

FAIRFAX COUNTY WATER AUTHORITY
 WATER QUALITY LABORATORY
 INORGANIC AND METAL ANALYSES
 PERIOD OF 01/01/2003 TO 12/31/2003
 Corbalis Treatment Plant Finished Water

Parameter	Maximum Contaminant Level ¹	Contaminant Type ²	Units of Measure ³	Average	Max	Min	Quantitation Limit	# of Tests
Aggressive Index Number			Units	11	12	11	-	24
Alkalinity, Bicarbonate			mg/L	75	93	49	-	24
Alkalinity, Carbonate			mg/L	0	0	0	-	24
Alkalinity, Hydroxyl			mg/L	0	0	0	-	24
Alkalinity, Phenolphthalein			mg/L	0	0	0	-	24
Alkalinity, Total			mg/L	75	93	49	-	24
Bromate	10	P	µg/L	BQL	BQL	BQL	10	12
Bromide			mg/L	BQL	0.02	BQL	0.01	27
Carbon Dioxide			mg/L	5	8	1	-	24
Chemical Oxygen Demand			mg/L	BQL	5.4	BQL	5.0	6
Chloride	250.0	S	mg/L	33.7	117.3	18.2	5.0	24
Chlorine, Free			mg/L	1.0	3.8	0.0	0.0	24
Chlorine, Total			mg/L	4.0	4.6	3.1	0.0	24
Color	15	S	Units	5	12	0	0	24
Dissolved Oxygen			mg/L	14.8	17.1	11.4	0.0	24
Fluoride	4.0/2.0	P/S	mg/L	0.8	1.0	0.5	0.2	24
Hardness, Calcium			mg/L	77	98	52	-	24
Hardness, Total			mg/L	106	138	77	-	24
Methylene Blue Activated Substances	0.5	S	mg/L	BQL	BQL	BQL	0.050	3
N, Ammonia (Ammonia as N)			mg/L	0.85	1.44	BQL	0.05	24
N, Nitrate (Nitrate as N)	10	P	mg/L	1.4	1.6	1.1	0.2	24
N, Nitrite (Nitrite as N)	1	P	mg/L	BQL	0.02	BQL	0.01	24
pH	6.5-8.5	S	Units	7.5	8.0	7.3	-	24
Phosphate as Phosphorous			mg/L	0.57	0.97	0.29	0.20	21
Solids, Fixed			mg/L	156	297	113	1	24
Solids, Total			mg/L	224	362	156	1	24
Solids, Total Dissolved	500	S	mg/L	176	330	133	1	24
Solids, Total Suspended			mg/L	BQL	BQL	BQL	1	24
Solids, Volatile			mg/L	72	100	37	1	18
Specific Conductivity			µmhos/cm	309	621	237	0	24
Sulfate	250.0	S	mg/L	19.0	23.2	15.2	5.0	24
Taste			Units	2	2	1	1	24
Temperature			°C	14.8	25.3	5.2	-	24
Threshold Odor Number	3	S	Units	8	28	BQL	1	24
Total Organic Carbon			mg/L	1.6	2.2	1.1	0.5	24
Turbidity	≤5	P	NTU	0.09	0.25	0.05	0.00	24
Aluminum	50-200	S	µg/L	38	87	BQL	20	9
Antimony	6	P	µg/L	BQL	BQL	BQL	4	8
Arsenic	50	P	µg/L	BQL	BQL	BQL	2	9
Barium	2000	P	µg/L	49	73	30	10	9
Beryllium	4	P	µg/L	BQL	BQL	BQL	1.0	9
Cadmium	5	P	µg/L	BQL	BQL	BQL	1	9
Calcium			mg/L	32.0	38.5	25.5	0.5	9
Chromium	100	P	µg/L	BQL	BQL	BQL	1	9
Copper	1300	AL	µg/L	BQL	BQL	BQL	40	24
Iron	300	S	µg/L	BQL	BQL	BQL	60	24
Lead	15	AL	µg/L	BQL	0.35	BQL	0.29	9
Magnesium			mg/L	8.2	9.9	6.8	0.5	9
Manganese	50	S	µg/L	BQL	BQL	BQL	25	24
Mercury	2	P	µg/L	BQL	BQL	BQL	0.5	6
Nickel	100	P	µg/L	BQL	BQL	BQL	5	9
Potassium			mg/L	3.1	3.6	2.4	0.5	9
Selenium	50	P	µg/L	BQL	BQL	BQL	4	9
Silicon			mg/L	BQL	6	BQL	4	9
Silver	100	S	µg/L	BQL	BQL	BQL	0.5	9
Sodium			mg/L	19.3	61.9	10.2	5.0	24
Thallium	2	P	µg/L	BQL	BQL	BQL	2	9
Zinc	5000	S	µg/L	196	292	96	25	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

² P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps

³ mg/L=milligrams per liter, µg/L=micrograms per liter