Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2004 TO 12/31/2004
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	11	11	11	11	--	12	11	11	11	--	11	12	11	-	9
Alkalinity, Bicarbonate		mg/L	--	84	55	62	74	89	--	105	54	100	80	--	78	105	54	-	9
Alkalinity, Carbonate		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	9
Alkalinity, Hydroxyl		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	9
Alkalinity, Phenolphthalein		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	9
Alkalinity, Total		mg/L	--	84	55	62	74	89	--	105	54	100	80	--	78	105	54	-	9
Bromide		mg/L	--	BQL	0.01	BQL	0.01	0.01	--	BQL	BQL	BQL	BQL	--	BQL	0.01	BQL	0.01	9
Carbon Dioxide		mg/L	--	13	6	4	12	7	--	5	7	6	4	--	7	13	4	-	9
Chemical Oxygen Demand		mg/L	--	BQL	--	--	--	BQL	--	--	--	--	--	--	BQL	BQL	BQL	5.0	2
Chloride	250.0 S	mg/L	--	43.5	17.9	22.4	22.9	21.5	--	23.1	23.5	22.0	20.9	--	24.2	43.5	17.9	5.0	9
Chlorine, Free		mg/L	--	0.2	0.1	3.3	3.5	3.4	--	0.2	0.1	0.0	0.0	--	1.2	3.5	0.0	0.0	9
Chlorine, Total		mg/L	--	3.2	3.6	3.3	3.6	3.4	--	3.5	2.7	3.5	3.2	--	3.3	3.6	2.7	0.0	9
Color	15 S	Units	--	10	0	3	2	3	--	1	5	0	--	--	3	10	0	0	8
Dissolved Oxygen		mg/L	--	15.7	15.5	13.4	15.7	12.6	--	9.9	12.5	14.5	14.6	--	13.8	15.7	9.9	0.0	9
Fluoride	4.0/2.0 P/S	mg/L	--	0.9	0.8	0.9	0.9	0.9	1.0	0.9	0.9	0.8	0.8	0.7	0.9	1.0	0.7	0.2	11
Hardness, Calcium		mg/L	--	102	78	60	71	80	--	82	59	91	78	--	78	102	59	-	9
Hardness, Total		mg/L	--	136	97	92	97	108	--	124	77	136	--	--	108	136	77	-	8
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	--	0.91	0.79	--	BQL	0.06	--	1.27	0.96	0.96	--	--	0.71	1.27	BQL	0.05	7
N, Nitrate (Nitrate as N)	10 P	mg/L	--	1.9	1.5	1.2	0.7	1.2	--	1.2	1.0	1.1	1.1	--	1.2	1.9	0.7	0.2	9
N, Nitrite (Nitrite as N)	1 P	mg/L	--	0.02	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	0.02	BQL	0.01	9
pH	6.5-8.5 S	Units	--	7.1	7.3	7.5	7.1	7.4	--	7.6	7.2	7.5	7.6	--	7.4	7.6	7.1	-	9
Phosphate as Phosphorous		mg/L	--	0.76	0.62	0.65	0.58	0.58	--	0.44	0.60	0.43	0.50	--	0.57	0.76	0.43	0.20	9
Solids, Fixed		mg/L	--	152	132	148	144	138	--	149	143	191	156	--	150	191	132	1	9
Solids, Total		mg/L	--	239	200	241	214	231	--	235	201	236	248	--	227	248	200	1	9
Solids, Total Dissolved	500 S	mg/L	--	201	147	112	160	168	--	189	141	168	164	--	161	201	112	1	9
Solids, Total Suspended		mg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	1	9
Solids, Volatile		mg/L	--	87	68	93	70	93	--	86	58	45	--	--	75	93	45	1	8
Specific Conductivity		µmhos/cm	--	351	249	198	253	275	--	308	212	310	266	--	269	351	198	0	9
Sulfate	250.0 S	mg/L	--	27.1	32.1	15.7	16.1	16.2	--	20.8	18.0	19.2	23.8	--	21.0	32.1	15.7	5.0	9
Taste		Units	--	2	2	2	4	1	--	2	3	2	2	--	2	4	1	1	9
Temperature		°C	--	3.9	9.9	17.4	22.6	23.5	--	25.1	19.5	14.1	11.0	--	16.3	25.1	3.9	-	9
Threshold Odor Number	3 S	Units	--	10	7	19	9	6	--	7	5	6	1	--	8	19	1	1	9
Total Organic Carbon		mg/L	--	1.7	1.0	1.2	1.4	1.6	--	1.9	2.2	1.8	2.2	--	1.7	2.2	1.0	0.5	9
Turbidity	≤5 P	NTU	--	0.05	0.10	0.15	0.30	0.15	--	0.20	0.10	0.10	0.10	--	0.14	0.30	0.05	0.00	9

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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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
Aluminum	50-200 S	µg/L	--	BQL	--	--	109	--	--	187	--	--	--	--	99	187	BQL	20	3
Antimony	6 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	3
Arsenic	50 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	3
Barium	2000 P	µg/L	--	68	--	--	--	--	--	57	--	--	--	--	63	68	57	10	2
Beryllium	4 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Cadmium	5 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Calcium		mg/L	--	40.4	--	--	29.6	--	--	34.4	--	--	31.2	--	33.9	40.4	29.6	0.5	4
Chromium	100 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Copper	1300 AL	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	40	9
Iron	300 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	60	9
Lead	15 AL	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.29	3
Magnesium		mg/L	--	9.0	--	--	7.7	--	--	10.4	--	--	--	--	9.0	10.4	7.7	0.5	3
Manganese	50 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25	9
Mercury	2 P	µg/L	--	BQL	--	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.5	2
Nickel	100 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	5	3
Potassium		mg/L	--	3.1	--	--	2.2	--	--	3.0	--	--	--	--	2.8	3.1	2.2	0.5	3
Selenium	50 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	3
Silicon		mg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	3
Silver	100 S	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.5	3
Sodium		mg/L	--	19.8	10.5	16.1	13.0	15.9	--	15.6	14.2	12.9	15.2	--	14.8	19.8	10.5	5.0	9
Thallium	2 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Zinc	5000 S	µg/L	--	222	--	--	175	--	--	175	--	--	--	--	191	222	175	25	3

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