



Water Quality Laboratory

Inorganics Analyses

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

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 1/06/2020

Parameter	Units ¹	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Limit ²
Aggressive Index Number	Units	11	11	12	12	11	12	12	12	12	12	12	-	N/A
Alkalinity, Bicarbonate	mg/L	76	69	85	90	83	100	100	115	134	137	131	-	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	69	85	90	83	100	100	115	134	137	131	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.02	0.03	0.03	0.03	0.02	0.02	0.05	0.03	0.04	0.04	0.02	0.04	0.01
Carbon Dioxide	mg/L	6	14	3	2	17	3	3	1	2	2	3	-	N/A
Chloride	mg/L	11.6	45.7	25.8	25.4	14.0	21.9	12.3	15.9	18.3	22.8	18.9	-	5.0
Color	Units	15	15	7.5	15	25	10	10	7.5	7.5	7.5	10	-	0
Dissolved Oxygen	mg/L	10.5	8.2	10.3	8.8	5.5	7.7	7.3	7.5	8.5	9.0	12.1	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	66	82	78	76	71	84	101	101	120	125	125	-	10
Hardness, Total	mg/L	88	119	111	113	101	122	149	148	175	191	171	-	10
Methylene Blue Activated Substances	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)	mg/L	BQL	BQL	BQL	BQL	0.25	BQL	BQL	BQL	BQL	BQL	BQL	-	0.20
N, Nitrate (Nitrate as N)	mg/L	1.47	1.26	1.20	0.98	0.96	1.03	1.38	0.89	1.07	1.14	1.46	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	0.01	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	Units	7.4	7.0	7.7	7.9	7.0	7.9	7.8	8.3	8.2	8.2	8.0	-	N/A
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.10
Orthophosphate as PO ₄	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.31
Solids, Total	mg/L	170	227	218	152	192	186	235	200	245	246	215	-	1
Solids, Total Dissolved	mg/L	190	192	156	158	144	170	178	86	230	252	254	-	1
Solids, Total Suspended	mg/L	3	3	39	11	83	7	36	8	9	4	BQL	-	1
Specific Conductivity	µmhos/cm	228	377	297	299	246	312	328	352	401	433	389	-	0
Sulfate	mg/L	15.9	17.4	17.4	16.0	15.9	20.1	37.3	34.7	41.8	47.6	35.1	-	5.0
Temperature	°C	8.8	7.5	9.6	14.6	18.7	22.7	26.2	26.3	26.6	25.4	7.5	-	N/A
Threshold Odor Number	Units	-	11	8	9	12	8	8	9	7	10	9	-	0
Total Organic Carbon	mg/L	2.2	2.4	2.3	2.1	3.4	2.2	2.6	2.3	1.9	1.7	2.7	-	0.5
Turbidity	NTU	19	7.1	28	11	50	6.6	31	7.4	7.5	4.0	1.3	-	0.05

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

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

²Quant 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	Units ¹	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Limit ²
Aluminum	µg/L	674	-	-	347	-	-	1140	-	-	134	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	42.3	-	-	45.1	-	-	67.7	-	-	56.8	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	27.2	-	-	32.3	-	-	44.0	-	-	50.4	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	34.4	34.7	51.1	66.8	33.5	25.3	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	µg/L	1240	1020	2200	858	4600	407	1520	343	334	287	65.8	-	25.0
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	6.8	-	-	9.2	-	-	10.5	-	-	16.0	-	-	1.0
Manganese	µg/L	117	492	276	175	476	52.4	94.0	28.6	29.4	39.0	BQL	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	2.2	-	-	2.2	-	-	2.9	-	-	3.6	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	6.0	-	-	2.5	-	-	5.0	-	-	2.0	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	7.6	25.8	15.1	14.5	9.5	13.4	8.6	10.5	12.5	15.1	12.6	-	1.0
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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¹mg/L = milligrams per liter, µg/L = micrograms per liter

²Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending