



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2019 TO 12/31/2019

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 1/06/2020

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Quant Limit <sup>3</sup>
Aggressive Index Number		Units	11	11	11	11	11	11	11	12	12	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	72	71	74	78	66	95	92	110	120	118	117	-	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	72	71	74	78	66	95	92	110	120	118	117	-	0
Bromide		mg/L	BQL	0.02	0.02	0.01	BQL	BQL	0.02	0.02	0.02	0.03	0.01	-	0.01
Carbon Dioxide		mg/L	4	7	5	5	7	10	9	7	10	12	23	-	N/A
Chloride	250 S	mg/L	19.5	53.2	30.1	31.7	21.5	27.2	23.4	23.8	25.8	29.6	24.8	-	5.0
Chlorine, Free		mg/L	0.1	0.1	0.1	2.7	2.2	2.9	0.3	0.3	0.3	0.3	0.1	-	0.0
Chlorine, Total		mg/L	2.9	3.3	3.1	2.8	2.5	3.1	3.3	3.5	3.6	3.6	3.6	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	13.9	15.1	12.3	12.7	13.3	11.7	9.6	10.5	10.4	10.4	14.8	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.6	0.6	0.7	0.7	0.7	0.7	0.6	0.8	0.7	0.7	0.7	0.6	0.2
Hardness, Calcium		mg/L	67	73	79	75	61	86	95	108	118	119	120	-	10
Hardness, Total		mg/L	88	102	108	107	81	121	131	153	170	178	165	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.77	0.83	0.79	BQL	BQL	BQL	0.80	1.04	0.85	0.89	0.81	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.57	1.72	1.37	1.10	0.95	1.13	1.50	1.13	1.05	1.09	1.33	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.02	0.02	0.02	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.01	-	0.01
pH	6.5 - 8.5 S	Units	7.6	7.3	7.5	7.5	7.3	7.3	7.3	7.5	7.4	7.3	7.0	-	N/A
Phosphate as Phosphorous		mg/L	0.43	0.43	0.39	0.41	0.43	0.41	0.40	0.38	0.36	0.35	0.41	-	0.10
Orthophosphate as PO <sub>4</sub>		mg/L	1.31	1.32	1.20	1.25	1.31	1.24	1.21	1.16	1.11	1.06	1.25	-	0.31
Solids, Total		mg/L	160	211	182	157	124	192	194	220	250	254	231	-	1
Solids, Total Dissolved	500 S	mg/L	224	226	174	188	126	188	164	222	214	280	244	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	250	379	314	313	241	330	341	391	428	446	409	-	0
Sulfate	250 S	mg/L	16.9	22.6	25.6	21.6	15.1	23.9	32.1	42.6	52.7	57.8	46.1	-	5.0
Taste		Units	2	2	2	2	2	2	2	2	2	2	2	-	1
Temperature		°C	10.8	6.3	10.2	13.9	19.2	23.3	26.2	29.6	26.2	24.9	11.7	-	N/A
Threshold Odor Number	3 S	Units	-	3	3	6	8	5	7	1	6	4	9	-	0
Total Organic Carbon		mg/L	1.3	1.1	1.3	1.3	2.1	1.5	1.4	1.5	1.3	1.2	1.9	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.10	0.10	0.10	0.10	0.10	0.10	0.15	0.15	0.10	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

- Not sampled

\* Analysis pending



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Metal Analyses

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Aluminum	50 - 200 S	µg/L	BQL	-	-	27.9	-	-	53.4	-	-	60.9	-	-	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	26.1	-	-	38.0	-	-	42.3	-	-	49.7	-	-	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	27.0	-	-	31.5	-	-	38.6	-	-	47.2	-	-	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	6.1	-	-	8.4	-	-	8.9	-	-	15.6	-	-	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	2.0	-	-	2.1	-	-	2.9	-	-	3.6	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	4.4	-	-	2.6	-	-	3.0	-	-	1.8	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	10.9	29.6	16.4	18.1	14.3	15.9	13.1	14.5	16.6	18.4	16.4	-	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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