Fairfax Water

Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2015 TO 12/31/2015

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/28/2015

Parameter	Units[1]	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Quant Limit[2]
Aggressive Index Number	Units	12	12	11	11	11	13	12	12	13	11	12	-	N/A
Alkalinity, Bicarbonate	mg/L	108	104	47	59	84	99	99	114	102	89	109	-	0
Alkalinity, Carbonate	mg/L	0	0	0	0	0	7	0	0	10	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	4	0	0	5	0	0	-	0
Alkalinity, Total	mg/L	108	104	47	59	84	106	99	114	112	89	109	-	0
Bromate	µg/L	BQL	BQL	-	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5
Bromide	mg/L	0.04	0.04	0.04	0.07	0.06	0.03	0.04	0.05	0.07	0.04	0.03	0.03	0.01
Carbon Dioxide	mg/L	1	1	2	5	5	0	2	1	1	6	1	-	N/A
Chloride	mg/L	21.0	25.3	62.2	82.9	63.7	19.3	14.8	24.3	31.8	28.5	16.9	-	5.0
Color	Units	7.5	5.0	25	30	20	15	10	7.5	7.5	10	10	-	0
Dissolved Oxygen	mg/L	13.6	14.2	12.0	9.1	6.6	9.4	7.8	7.8	9.5	7.2	10.3	-	0.0
Fluoride	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	0.2
Hardness, Calcium	mg/L	106	109	58	69	86	95	96	103	107	80	99	-	10
Hardness, Total	mg/L	141	144	81	95	127	132	128	148	151	109	135	-	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	1.27	1.36	0.99	0.61	0.69	0.70	1.12	0.73	0.69	1.05	0.59	-	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	8.3	8.4	7.6	7.4	7.5	8.6	8.1	8.3	8.6	7.5	8.2	-	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	215	204	233	251	262	-	215	240	256	190	196	-	1
Solids, Total Dissolved	mg/L	214	-	202	220	234	-	210	252	244	202	204	-	1
Solids, Total Suspended	mg/L	23	-	40	6	13	-	19	8	3	3	10	-	1
Specific Conductivity	µmhos/cm	353	357	348	433	428	326	306	383	424	326	337	-	0
Sulfate	mg/L	31.3	35.2	13.8	13.3	20.0	29.5	29.7	41.0	42.9	17.4	30.4	-	5.0
Temperature	℃	3.1	3.8	6.2	12.7	20.0	24.2	26.6	27.3	27.9	17.8	13.1	-	N/A
Threshold Odor Number	Units	9	18	23	7	9	5	6	3	9	11	16	-	0
Total Organic Carbon	mg/L	2.1	2.2	-	4.3	2.8	3.0	2.5	2.3	2.3	2.8	2.5	-	0.5
Turbidity	NTU	2.2	1.3	30	11	9.5	5.6	16	7.2	2.4	5.0	4.7	-	0.05

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

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

[2]Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

- Not sampled

* Analysis pending

Fairfax Water

Water Quality Laboratory

Metal Analyses

Period of 01/01/2015 TO 12/31/2015

Potomac River - Corbalis Water Treatment Plant Source Water

Date Report Generated: 12/28/2015

Parameter	Units[1]	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Quant Limit[2]
Aluminum	µg/L	43.7	-	-	443	-	-	387	-	-	106	-	-	25.0
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	µg/L	40.2	-	-	56.8	-	-	48.0	-	-	46.9	-	-	25.0
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium	mg/L	43.1	-	-	29.3	-	-	40.1	-	-	33.9	-	-	1.0
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	25.0
Iron	µg/L	99.3	59.7	2150	793	636	175	764	217	88.9	343	341	-	25.0
Lead	µg/L	3.1	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium	mg/L	10.1	-	-	8.6	-	-	9.0	-	-	8.9	-	-	1.0
Manganese	µg/L	BQL	BQL	113	102	110	29.0	53.9	BQL	BQL	26.6	34.6	-	25.0
Mercury	µg/L	BQL	-	-	-	-	-	BQL	-	-	-	-	-	0.50
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium	mg/L	2.2	-	-	2.4	-	-	2.4	-	-	3.6	-	-	1.0
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon	mg/L	BQL	-	-	3.4	-	-	4.1	-	-	5.6	-	-	1.0
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium	mg/L	13.4	14.5	36.5	46.5	33.1	12.0	9.5	16.2	19.0	17.2	11.3	-	1.0
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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

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

[2]Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending