

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

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	-	8
Alkalinity, Bicarbonate			mg/L	76	90	49	-	8
Alkalinity, Carbonate			mg/L	0	0	0	-	8
Alkalinity, Hydroxyl			mg/L	0	0	0	-	8
Alkalinity, Phenolphthalein			mg/L	0	0	0	-	8
Alkalinity, Total			mg/L	76	90	49	-	8
Bromate	10	P	µg/L	BQL	BQL	BQL	10	2
Bromide			mg/L	BQL	0.03	BQL	0.01	8
Carbon Dioxide			mg/L	4	7	1	-	8
Chemical Oxygen Demand			mg/L	BQL	5.8	BQL	5.0	2
Chloride	250.0	S	mg/L	32.7	112.8	17.5	5.0	8
Chlorine, Free			mg/L	0.9	3.4	0.0	0.0	8
Chlorine, Total			mg/L	3.9	4.4	3.2	0.0	8
Color	15	S	Units	5	14	0	0	8
Dissolved Oxygen			mg/L	14.1	16.5	11.1	0.0	8
Fluoride	4.0/2.0	P/S	mg/L	0.9	1.3	0.6	0.2	12
Hardness, Calcium			mg/L	77	90	52	-	8
Hardness, Total			mg/L	104	135	73	-	8
Methylene Blue Activated Substances	0.5	S	mg/L	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)			mg/L	0.92	2.04	BQL	0.05	8
N, Nitrate (Nitrate as N)	10	P	mg/L	1.3	1.6	1.0	0.2	8
N, Nitrite (Nitrite as N)	1	P	mg/L	BQL	0.01	BQL	0.01	8
pH	6.5-8.5	S	Units	7.6	7.9	7.4	-	8
Phosphate as Phosphorous			mg/L	0.60	0.76	0.40	0.20	7
Solids, Fixed			mg/L	151	258	114	1	8
Solids, Total			mg/L	221	373	170	1	8
Solids, Total Dissolved	500	S	mg/L	170	316	129	1	8
Solids, Total Suspended			mg/L	BQL	BQL	BQL	1	8
Solids, Volatile			mg/L	67	89	41	1	6
Specific Conductivity			µmhos/cm	302	609	233	0	8
Sulfate	250.0	S	mg/L	18.8	23.3	14.9	5.0	8
Taste			Units	1	2	1	1	8
Temperature			°C	13.8	25.9	4.3	-	8
Threshold Odor Number	3	S	Units	6	14	1	1	8
Total Organic Carbon			mg/L	1.7	2.2	1.4	0.5	7
Turbidity	≤5	P	NTU	0.09	0.15	0.05	0.00	8
Aluminum	50-200	S	µg/L	37	52	21	20	3
Antimony	6	P	µg/L	BQL	BQL	BQL	4	3
Arsenic	50	P	µg/L	BQL	BQL	BQL	2	3
Barium	2000	P	µg/L	50	63	33	10	3
Beryllium	4	P	µg/L	BQL	BQL	BQL	1.0	3
Cadmium	5	P	µg/L	BQL	BQL	BQL	1	3
Calcium			mg/L	31.1	37.2	24.0	0.5	3
Chromium	100	P	µg/L	BQL	BQL	BQL	1	3
Copper	1300	AL	µg/L	BQL	BQL	BQL	40	8
Iron	300	S	µg/L	BQL	BQL	BQL	60	8
Lead	15	AL	µg/L	BQL	0.43	BQL	0.29	3
Magnesium			mg/L	8.0	9.8	6.4	0.5	3
Manganese	50	S	µg/L	BQL	BQL	BQL	25	8
Mercury	2	P	µg/L	BQL	BQL	BQL	0.5	2
Nickel	100	P	µg/L	BQL	BQL	BQL	5	3
Potassium			mg/L	3.2	3.6	2.5	0.5	3
Selenium	50	P	µg/L	BQL	BQL	BQL	4	3
Silicon			mg/L	BQL	6	BQL	4	3
Silver	100	S	µg/L	BQL	BQL	BQL	0.5	3
Sodium			mg/L	19.2	60.0	10.6	5.0	8
Thallium	2	P	µg/L	BQL	BQL	BQL	2	3
Zinc	5000	S	µg/L	197	219	186	25	3

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