



**WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2005 TO 12/31/2005
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	12	11	--	11	11	12	11	-	9
Alkalinity, Bicarbonate		mg/L	--	62	84	73	56	100	--	105	113	76	--	56	81	113	56	-	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	--	62	84	73	56	100	--	105	113	76	--	56	81	113	56	-	9
Bromate	10 P	µg/L	--	--	--	--	--	--	--	--	--	BQL	--	--	BQL	BQL	BQL	10	1
Bromide		mg/L	--	0.02	0.01	BQL	BQL	--	--	BQL	0.02	BQL	--	BQL	BQL	0.02	BQL	0.01	8
Carbon Dioxide		mg/L	--	5	7	6	6	10	--	5	7	15	--	4	7	15	4	-	9
Chloride	250.0 S	mg/L	--	99.7	25.1	26.5	41.9	25.7	--	25.8	30.7	36.9	--	23.0	37.3	99.7	23.0	5.0	9
Chlorine, Free		mg/L	--	0.0	0.0	3.4	2.3	3.2	--	0.5	0.4	0.1	--	0.4	1.1	3.4	0.0	0.0	9
Chlorine, Total		mg/L	--	3.4	3.4	3.4	2.3	3.2	--	3.8	2.9	4.0	--	3.7	3.3	4.0	2.3	0.0	9
Color	15 S	Units	--	2	1	0	2	2	--	2	3	0	--	1	1	3	0	0	9
Dissolved Oxygen		mg/L	--	16.2	15.6	11.9	9.8	11.8	--	9.2	9.7	14.3	--	15.5	12.7	16.2	9.2	0.0	9
Fluoride	4.0/2.0 P/S	mg/L	--	0.8	0.8	0.7	0.8	0.9	0.8	0.8	0.8	0.7	0.9	0.8	0.8	0.9	0.7	0.2	11
Hardness, Calcium		mg/L	--	84	104	66	56	82	--	85	103	72	--	55	79	104	55	-	9
Hardness, Total		mg/L	--	118	133	104	76	130	--	136	160	109	--	78	116	160	76	-	9
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	--	1.46	1.19	BQL	BQL	BQL	--	0.90	0.81	--	--	1.01	0.67	1.46	BQL	0.05	8
N, Nitrate (Nitrate as N)	10 P	mg/L	--	1.6	1.2	1.0	0.7	0.9	--	0.7	0.7	1.2	--	1.4	1.0	1.6	0.7	0.2	9
N, Nitrite (Nitrite as N)	1 P	mg/L	--	BQL	0.01	--	BQL	BQL	--	BQL	--	BQL	--	0.02	BQL	0.02	BQL	0.01	7
pH	6.5-8.5 S	Units	--	7.4	7.4	7.4	7.3	7.3	--	7.6	7.5	7.0	--	7.4	7.4	7.6	7.0	-	9
Phosphate as Phosphorous		mg/L	--	0.71	0.61	0.61	0.56	--	--	0.45	0.38	0.44	--	0.57	0.54	0.71	0.38	0.20	8
Solids, Fixed		mg/L	--	225	--	176	136	165	--	184	223	199	--	--	187	225	136	1	7
Solids, Total		mg/L	--	326	276	316	195	292	--	196	324	270	--	--	274	326	195	1	8
Solids, Total Dissolved	500 S	mg/L	--	280	167	182	115	201	--	214	239	164	--	140	189	280	115	1	9
Solids, Total Suspended		mg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	--	BQL	--	BQL	BQL	BQL	BQL	1	8
Solids, Volatile		mg/L	--	101	180	140	59	127	--	--	101	71	--	--	111	180	59	1	7
Specific Conductivity		µmhos/cm	--	506	340	274	283	310	--	338	396	320	--	226	333	506	226	0	9
Sulfate	250.0 S	mg/L	--	18.3	34.5	16.7	14.0	22.4	--	22.7	39.9	21.5	--	15.4	22.8	39.9	14.0	5.0	9
Taste		Units	--	2	2	3	3	2	--	2	2	3	--	2	2	3	2	1	9
Temperature		°C	--	4.4	7.9	17.0	17.4	23.3	--	28.1	25.8	16.3	--	9.8	16.7	28.1	4.4	-	9
Threshold Odor Number	3 S	Units	--	3	2	9	7	1	--	3	4	3	--	1	4	9	1	1	9
Total Organic Carbon		mg/L	--	9.1	1.5	1.5	2.6	2.1	--	2.1	2.2	3.0	--	1.8	2.9	9.1	1.5	0.5	9
Turbidity	≤5 P	NTU	--	0.10	0.25	0.20	0.15	0.15	--	0.30	0.30	0.10	--	0.05	0.18	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



**WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2005 TO 12/31/2005
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	--	--	42	--	--	257	--	--	--	--	100	257	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	--	134	--	--	35	--	--	41	--	--	--	--	70	134	35	2	3
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	--	33.1	--	--	19.8	--	--	34.6	--	--	--	--	29.2	34.6	19.8	0.5	3
Chromium	100 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Copper	1300 AL	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	2	BQL	BQL	--	BQL	BQL	2	BQL	2	9
Iron	300 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	20	9
Lead	15 AL	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.37	3
Magnesium		mg/L	--	9.3	--	--	6.0	--	--	10.7	--	--	--	--	8.7	10.7	6.0	0.5	3
Manganese	50 S	µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	8	--	4	BQL	8	BQL	2	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	--	3.5	--	--	3.3	--	--	3.0	--	--	--	--	3.3	3.5	3.0	0.5	3
Selenium	50 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	3
Silicon		mg/L	--	5	--	--	BQL	--	--	4	--	--	--	--	3	5	BQL	1	3
Silver	100 S	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.5	3
Sodium		mg/L	--	49.8	12.3	14.6	24.5	16.6	--	17.7	20.0	21.2	--	14.0	21.2	49.8	12.3	1.0	9
Thallium	2 P	µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	3
Zinc	5000 S	µg/L	--	276	--	--	186	--	--	146	--	--	--	--	203	276	146	25	3

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