



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2022 TO 12/31/2022

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 1/04/2023

Parameter	Units <sup>1</sup>	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Limit <sup>2</sup>
Aggressive Index Number	Units	12	12	12	12	11	12	12	12	12	12	12	-	N/A
Alkalinity, Bicarbonate	mg/L	84	109	87	75	65	109	124	125	98	132	136	-	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	84	109	87	75	65	109	124	125	98	132	136	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.06	0.03	0.01	BQL	0.01	0.02	0.03	0.04	0.03	0.04	0.02	0.02	0.01
Carbon Dioxide	mg/L	1	1	1	2	3	3	3	3	3	2	2	-	N/A
Chloride	mg/L	12.7	20.7	13.9	12.2	16.5	14.4	17.6	23.5	25.1	24.3	23.9	-	5.0
Color	Units	5.0	2.5	5.0	7.5	10	5.0	5.0	2.5	7.5	5.0	5.0	-	0
Dissolved Oxygen	mg/L	14.0	13.4	11.0	9.9	9.0	7.5	6.8	4.8	6.8	9.6	8.9	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	87	99	82	70	59	96	110	119	98	130	130	-	10
Hardness, Total	mg/L	119	137	112	96	79	133	154	178	137	183	190	-	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	BQL	-	0.20
N, Nitrate (Nitrate as N)	mg/L	1.30	1.41	1.18	0.84	1.03	0.97	0.90	0.89	0.77	1.12	0.72	-	0.20
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.01
pH	Units	8.2	8.2	8.1	7.9	7.6	7.8	7.9	7.9	7.8	8.2	8.2	-	N/A
Phosphate as Phosphorous	mg/L	BQL	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	BQL	-	0.31
Solids, Total	mg/L	167	206	177	176	155	229	218	322	226	276	289	-	1
Solids, Total Dissolved	mg/L	160	180	152	126	150	144	220	228	200	226	244	-	1
Solids, Total Suspended	mg/L	4	14	13	28	20	61	2	38	22	13	42	-	1
Specific Conductivity	µmhos/cm	293	331	267	235	220	301	363	411	347	434	427	-	0
Sulfate	mg/L	38.4	32.6	27.2	21.5	13.6	23.5	29.2	44.7	31.9	49.2	43.9	-	5.0
Temperature	°C	3.3	4.0	10.0	12.4	17.4	23.6	25.0	27.7	25.3	16.8	16.0	-	N/A
Threshold Odor Number	Units	12	6	8	8	12	6	1	8	12	12	8	-	0
Total Organic Carbon	mg/L	1.8	1.6	1.5	2.2	2.9	2.0	2.3	2.0	2.7	2.2	2.0	-	0.5
Turbidity	NTU	3.6	16	11	17	19	45	2.0	45	15	13	11	-	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



Water Quality Laboratory

Metal Analyses

Period of 01/01/2022 TO 12/31/2022

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 1/04/2023

Parameter	Units <sup>1</sup>	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Limit <sup>2</sup>
Aluminum	µg/L	114	-	-	498	-	-	40.5	-	-	297	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	33.9	-	-	38.7	-	-	48.9	-	-	53.4	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	34.7	-	-	28.7	-	-	45.3	-	-	52.8	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	BQL	68.0	BQL	51.4	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	µg/L	206	511	485	912	1010	2310	68.1	2370	477	623	2260	-	25.0
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	8.9	-	-	7.0	-	-	12.3	-	-	12.5	-	-	1.0
Manganese	µg/L	BQL	29.3	37.7	65.5	59.0	176	BQL	127	40.3	61.1	158	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	1.8	-	-	1.8	-	-	3.0	-	-	3.1	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	2.1	-	-	2.2	-	-	3.8	-	-	2.1	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	8.4	11.3	8.5	7.7	10.1	8.7	12.3	14.5	14.0	14.7	14.6	10.1	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