



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2025 TO 12/31/2025

Occoquan Reservoir - Griffith Water Treatment Plant Source Water

Date Report Generated: 1/06/2026

Parameter	Units ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Limit ²
Aggressive Index Number	Units	12	-	11	11	11	11	10	-	10	11	11	-	N/A
Alkalinity, Bicarbonate	mg/L	80	-	39	65	61	60	42	43	57	71	77	-	0
Alkalinity, Carbonate	mg/L	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
Alkalinity, Phenolphthalein	mg/L	0	-	0	0	0	0	0	0	0	0	0	-	0
Alkalinity, Total	mg/L	80	-	39	65	61	60	42	43	57	71	77	-	0
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.05	0.04	0.02	0.04	0.03	0.03	0.02	0.02	0.03	0.04	0.05	0.05	0.01
Carbon Dioxide	mg/L	3	-	4	4	10	10	13	-	11	23	12	-	N/A
Chloride	mg/L	46.5	-	110.0	98.6	71.1	51.3	22.1	21.8	30.1	42.1	50.5	-	5.0
Color	Units	10	-	30	15	25	25	40	30	25	10	10	-	0
Dissolved Oxygen	mg/L	11.3	-	10.0	8.6	4.2	5.7	4.2	-	3.9	2.7	6.7	-	0.0
Fluoride	mg/L	0.4	-	BQL	0.2	BQL	BQL	BQL	BQL	BQL	0.3	0.4	-	0.2
Hardness, Calcium	mg/L	106	-	58	90	74	65	35	38	55	84	103	-	10
Hardness, Total	mg/L	135	-	86	125	103	91	51	53	76	111	133	-	10
Methylene Blue Activated Substances	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.20
N, Nitrate (Nitrate as N)	mg/L	1.56	-	0.79	1.20	0.84	0.94	0.38	0.28	0.48	1.23	1.69	-	0.20
N, Nitrite (Nitrite as N)	mg/L	0.01	-	BQL	0.01	0.04	0.01	0.02	0.01	0.04	0.1	0.06	-	0.01
pH	Units	7.7	-	7.3	7.5	7.1	7.1	6.8	-	7.0	6.8	7.1	-	N/A
Phosphate as Phosphorous	mg/L	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	-	0.31
Solids, Total	mg/L	-	-	321	315	-	-	121	-	-	229	204	-	1
Solids, Total Dissolved	mg/L	-	-	280	306	-	-	136	-	-	220	272	-	1
Solids, Total Suspended	mg/L	-	-	2	4	-	-	3	-	-	2	4	-	1
Specific Conductivity	µmhos/cm	447	-	498	537	428	343	175	185	264	384	466	-	0
Sulfate	mg/L	60.8	-	15.2	34.3	26.2	20.5	8.8	9.5	21.0	42.1	60.1	-	5.0
Temperature	°C	4.5	-	7.0	13.6	17.9	21.9	25.0	-	22.6	21.9	15.6	-	N/A
Threshold Odor Number	Units	-	-	-	-	-	-	-	-	-	-	-	-	0
Total Organic Carbon	mg/L	3.8	-	5.2	4.2	6.0	5.4	6.2	6.2	5.4	5.0	4.0	-	0.5
Turbidity	NTU	2.6	-	12	3.1	4.1	1.6	5.3	4.1	2.7	2.8	4.0	-	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



Water Quality Laboratory

Metal Analyses

Period of 01/01/2025 TO 12/31/2025

Occoquan Reservoir - Griffith Water Treatment Plant Source Water

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Parameter	Units ¹	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Limit ²
Aluminum	µg/L	42.6	-	-	61.0	-	-	185	-	-	26.1	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	41.3	-	-	42.1	-	-	30.7	-	-	54.3	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	39.8	-	-	35.3	-	-	13.8	-	-	32.2	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	µg/L	97.3	-	626	119	185	121	440	227	96.9	105	188	-	25.0
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	8.3	-	-	8.6	-	-	4.1	-	-	6.6	-	-	1.0
Manganese	µg/L	76.1	-	80.3	53.2	86.3	35.2	300	212	309	329	251	-	25.0
Mercury	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	8.1	-	-	4.8	-	-	3.3	-	-	7.1	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	2.5	-	-	2.3	-	-	3.7	-	-	3.6	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	30.6	69.5	63.0	53.0	39.8	28.9	12.9	11.1	17.6	26.0	33.2	34.4	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