



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2016 TO 12/31/2016

Distribution Site Representing Corbalis Treatment Plant

Date Report Generated: 12/09/2016

Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Quant Limit <sup>3</sup>
Aggressive Index Number		Units	12	11	11	11	11	11	11	12	11	11	12	-	N/A
Alkalinity, Bicarbonate		mg/L	78	54	72	69	60	85	97	104	84	95	168	-	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	78	54	72	69	60	85	97	104	84	95	168	-	0
Bromide		mg/L	0.03	0.02	0.02	0.02	BQL	BQL	0.02	0.02	0.03	0.02	0.03	-	0.01
Carbon Dioxide		mg/L	3	3	4	9	5	4	8	7	5	10	11	-	N/A
Chloride	250 S	mg/L	21.6	74.1	39.2	47.8	17.7	22.4	23.7	30.3	36.8	32.4	33.2	-	5.0
Chlorine, Free		mg/L	0.0	0.1	0.2	3.2	3.3	2.9	0.4	0.3	0.2	0.3	0.2	-	0.0
Chlorine, Total		mg/L	3.4	3.5	3.7	3.7	3.5	3.2	3.5	3.5	3.4	2.6	3.3	-	0.0
Color	15 S	Units	0	0	2.5	0	0	0	0	0	0	0	0	-	0
Dissolved Oxygen		mg/L	16.3	-	13.4	16.7	14.1	11.5	12.6	7.2	9.9	10.5	10.2	-	0.0
Fluoride	4.0/2.0 P/S	mg/L	0.7	0.7	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.2
Hardness, Calcium		mg/L	83	60	71	74	55	74	102	112	91	110	122	-	10
Hardness, Total		mg/L	111	82	99	106	75	101	145	155	139	148	164	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.72	0.79	0.80	BQL	BQL	BQL	0.79	0.78	0.85	0.69	0.73	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.62	1.13	1.42	0.65	0.79	1.11	0.76	0.85	0.47	1.07	0.68	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	0.02	0.01	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.01	-	0.01
pH	6.5 - 8.5 S	Units	7.7	7.5	7.6	7.2	7.4	7.6	7.4	7.5	7.5	7.3	7.5	-	N/A
Phosphate as Phosphorous		mg/L	0.33	0.35	0.33	0.31	0.36	0.36	0.35	0.34	-	0.41	0.38	-	0.10
Orthophosphate as PO <sub>4</sub>		mg/L	0.99	1.05	1.02	0.95	1.11	1.11	1.07	1.04	-	1.26	1.16	-	0.31
Solids, Total		mg/L	188	228	193	201	124	151	236	261	253	240	267	-	1
Solids, Total Dissolved	500 S	mg/L	180	246	176	214	170	172	255	271	289	268	301	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	1
Specific Conductivity		µmhos/cm	303	400	318	365	208	289	406	424	426	439	472	-	0
Sulfate	250 S	mg/L	35.1	15.9	22.8	30.9	18.2	17.8	53.6	55.6	56.5	56.8	59.2	-	5.0
Taste		Units	2	2	2	2	2	2	1	2	2	2	1	-	1
Temperature		°C	5.0	4.3	10.8	13.7	16.2	25.7	29.4	30.2	27.6	20.4	17.6	-	N/A
Threshold Odor Number	3 S	Units	6	7	8	8	9	6	7	-	7	7	7	-	0
Total Organic Carbon		mg/L	1.6	1.7	1.1	1.3	1.6	1.6	1.5	2.0	3.0	2.4	1.8	-	0.5
Turbidity	≤ 5 P	NTU	0.05	0.05	0.05	0.10	0.10	0.05	0.10	0.10	0.10	0.10	0.10	-	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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Parameter	MCL <sup>1</sup>	Units <sup>2</sup>	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Quant Limit <sup>3</sup>
Aluminum	50 - 200 S	µg/L	BQL	-	-	BQL	-	-	66.8	-	-	39.0	-	-	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	28.3	-	-	38.7	-	-	52.3	-	-	36.2	-	-	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	33.2	-	-	28.9	-	-	43.0	-	-	44.3	-	-	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	7.5	-	-	8.8	-	-	11.6	-	-	10.4	-	-	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	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	2.1	-	-	2.1	-	-	3.0	-	-	3.6	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	3.0	-	-	2.0	-	-	2.6	-	-	2.3	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	12.9	38.5	19.9	24.1	10.4	13.2	16.6	20.7	26.8	22.4	23.0	-	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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