



Water Quality Laboratory

Inorganics Analyses

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

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/21/2018

Parameter	Units <sup>1</sup>	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 <sup>2</sup>
Aggressive Index Number	Units	12	12	12	12	11	11	11	11	11	11	12	-	N/A
Alkalinity, Bicarbonate	mg/L	76	97	104	72	70	67	98	72	103	103	98	-	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	76	97	104	72	70	67	98	72	103	103	98	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.06	0.05	0.02	0.02	0.02	0.03	0.03	0.02	0.03	0.03	0.03	0.02	0.01
Carbon Dioxide	mg/L	2	1	1	2	4	8	12	5	8	13	5	-	N/A
Chloride	mg/L	18.0	20.8	17.8	12.9	16.7	27.6	18.0	13.7	17.2	16.3	18.2	-	5.0
Color	Units	20	5.0	7.5	7.5	15	30	20	25	20	10	10	-	0
Dissolved Oxygen	mg/L	14.0	14.2	12.9	11.4	8.2	4.8	5.2	7.0	6.0	6.2	9.3	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	86	98	108	75	67	59	81	61	83	85	82	-	10
Hardness, Total	mg/L	120	136	141	101	94	85	122	82	111	111	114	-	10
Methylene Blue Activated Substances	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)	mg/L	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	-	0.20
N, Nitrate (Nitrate as N)	mg/L	1.57	1.24	1.56	1.14	0.64	0.64	0.74	0.98	0.99	1.25	1.24	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL	-	0.01
pH	Units	7.8	8.3	8.3	7.9	7.6	7.2	7.2	7.5	7.4	7.2	7.6	-	N/A
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	-	0.10
Orthophosphate as PO <sub>4</sub>	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	BQL	BQL	-	0.31
Solids, Total	mg/L	202	188	201	147	156	177	237	158	211	234	198	-	1
Solids, Total Dissolved	mg/L	216	192	176	152	144	124	216	90	160	202	208	-	1
Solids, Total Suspended	mg/L	33	2	1	3	16	18	30	25	22	31	14	-	1
Specific Conductivity	µmhos/cm	305	350	333	253	247	256	292	221	291	297	298	-	0
Sulfate	mg/L	34.9	32.9	32.8	25.8	20.6	10.6	16.6	11.3	15.7	15.9	19.4	-	5.0
Temperature	°C	3.6	3.8	6.2	11.6	20.6	25.7	26.2	26.0	27.5	24.0	14.7	-	N/A
Threshold Odor Number	Units	11	11	9	4	12	12	11	8	8	7	8	-	0
Total Organic Carbon	mg/L	2.6	2.3	1.8	1.8	3.4	5.0	2.9	3.9	3.5	2.5	2.3	-	0.5
Turbidity	NTU	28	2.8	2.5	3.2	11	18	26	20	21	7.7	4.3	-	0.05

BQL = The lowest quantitation limit of all analyses for the particular parameter: Below Quantitation Limit

<sup>1</sup>mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

<sup>2</sup>Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

- Not sampled

\* Analysis pending



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Metal Analyses

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

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Parameter	Units <sup>1</sup>	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 <sup>2</sup>
Aluminum	µg/L	1440	-	-	61.6	-	-	-	-	-	600	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	39.7	-	-	34.2	-	-	52.0	-	-	54.6	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	35.1	-	-	30.7	-	-	32.3	-	-	36.2	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	BQL	BQL	BQL	42.4	30.0	62.7	79.3	60.9	77.0	69.8	-	25.0
Iron	µg/L	1210	117	119	112	662	803	1520	1330	1090	1320	644	-	25.0
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	8.2	-	-	6.9	-	-	9.1	-	-	9.2	-	-	1.0
Manganese	µg/L	63.8	BQL	BQL	BQL	64.5	122	149	93.5	99.7	160	75.4	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	2.4	-	-	1.7	-	-	2.9	-	-	2.8	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	3.6	-	-	1.8	-	-	4.4	-	-	8.4	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	11.2	13.6	10.8	8.3	10.2	16.0	10.5	9.0	10.7	9.9	11.8	-	1.0
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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<sup>1</sup>mg/L = milligrams per liter, µg/L = micrograms per liter

<sup>2</sup>Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

\* Analysis pending