



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2023 TO 12/31/2023

Corbalis Treatment Plant Finished Water

Date Report Generated: 10/06/2023

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Quant Limit <sup>3</sup>
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	-	-	-	N/A
Alkalinity, Bicarbonate		mg/L	80	81	68	83	66	91	88	95	92	-	-	-	0
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	-	-	-	0
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	-	-	-	0
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	-	-	-	0
Alkalinity, Total		mg/L	80	81	68	83	66	91	88	95	92	-	-	-	0
Bromate <sup>4</sup>	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	*	-	-	5
Bromide		mg/L	BQL	0.01	BQL	BQL	BQL	0.02	0.01	0.01	0.03	-	-	-	0.01
Carbon Dioxide		mg/L	8	5	5	8	7	9	9	6	9	-	-	-	N/A
Chloride	250 S	mg/L	30.0	22.5	23.9	18.6	25.6	23.7	26.6	38.4	42.2	-	-	-	5.0
Chlorine, Free <sup>4</sup>		mg/L	0.1	0.1	0.2	3.3	3.4	3.4	0.4	0.4	0.4	-	-	-	0.0
Chlorine, Total <sup>4</sup>		mg/L	3.5	3.7	3.6	3.5	3.6	3.6	3.8	3.9	3.9	-	-	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	-	-	-	0
Dissolved Oxygen		mg/L	13.1	15.5	13.4	14.9	11.6	13.2	13.6	14.6	14.2	-	-	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.7	0.7	-	-	-	0.2
Hardness, Calcium		mg/L	83	90	67	87	64	90	88	92	96	-	-	-	10
Hardness, Total		mg/L	111	121	94	119	89	132	123	139	148	-	-	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N) <sup>4</sup>		mg/L	0.84	0.83	0.83	BQL	BQL	BQL	0.91	0.88	0.98	-	-	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.60 <sup>4</sup>	1.46	1.13	0.77 <sup>4</sup>	0.81	0.36	0.41 <sup>4</sup>	0.30	0.22	-	-	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	0.01
pH	6.5 - 8.5 S	Units	7.3	7.5	7.4	7.3	7.3	7.3	7.3	7.5	7.3	-	-	-	N/A
Phosphate as Phosphorous		mg/L	0.45	0.42	0.45	0.45	0.43	0.39	0.44	0.40	0.43	-	-	-	0.10
Orthophosphate as PO <sub>4</sub>		mg/L	1.37	1.27	1.37	1.37	1.30	1.19	1.33	1.21	1.32	-	-	-	0.31
Solids, Total		mg/L	179	193	166	174	131	182	184	240	279	-	-	-	1
Solids, Total Dissolved	500 S	mg/L	176	162	166	150	164	234	190	224	230	-	-	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	1
Specific Conductivity		µmhos/cm	321	320	269	301	260	342	332	404	443	-	-	-	0
Sulfate	250 S	mg/L	24.3	36.6	20.6	33.2	17.5	40.9	37.0	45.3	58.9	-	-	-	5.0
Taste		Units	3	2	2	2	2	2	2	2	2	-	-	-	1
Temperature		°C	10.5	10.6	12.2	16.2	18.1	23.0	26.3	27.2	27.2	-	-	-	N/A
Threshold Odor Number	3 S	Units	12	12	7	6	6	9	7	7	3	-	-	-	0
Total Organic Carbon		mg/L	1.4	1.1	1.6	1.3	1.4	1.4	1.5	1.7	1.5	-	-	-	0.5
Turbidity	≤ 5 P	NTU	0.15	0.10	0.05	0.05	0.05	0.05	0.15	0.05	0.05	-	-	-	0.05

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, N/A = not applicable

<sup>4</sup>Monthly 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 01/01/2023 TO 12/31/2023

Corbalis Treatment Plant Finished Water

Date Report Generated: 10/06/2023

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Quant Limit <sup>3</sup>
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	62.7	-	-	-	-	-	25.0
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	2.0
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	2.0
Barium	2000 P	µg/L	27.7	-	-	40.4	-	-	44.5	-	-	-	-	-	25.0
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	2.0
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	2.0
Calcium		mg/L	32.3	-	-	35.6	-	-	34.6	-	-	-	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	5.0
Copper	1300 AL	µg/L	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	-	-	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	2.0
Magnesium		mg/L	7.1	-	-	8.6	-	-	9.3	-	-	-	-	-	1.0
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	-	25.0
Mercury	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	5.0
Potassium		mg/L	2.2	-	-	2.0	-	-	2.5	-	-	-	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	5.0
Silicon		mg/L	4.0	-	-	BQL	-	-	3.8	-	-	-	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	5.0
Sodium		mg/L	15.6	13.0	13.4	11.9	14.3	14.3	15.8	23.0	27.5	-	-	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	-	-	-	25.0

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

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

- Not sampled

\* Analysis pending