Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2004 TO 12/31/2004
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	--	11	11	11	12	--	11	12	10	-	31
Alkalinity, Bicarbonate		mg/L	--	57	52	63	77	90	--	101	63	101	82	--	78	102	51	-	31
Alkalinity, Carbonate		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	31
Alkalinity, Hydroxyl		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	31
Alkalinity, Phenolphthalein		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	31
Alkalinity, Total		mg/L	--	57	52	63	77	90	--	101	63	101	82	--	78	102	51	-	31
Bromate	10 P	µg/L	BQL	--	--	BQL	--	--	BQL	BQL	--	BQL	--	--	BQL	BQL	BQL	5	17
Bromide		mg/L	--	BQL	0.01	BQL	0.01	BQL	--	BQL	BQL	BQL	BQL	--	BQL	0.02	BQL	0.01	31
Carbon Dioxide		mg/L	--	14	8	4	11	7	--	6	10	10	4	--	8	19	3	-	31
Chemical Oxygen Demand		mg/L	--	BQL	--	--	--	BQL	--	--	--	--	--	--	BQL	BQL	BQL	5.0	6
Chloride	250.0 S	mg/L	--	37.6	18.2	22.4	23.0	21.1	--	23.0	21.7	21.8	20.6	--	23.1	37.7	18.0	5.0	31
Chlorine, Free		mg/L	--	0.2	0.2	3.9	4.0	3.7	--	0.3	0.1	0.1	0.1	--	1.2	4.1	0.0	0.0	31
Chlorine, Total		mg/L	--	3.6	3.5	4.0	4.1	3.9	--	3.5	3.3	3.8	3.5	--	3.7	4.2	3.1	0.0	31
Color	15 S	Units	--	5	0	1	2	2	--	1	2	0	--	--	2	8	0	0	27
Dissolved Oxygen		mg/L	--	15.8	15.1	14.4	14.1	13.7	--	12.4	13.9	14.2	16.0	--	14.4	16.1	12.0	0.0	31
Fluoride	4.0/2.0 P/S	mg/L	--	0.9	0.9	0.9	0.9	1.0	--	0.9	0.9	0.8	0.8	--	0.9	1.0	0.7	0.2	31
Hardness, Calcium		mg/L	--	81	71	65	73	80	--	85	61	90	79	--	76	91	60	-	31
Hardness, Total		mg/L	--	103	92	96	101	110	--	124	82	135	--	--	106	141	81	-	27
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.050	3
N, Ammonia (Ammonia as N)		mg/L	--	1.34	0.59	--	BQL	BQL	--	0.98	0.99	1.14	--	--	0.76	1.45	BQL	0.05	24
N, Nitrate (Nitrate as N)	10 P	mg/L	--	1.4	1.4	1.2	0.6	1.2	--	1.2	1.1	1.1	1.1	1.2	1.1	1.4	0.6	0.2	35
N, Nitrite (Nitrite as N)	1 P	mg/L	--	0.01	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	0.02	BQL	0.01	31
pH	6.5-8.5 S	Units	--	6.9	7.1	7.5	7.2	7.4	--	7.5	7.1	7.3	7.7	--	7.3	7.7	6.8	-	31
Phosphate as Phosphorous		mg/L	--	0.97	0.67	0.67	0.51	0.57	--	0.51	0.62	0.42	0.49	--	0.59	1.75	0.14	0.02	31
Solids, Fixed		mg/L	--	135	135	136	148	145	--	176	131	169	169	--	151	194	117	1	31
Solids, Total		mg/L	--	220	210	223	236	235	--	272	192	225	250	--	230	291	174	1	31
Solids, Total Dissolved	500 S	mg/L	--	167	143	127	146	172	--	186	143	165	135	--	154	189	123	1	31
Solids, Total Suspended		mg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	1	31
Solids, Volatile		mg/L	--	84	75	87	89	90	--	96	61	56	--	--	79	125	33	1	27
Specific Conductivity		µmhos/cm	--	291	244	198	256	281	--	310	221	311	270	--	266	312	197	0	31
Sulfate	250.0 S	mg/L	--	29.1	31.6	15.6	16.2	17.1	--	21.0	15.7	19.1	23.9	--	20.9	31.9	14.6	5.0	31
Taste		Units	--	1	1	1	2	1	--	2	2	1	2	--	1	2	1	1	29
Temperature		°C	--	5.3	9.2	16.5	20.9	21.8	--	24.3	19.9	18.1	12.8	--	16.8	25.0	4.8	-	31
Threshold Odor Number	3 S	Units	--	10	4	12	7	8	--	7	6	9	2	--	7	14	1	1	31
Total Organic Carbon		mg/L	--	1.6	1.0	1.2	1.3	1.5	--	1.9	2.2	1.8	2.3	--	1.7	2.3	1.0	0.5	31
Turbidity	≤5 P	NTU	--	0.10	0.12	0.17	0.22	0.10	--	0.19	0.06	0.10	0.13	--	0.13	0.25	0.05	0.00	31

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
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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
Aluminum	50-200 S	µg/L	--	BQL	--	--	74	--	--	168	--	--	--	--	89	187	BQL	20	10
Antimony	6 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	10
Arsenic	50 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	8
Barium	2000 P	µg/L	--	48	--	--	--	--	--	66	--	--	--	--	58	71	39	10	7
Beryllium	4 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	10
Cadmium	5 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	10
Calcium		mg/L	--	31.9	--	--	30.6	--	--	34.4	--	--	31.7	--	32.3	34.9	30.3	0.5	14
Chromium	100 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	10
Copper	1300 AL	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	155	BQL	40	31
Iron	300 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	60	31
Lead	15 AL	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.29	10
Magnesium		mg/L	--	7.2	--	--	7.8	--	--	10.5	--	--	--	--	8.7	10.7	7.1	0.5	10
Manganese	50 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25	31
Mercury	2 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.5	7
Nickel	100 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	5	10
Potassium		mg/L	--	2.7	--	--	2.3	--	--	3.1	--	--	--	--	2.7	3.2	2.2	0.5	10
Selenium	50 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	10
Silicon		mg/L	--	BQL	--	--	BQL	--	--	4	--	--	--	--	BQL	4	BQL	4	10
Silver	100 S	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.5	10
Sodium		mg/L	--	17.6	10.3	15.6	13.5	15.6	--	16.1	14.9	12.9	14.8	--	14.6	18.2	10.2	5.0	31
Thallium	2 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	10
Zinc	5000 S	µg/L	--	238	--	--	147	--	--	190	--	--	--	--	191	378	130	25	10

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