Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2014 TO 12/31/2014
Potomac River - Corbalis Water Treatment Plant Source

Parameter	Units [1]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit [2]	# of Tests
Aggressive Index Number	Units	12	11	12	12	-	-	12	-	13	13	13	-	12	13	11	-	8
Alkalinity, Bicarbonate	mg/L	130	70	76	94	-	-	106	-	122	126	133	-	108	133	70	0	8
Alkalinity, Carbonate	mg/L	0	0	6	0	-	-	0	-	0	0	0	-	0	0	0	0	8
Alkalinity, Hydroxyl	mg/L	0	0	0	0	-	-	0	-	0	0	0	-	0	0	0	0	8
Alkalinity, Phenolphthalein	mg/L	0	0	3	0	-	-	0	-	0	0	0	-	0	0	0	0	8
Alkalinity, Total	mg/L	130	70	82	94	-	-	106	-	122	126	133	-	108	133	70	0	8
Bromate	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	5	12
Bromide	mg/L	0.05	0.03	0.03	0.02	0.02	0.02	0.03	0.04	0.05	0.02	0.04	0.05	0.03	0.05	0.02	0.01	12
Carbon Dioxide	mg/L	1	9	1	1	-	-	3	-	1	1	1	-	2	9	1	-	8
Chloride	mg/L	22.6	35.1	14.2	14.4	-	-	24.6	-	27.1	21.0	25.6	-	23.1	35.1	14.2	5.0	8
Color	Units	8	30	12	13	-	-	17	-	10	20	15	-	16	30	8	0	8
Dissolved Oxygen	mg/L	14.7	11.9	12.9	9.8	-	-	6.8	-	10.3	9.8	11.0	-	10.9	14.7	6.8	0.0	8
Fluoride	mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	0.2	8
Hardness, Calcium	mg/L	121	59	81	88	-	-	83	-	112	117	131	-	99	131	59	10	8
Hardness, Total	mg/L	172	83	108	114	-	-	126	-	169	164	174	-	139	174	83	10	8
Methylene Blue Activated Substances	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	0.05	1
N, Ammonia (Ammonia as N)	mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	0.20	8
N, Nitrate (Nitrate as N)	mg/L	1.98	1.33	1.09	1.03	-	-	0.69	-	0.83	-	0.80	-	1.11	1.98	0.69	0.20	7
N, Nitrite (Nitrite as N)	mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	0.01	8
pH	Units	8.3	7.2	8.1	8.1	-	-	7.9	-	8.5	8.5	8.6	-	8.2	8.6	7.2	-	8
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	0.10	8
Orthophosphate as PO4	mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	0.31	8
Solids, Total	mg/L	243	175	169	185	-	-	209	-	257	232	262	-	217	262	169	1	8
Solids, Total Dissolved	mg/L	-	166	164	216	-	-	204	-	256	194	262	-	209	262	164	1	7
Solids, Total Suspended	mg/L	2	12	2	9	-	-	6	-	2	2	1	-	5	12	1	1	8
Specific Conductivity	µmhos/cm	406	275	267	255	-	-	313	-	414	382	445	-	345	445	255	0	8
Sulfate	mg/L	32.4	17.1	23.3	21.6	-	-	19.5	-	45.9	37.2	50.9	-	31.0	50.9	17.1	5.0	8
Temperature	°C	1.2	6.8	6.5	13.8	-	-	26.8	-	20.5	15.9	11.7	-	12.9	26.8	1.2	-	8
Threshold Odor Number	Units	9	3	8	11	-	-	15	-	7	9	9	-	9	15	3	0	8
Total Organic Carbon	mg/L	1.9	2.1	2.0	2.2	-	-	2.7	-	2.4	3.1	2.8	-	2.4	3.1	1.9	0.5	8
Turbidity	NTU	2.5	13	3.3	6.0	-	-	5.7	-	2.2	1.4	0.90	-	4.4	13	0.90	0.05	8

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

Report No: 010915143705

Fairfax Water

WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2014 TO 12/31/2014
Potomac River - Corbalis Water Treatment Plant Source

Parameter	Units [1]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit [2]	# of Tests
Aluminum	µg/L	115	-	-	256	-	-	139	-	-	58.1	-	-	142	256	58.1	25.0	4
Antimony	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Arsenic	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Barium	µg/L	42.7	-	-	40.9	-	-	43.0	-	-	46.4	-	-	43.3	46.4	40.9	25.0	4
Beryllium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Cadmium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Calcium	mg/L	48.5	-	-	-	-	-	35.4	-	-	48.5	-	-	44.1	48.5	35.4	1.0	3
Chromium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Copper	µg/L	BQL	BQL	BQL	BQL	-	-	26.7	-	BQL	BQL	BQL	-	BQL	26.7	BQL	25.0	8
Iron	µg/L	137	630	141	306	-	-	370	-	89.5	96.6	62.5	-	229	630	62.5	25.0	8
Lead	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Magnesium	mg/L	10.2	-	-	8.0	-	-	11.4	-	-	11.7	-	-	10.3	11.7	8.0	1.0	4
Manganese	µg/L	BQL	35.1	BQL	28.9	-	-	37.3	-	BQL	BQL	BQL	-	BQL	37.3	BQL	25.0	8
Mercury	µg/L	BQL	-	-	-	-	-	BQL	-	-	-	-	-	BQL	BQL	BQL	0.50	2
Nickel	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Potassium	mg/L	2.3	-	-	1.9	-	-	3.2	-	-	3.7	-	-	2.8	3.7	1.9	1.0	4
Selenium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Silicon	mg/L	2.3	-	-	1.4	-	-	4.1	-	-	1.3	-	-	2.3	4.1	1.3	1.0	4
Silver	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Sodium	mg/L	12.4	18.1	8.3	8.9	-	-	14.8	-	18.8	14.1	17.9	-	14.2	18.8	8.3	1.0	8
Thallium	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Zinc	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	25.0	4

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

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

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