



**WATER QUALITY LABORATORY  
INORGANIC ANALYSES  
PERIOD OF 01/01/2012 TO 12/31/2012  
Distribution Site Representing Corbalis Treatment Plant**

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit <sup>3</sup>	# of Tests
Aggressive Index Number		Units	11	11	11	11	11	11	--	11	11	12	11	--	11	12	11	-	10
Alkalinity, Bicarbonate		mg/L	73	79	65	87	81	100	--	90	95	110	63	--	84	110	63	-	10
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	10
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	10
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	10
Alkalinity, Total		mg/L	73	79	65	87	81	100	--	90	95	110	63	--	84	110	63	-	10
Bromide		mg/L	0.02	0.01	0.01	0.01	BQL	0.01	--	0.02	0.01	0.02	BQL	--	0.01	0.02	BQL	0.01	10
Carbon Dioxide		mg/L	7	10	8	28	13	10	--	9	9	7	5	--	11	28	5	-	10
Chloride	250.0 S	mg/L	21.6	17.4	27.2	17.6	16.3	25.1	--	28.2	26.0	28.2	22.8	--	23.0	28.2	16.3	5.0	10
Chlorine, Free		mg/L	0.0	0.0	0.2	3.0	2.5	2.3	--	0.3	0.2	0.1	0.1	--	0.9	3.0	0.0	0.0	10
Chlorine, Total		mg/L	3.1	3.1	3.2	3.2	2.7	2.5	--	3.1	3.2	3.3	3.4	--	3.1	3.4	2.5	0.0	10
Color	15 S	Units	0	--	0	0	1	0	--	0	1	0	0	--	0	1	0	0	9
Dissolved Oxygen		mg/L	15.1	14.7	13.4	12.0	10.0	11.0	--	11.0	12.9	13.4	14.1	--	12.8	15.1	10.0	0.0	10
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.7	0.7	0.7	0.8	0.8	--	0.7	0.6	0.7	0.7	--	0.7	0.8	0.6	0.2	10
Hardness, Calcium		mg/L	74	99	65	105	83	107	--	102	92	120	61	--	91	120	61	-	10
Hardness, Total		mg/L	107	137	92	147	110	148	--	143	139	167	87	--	128	167	87	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	--	--	--	--	--	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.05	1
N, Ammonia (Ammonia as N)		mg/L	0.88	0.80	0.75	BQL	BQL	BQL	--	0.71	--	0.80	0.83	--	0.53	0.88	BQL	0.20	9
N, Nitrate (Nitrate as N)	10 P	mg/L	1.3	1.4	1.0	0.8	1.1	1.1	--	0.9	0.8	1.3	1.5	--	1.1	1.5	0.8	0.2	10
N, Nitrite (Nitrite as N)	1 P	mg/L	0.01	0.02	BQL	BQL	BQL	BQL	--	BQL	BQL	0.01	BQL	--	BQL	0.02	BQL	0.01	10
pH	6.5-8.5 S	Units	7.3	7.2	7.2	6.8	7.1	7.3	--	7.3	7.3	7.5	7.4	--	7.2	7.5	6.8	-	10
Phosphate as Phosphorous		mg/L	0.35	0.33	0.38	0.32	0.34	0.29	--	0.30	0.30	0.28	0.33	--	0.32	0.38	0.28	0.10	10
Solids, Total		mg/L	154	204	145	234	179	222	--	255	225	262	156	--	204	262	145	1	10
Solids, Total Dissolved	500 S	mg/L	94	198	126	262	218	232	--	300	242	254	140	--	207	300	94	1	10
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	1	10
Specific Conductivity		µmhos/cm	291	341	243	371	297	424	--	399	393	447	257	--	346	447	243	0	10
Sulfate	250.0 S	mg/L	28.7	45.9	17.5	54.3	28.4	45.1	--	49.0	44.5	54.3	18.6	--	38.6	54.3	17.5	5.0	10
Taste		Units	2	2	2	3	2	3	--	2	2	2	2	--	2	3	2	1	10
Temperature		°C	6.6	6.7	8.9	16.6	23.9	27.5	--	26.9	24.4	17.0	10.8	--	16.9	27.5	6.6	-	10
Threshold Odor Number	3 S	Units	3	5	3	1	3	3	--	5	1	1	1	--	3	5	1	0	10
Total Organic Carbon		mg/L	1.4	1.4	1.7	1.6	2.0	1.8	--	2.2	2.7	2.2	2.5	--	2.0	2.7	1.4	0.5	10
Turbidity	≤ 5 P	NTU	0.15	0.25	0.40	0.15	0.15	0.20	--	0.15	0.20	0.10	0.15	--	0.19	0.40	0.10	0.00	10

BQL = The lowest quantitation limit of all analyses for the particular parameter, Below Quantitation Limit.

<sup>1</sup> Environmental Protection Agency/Virginia Department of Health established levels for drinking water at points of entry to the water distribution system  
P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps, MCL=Maximum Contaminant Level.

<sup>2</sup> mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

<sup>3</sup> Quant Limit = Quantitation Limit = lowest level of measurement



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METAL ANALYSES  
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Aluminum	50-200 S	µg/L	BQL	--	--	BQL	--	--	--	35.5	--	34.5	--	--	BQL	35.5	BQL	25.0	4
Antimony	6 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Arsenic	10 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Barium	2000 P	µg/L	28.8	--	--	48.6	--	--	--	34.9	--	40.0	--	--	38.1	48.6	28.8	25.0	4
Beryllium	4 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Cadmium	5 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Calcium		mg/L	32.8	--	--	42.0	--	--	--	39.7	--	50.2	--	--	41.2	50.2	32.8	1.0	4
Chromium	100 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	10
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	10
Lead	15 AL	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	8.6	--	--	9.6	--	--	--	10.2	--	11.4	--	--	10.0	11.4	8.6	1.0	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	25.0	10
Mercury	2 P	µg/L	BQL	--	--	--	--	BQL	--	--	--	--	--	--	BQL	BQL	BQL	0.50	2
Nickel	100 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.2	--	--	2.2	--	--	--	3.2	--	3.7	--	--	2.8	3.7	2.2	1.0	4
Selenium	50 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon		mg/L	4.8	--	--	BQL	--	--	--	2.6	--	1.3	--	--	2.2	4.8	BQL	1.0	4
Silver	100 S	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium		mg/L	17.0	11.7	16.1	14.7	13.4	17.4	--	18.9	18.7	19.8	13.5	--	16.1	19.8	11.7	1.0	10
Thallium	2 P	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Zinc	5000 S	µg/L	BQL	--	--	BQL	--	--	--	BQL	--	BQL	--	--	BQL	BQL	BQL	25.0	4

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