Units	3	7	7	10	9	1	1	6	5	5	6	--	5	10	1	0	11
Total Organic Carbon		mg/L	2.4	2.1	2.2	1.6	1.5	2.0	2.2	2.4	2.4	2.5	2.9	--	2.2	2.9	1.5	0.5	11
Turbidity	≤5 P	NTU	0.20	0.10	0.15	0.10	0.20	0.15	0.10	0.10	0.10	0.05	0.15	--	0.13	0.20	0.05	0.00	11

* Monthly result composed from an average of parameter results for Corbalis Treatment Plant finished water points of entry to distribution system.

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
PERIOD OF 01/01/2007 TO 12/31/2007
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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	BQL	--	--	41.2	--	--	45.9	--	--	33.5	--	--	30.2	45.9	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	26.6	--	--	32.7	--	--	41.2	--	--	40.7	--	--	35.3	41.2	26.6	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	--	--	--	31.8	--	--	36.0	--	--	40.6	--	--	36.1	40.6	31.8	0.5	3
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	25.0	11
Iron	300 S	µg/L	BQL	BQL	79	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	79	BQL	60	11
Lead	15 AL	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	5.1	--	--	8.2	--	--	13.3	--	--	13.8	--	--	10.1	13.8	5.1	0.5	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	11
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	2.0	--	--	1.9	--	--	3.1	--	--	3.8	--	--	2.7	3.8	1.9	0.5	4
Selenium	50 P	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	4	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	4	BQL	4	4
Silver	100 S	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	16.3	15.5	20.2	14.9	13.7	21.0	23.3	27.1	24.4	29.2	21.6	--	20.7	29.2	13.7	5.0	11
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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