



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2015 TO 12/31/2015

Corbalis Treatment Plant Finished Water

Date Report Generated: 12/28/2015

Parameter	MCL ¹	Units ²	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Quant Limit ³
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	88	90	43	62	81	94	83	92	94	84	94	-	0
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Total		mg/L	88	90	43	62	81	94	83	92	94	84	94	-	0
Bromate ⁴	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5	BQL	BQL	BQL	BQL	5
Bromide		mg/L	0.03	0.03	0.04	0.03	0.01	0.01	0.02	0.03	0.04	0.01	0.02	-	0.01
Carbon Dioxide		mg/L	7	6	3	5	6	7	7	9	12	4	7	-	N/A
Chloride	250 S	mg/L	30.9	32.5	94.8	83.7	36.4	27.7	23.2	29.7	36.5	29.7	23.8	-	5.0
Chlorine, Free ⁴		mg/L	0.0	0.1	0.2	3.3	3.3	3.1	0.4	0.4	0.4	0.2	0.2	-	0.0
Chlorine, Total ⁴		mg/L	3.5	3.8	3.8	3.5	3.5	3.3	4.2	4.0	3.9	3.9	4.0	-	0.0
Color	15 S	Units	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-	0
Cyanide ⁴	0.2 P	mg/L	-	-	-	BQL	-	-	-	-	-	-	-	-	0.025
Dissolved Oxygen		mg/L	15.8	16.5	15.4	13.3	12.4	14.7	11.3	12.7	13.3	14.3	13.7	-	0.0
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.8	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.7	0.7	-	0.2
Hardness, Calcium		mg/L	103	107	67	76	84	97	93	94	107	77	100	-	10
Hardness, Total		mg/L	120	142	89	106	113	132	123	141	152	104	135	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N) ⁴		mg/L	0.93	0.96	0.97	BQL	BQL	BQL	0.87	0.79	0.84	0.94	0.97	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.32	1.31	0.95	0.62	0.90	0.83	1.26	0.65	0.74	1.22	0.56	0.73	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	0.01	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.01	0.01	0.01
pH	6.5 - 8.5 S	Units	7.4	7.5	7.4	7.4	7.4	7.4	7.4	7.3	7.2	7.6	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.37	0.40	0.36	-	0.37	0.34	0.35	0.30	0.31	0.31	0.31	-	0.10
Orthophosphate as PO ₄		mg/L	1.14	1.23	1.11	-	1.13	1.04	1.06	0.91	0.94	0.95	0.94	-	0.31
Solids, Total		mg/L	230	219	243	267	193	-	212	239	274	184	207	-	1
Solids, Total Dissolved	500 S	mg/L	226	-	262	244	184	-	214	226	264	210	216	-	1
Solids, Total Suspended		mg/L	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	387	379	454	444	289	369	318	398	477	330	370	-	0
Sulfate	250 S	mg/L	43.8	46.0	16.3	14.6	20.5	41.6	41.1	48.2	58.7	17.1	44.3	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	1	1	2	-	1
Temperature		°C	6.8	6.8	7.2	14.0	18.6	23.8	25.0	27.6	27.5	20.7	16.6	-	N/A
Threshold Odor Number	3 S	Units	1	7	3	3	8	7	1	4	7	7	7	-	0
Total Organic Carbon		mg/L	1.5	1.6	-	1.8	1.4	1.7	1.5	1.4	1.4	1.9	1.6	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.10	0.05	0.05	0.10	0.05	0.05	0.10	0.05	-	0.05

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

¹Environmental 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

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

³Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

⁴Monthly result composed from an average of parameter results for finished water points of entry to distribution system

- Not sampled

* Analysis pending



Water Quality Laboratory

Metal Analyses

Period of 01/01/2015 TO 12/31/2015

Corbalis Treatment Plant Finished Water

Date Report Generated: 12/28/2015

Parameter	MCL ¹	Units ²	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Quant Limit ³
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	40.7	-	-	46.2	-	-	25.0
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	2000 P	µg/L	36.2	-	-	40.3	-	-	42.6	-	-	27.9	-	-	25.0
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium		mg/L	42.2	-	-	28.8	-	-	36.9	-	-	31.1	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium		mg/L	9.7	-	-	8.4	-	-	7.7	-	-	8.0	-	-	1.0
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Mercury	2 P	µg/L	BQL	-	-	-	-	-	BQL	-	-	-	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	2.3	-	-	2.2	-	-	2.4	-	-	3.2	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	BQL	-	-	1.8	-	-	3.2	-	-	4.9	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	19.5	19.6	48.7	41.3	20.3	16.0	13.8	19.2	21.8	17.9	15.7	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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

¹Environmental 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

²mg/L = milligrams per liter, µg/L = micrograms per liter

³Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending