



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2018 TO 12/31/2018

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 12/21/2018

Parameter	MCL ¹	Units ²	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quant Limit ³
Aggressive Index Number		Units	11	11	11	11	11	11	11	11	11	11	11	-	N/A
Alkalinity, Bicarbonate		mg/L	72	80	89	61	67	76	87	64	101	96	82	-	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	80	89	61	67	76	87	64	101	96	82	-	0
Bromide		mg/L	0.04	0.04	0.02	0.02	BQL	BQL	BQL	BQL	BQL	BQL	0.01	-	0.01
Carbon Dioxide		mg/L	11	6	7	5	7	6	5	5	10	8	8	-	N/A
Chloride	250 S	mg/L	25.3	26.8	22.7	18.0	22.6	30.5	23.2	21.0	25.8	20.4	26.5	-	5.0
Chlorine, Free		mg/L	0.1	0.1	0.1	3.1	2.3	0.2	0.4	0.2	0.3	0.2	0.0	-	0.0
Chlorine, Total		mg/L	3.3	3.4	3.0	3.4	3.1	2.8	3.3	3.0	3.3	3.0	3.0	-	0.0
Color	15 S	Units	2.5	0	0	0	0	0	2.5	0	0	0	0	-	0
Dissolved Oxygen		mg/L	18.9	17.8	14.7	14.0	12.4	12.9	10.8	12.4	8.6	11.7	14.2	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.6	0.6	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.6	0.2
Hardness, Calcium		mg/L	90	98	112	73	72	78	81	58	84	88	72	-	10
Hardness, Total		mg/L	121	132	139	97	96	101	111	73	117	117	102	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.79	0.77	0.86	BQL	BQL	-	0.94	0.88	0.77	0.78	0.68	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.61	1.28	1.53	1.15	0.70	1.08	0.88	1.00	1.20	1.51	1.26	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.01	0.01	0.01	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01	-	0.01
pH	6.5 - 8.5 S	Units	7.1	7.4	7.4	7.4	7.3	7.4	7.5	7.4	7.3	7.4	7.3	-	N/A
Phosphate as Phosphorous		mg/L	0.42	0.42	0.40	0.44	0.45	0.45	0.41	0.44	-	0.42	0.42	-	0.10
Orthophosphate as PO ₄		mg/L	1.29	1.27	1.21	1.33	1.38	1.36	1.24	1.34	-	1.27	1.29	-	0.31
Solids, Total		mg/L	180	204	208	153	155	174	194	135	194	205	186	-	1
Solids, Total Dissolved	500 S	mg/L	192	236	154	176	166	146	210	100	160	192	190	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	341	371	354	263	276	300	311	233	324	315	296	-	0
Sulfate	250 S	mg/L	41.1	44.8	44.7	30.3	26.5	16.6	24.0	10.8	16.7	20.9	17.6	-	5.0
Taste		Units	2	2	2	2	2	2	1	2	2	2	2	-	1
Temperature		°C	5.3	4.0	7.7	11.2	20.0	24.7	26.5	25.0	27.3	23.4	17.1	-	N/A
Threshold Odor Number	3 S	Units	11	3	3	4	6	1	7	5	9	7	3	-	0
Total Organic Carbon		mg/L	1.6	1.4	1.3	1.2	1.6	1.8	1.7	2.4	2.0	1.4	1.9	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.05	0.10	0.10	0.10	0.10	0.15	0.15	0.10	-	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

- Not sampled

* Analysis pending



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Metal Analyses

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Parameter	MCL ¹	Units ²	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Quant Limit ³
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	71.6	-	-	52.2	-	-	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	35.1	-	-	32.7	-	-	46.5	-	-	BQL	-	-	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	34.3	-	-	30.4	-	-	30.4	-	-	29.7	-	-	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	8.1	-	-	6.7	-	-	8.1	-	-	7.3	-	-	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	2.2	-	-	1.7	-	-	2.8	-	-	2.1	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	1.8	-	-	2.0	-	-	3.0	-	-	6.1	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	14.7	16.2	13.2	11.3	13.7	15.5	12.7	13.0	14.9	11.0	16.2	-	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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