Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2011 TO 12/31/2011
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	13	12	11	11	11	--	12	12	13	12	12	11	12	13	11	-	11
Alkalinity, Bicarbonate	mg/L	112	81	71	47	81	--	113	109	119	95	102	72	91	119	47	-	11
Alkalinity, Carbonate	mg/L	0	0	0	0	0	--	0	0	0	0	0	0	0	0	0	-	11
Alkalinity, Hydroxyl	mg/L	0	0	0	0	0	--	0	0	0	0	0	0	0	0	0	-	11
Alkalinity, Phenolphthalein	mg/L	0	0	0	0	0	--	0	0	0	0	0	0	0	0	0	-	11
Alkalinity, Total	mg/L	112	81	71	47	81	--	113	109	119	95	102	72	91	119	47	-	11
Bromide	mg/L	0.06	0.02	0.03	0.01	0.03	--	0.02	0.04	0.02	0.02	0.02	0.01	0.03	0.06	0.01	0.01	11
Carbon Dioxide	mg/L	0	1	4	5	3	--	2	2	1	2	1	3	2	5	0	-	11
Chloride	mg/L	38.4	28.5	24.9	9.7	19.6	--	18.4	27.7	17.9	13.6	15.8	7.9	20.2	38.4	7.9	5.0	11
Color	Units	13	21	21	148	30	--	20	30	20	23	16	19	33	148	13	0	11
Dissolved Oxygen	mg/L	14.1	12.5	10.7	9.6	7.5	--	7.9	7.8	8.6	9.6	11.9	11.8	10.2	14.1	7.5	0.0	11
Fluoride	mg/L	0.2	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.2	BQL	0.2	11
Hardness, Calcium	mg/L	99	84	63	45	73	--	107	99	113	96	111	77	88	113	45	-	11
Hardness, Total	mg/L	156	129	102	67	96	--	159	156	155	133	152	101	128	159	67	-	11
Methylene Blue Activated Substances	mg/L	--	--	--	--	--	--	BQL	--	--	--	--	--	BQL	BQL	BQL	0.05	1
N, Ammonia (Ammonia as N)	mg/L	BQL	--	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.20	10
N, Nitrate (Nitrate as N)	mg/L	1.5	1.9	1.1	0.8	0.8	--	0.9	0.6	1.8	0.9	1.4	1.3	1.2	1.9	0.6	0.2	11
N, Nitrite (Nitrite as N)	mg/L	0.01	0.09	0.01	0.01	0.01	--	0.01	0.01	0.01	BQL	BQL	BQL	0.01	0.09	BQL	0.01	11
pH	Units	9.0	8.2	7.6	7.3	7.7	--	8.0	8.1	8.4	8.0	8.4	7.7	8.0	9.0	7.3	-	11
Phosphate as Phosphorous	mg/L	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	0.10	11
Solids, Total	mg/L	236	214	168	282	202	--	224	248	263	209	211	186	222	282	168	1	11
Solids, Total Dissolved	mg/L	239	198	150	103	176	--	207	235	196	186	225	173	190	239	103	1	11
Solids, Total Suspended	mg/L	1	2	5	169	21	--	3	8	17	20	8	11	24	169	1	1	11
Specific Conductivity	µmhos/cm	426	353	294	155	273	--	364	418	364	297	--	221	317	426	155	0	10
Sulfate	mg/L	34.5	36.1	19.6	13.9	18.0	--	43.9	46.9	37.2	34.7	42.8	22.1	31.8	46.9	13.9	5.0	11
Temperature	°C	1.0	4.6	9.3	13.9	18.6	--	27.7	27.9	22.7	16.3	10.4	9.5	14.7	27.9	1.0	-	11
Threshold Odor Number	Units	8	11	4	11	6	--	7	5	8	3	6	3	7	11	3	0	11
Total Organic Carbon	mg/L	2.2	2.9	2.4	5.0	2.4	--	2.4	3.9	2.5	3.1	2.5	2.4	2.9	5.0	2.2	0.5	11
Turbidity	NTU	1.6	3.8	5.0	190	16	--	2.3	7.3	15	16	6.2	11	25	190	1.6	0.00	11

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: 011212121700

Fairfax Water

WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2011 TO 12/31/2011
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	25.7	--	--	7380	--	--	25.0	--	--	500	--	--	1981	7380	25.0	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	46.1	--	--	77.0	--	--	50.6	--	--	46.1	--	--	55.0	77.0	46.1	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	43.9	--	--	21.0	--	--	42.5	--	--	38.4	--	--	36.5	43.9	21.0	1.0	4
Chromium	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Copper	µg/L	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	40.1	BQL	BQL	40.1	BQL	25.0	11
Iron	µg/L	185	158	308	8660	1180	--	38.4	105	494	770	332	312	1140	8660	38.4	25.0	11
Lead	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	2.0	4
Magnesium	mg/L	12.2	--	--	5.2	--	--	12.4	--	--	9.4	--	--	9.8	12.4	5.2	1.0	4
Manganese	µg/L	25.4	BQL	43.8	256	135	--	BQL	60.0	239	45.2	BQL	27.0	75.6	256	BQL	25.0	11
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	3.7	--	--	4.8	--	--	3.0	--	--	2.7	--	--	3.6	4.8	2.7	1.0	4
Selenium	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Silicon	mg/L	2.0	--	--	--	--	--	2.6	--	--	3.6	--	--	2.7	3.6	2.0	1.0	3
Silver	µg/L	BQL	--	--	BQL	--	--	BQL	--	--	BQL	--	--	BQL	BQL	BQL	5.0	4
Sodium	mg/L	22.5	15.4	12.6	6.3	11.0	--	12.4	17.1	11.5	10.2	11.2	5.5	12.3	22.5	5.5	1.0	11
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

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

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