



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2022 TO 12/31/2022

Corbalis Treatment Plant Finished Water

Date Report Generated: 1/04/2023

Parameter	MCL ¹	Units ²	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Quant Limit ³
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	12	12	-	N/A
Alkalinity, Bicarbonate		mg/L	73	90	74	67	59	99	111	111	99	121	121	-	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	73	90	74	67	59	99	111	111	99	121	121	-	0
Bromate ⁴	10 P	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide		mg/L	0.07	0.03	0.01	0.01	BQL	0.01	0.01	0.02	0.02	0.02	0.02	-	0.01
Carbon Dioxide		mg/L	6	6	5	7	6	10	9	9	10	10	10	-	N/A
Chloride	250 S	mg/L	21.5	48.4	20.2	20.7	23.8	22.8	27.0	31.9	32.1	32.4	30.5	-	5.0
Chlorine, Free ⁴		mg/L	0.2	0.2	0.2	3.7	3.4	3.6	0.3	0.2	0.2	0.1	0.2	-	0.0
Chlorine, Total ⁴		mg/L	3.8	3.7	3.9	3.9	3.6	3.8	3.6	3.6	3.7	3.8	3.9	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	16.0	17.9	15.1	13.0	13.6	12.4	11.6	13.3	11.9	15.0	13.6	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	-	0.2
Hardness, Calcium		mg/L	87	90	79	73	56	96	108	113	100	124	123	-	10
Hardness, Total		mg/L	120	127	105	100	76	130	151	163	147	173	179	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N) ⁴		mg/L	0.92	0.95	0.91	BQL	BQL	BQL	0.82	0.85	0.84	0.82	0.88	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.24 ⁴	1.35	1.15	0.82 ⁴	1.05	0.95	0.98 ⁴	0.82	0.69	1.27 ⁴	0.75	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.01 ⁴	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	6.5 - 8.5 S	Units	7.4	7.5	7.5	7.3	7.3	7.3	7.4	7.4	7.3	7.4	7.4	-	N/A
Phosphate as Phosphorous		mg/L	0.40	0.40	0.37	0.41	0.41	0.38	0.38	0.36	0.39	0.41	0.42	-	0.10
Orthophosphate as PO ₄		mg/L	1.23	1.23	1.14	1.26	1.25	1.16	1.17	1.11	1.19	1.26	1.28	-	0.31
Solids, Total		mg/L	184	226	167	162	146	177	229	259	237	270	266	-	1
Solids, Total Dissolved	500 S	mg/L	176	212	176	138	150	170	230	228	234	240	274	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	322	396	283	272	234	326	390	436	401	448	453	-	0
Sulfate	250 S	mg/L	48.7	37.4	31.6	32.8	13.6	33.1	40.5	51.6	45.7	50.2	55.5	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	1	1	2	-	1
Temperature		°C	12.0	7.8	11.1	13.6	16.7	22.7	24.7	26.5	25.7	20.4	18.4	-	N/A
Threshold Odor Number	3 S	Units	1	6	8	6	6	8	6	8	6	6	1	-	0
Total Organic Carbon		mg/L	1.2	1.3	1.0	1.1	1.7	1.3	1.6	1.5	1.3	1.6	1.3	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.10	0.05	0.05	0.05	0.10	0.15	0.10	0.05	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 01/01/2022 TO 12/31/2022

Corbalis Treatment Plant Finished Water

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Parameter	MCL ¹	Units ²	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Quant Limit ³
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	48.5	-	-	28.3	-	-	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	26.8	-	-	31.7	-	-	49.7	-	-	38.9	-	-	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	34.2	-	-	29.5	-	-	42.1	-	-	50.2	-	-	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	8.6	-	-	7.0	-	-	10.9	-	-	12.6	-	-	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	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	1.9	-	-	2.0	-	-	3.0	-	-	3.3	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	2.2	-	-	1.2	-	-	3.6	-	-	1.9	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	12.8	24.2	11.9	12.1	14.2	12.7	15.6	19.6	18.5	20.0	18.0	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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