Fairfax Water

WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2004 TO 12/31/2004
Potomac River-Corbalis Water Treatment Plant Source

Parameter	MCL[1]	Units[2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aggressive Index Number		Units	--	11	11	11	11	11	--	12	11	12	11	--	11	12	11	-	9
Alkalinity, Bicarbonate		mg/L	--	63	55	61	76	94	--	108	64	104	82	--	79	108	55	-	9
Alkalinity, Carbonate		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	9
Alkalinity, Hydroxyl		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	9
Alkalinity, Phenolphthalein		mg/L	--	0	0	0	0	0	--	0	0	0	0	--	0	0	0	-	9
Alkalinity, Total		mg/L	--	63	55	61	76	94	--	108	64	104	82	--	79	108	55	-	9
Bromate		µg/L	BQL	--	--	BQL	--	--	--	--	--	--	--	--	BQL	BQL	BQL	5	2
Bromide		mg/L	--	0.01	0.02	0.01	0.03	0.02	0.02	0.02	0.02	0.03	0.02	0.06	0.02	0.06	0.01	0.01	11
Carbon Dioxide		mg/L	--	2	3	4	5	6	--	3	8	3	3	--	4	8	2	-	9
Chemical Oxygen Demand		mg/L	--	5.2	--	--	--	8.4	--	--	--	--	--	--	6.8	8.4	5.2	5.0	2
Chloride		mg/L	--	18.5	9.3	11.5	16.6	14.1	--	15.6	8.2	17.2	13.7	--	13.9	18.5	8.2	5.0	9
Color		Units	--	162	48	24	31	36	--	23	86	31	--	--	55	162	23	0	8
Dissolved Oxygen		mg/L	--	13.2	12.5	8.9	7.0	7.0	--	7.4	7.5	9.7	11.3	--	9.4	13.2	7.0	0.0	9
Fluoride		mg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	0.2	BQL	BQL	--	BQL	0.2	BQL	0.2	9
Hardness, Calcium		mg/L	--	72	64	60	70	91	--	94	70	90	76	--	76	94	60	-	9
Hardness, Total		mg/L	--	91	87	81	90	117	--	132	81	137	--	--	102	137	81	-	8
Methylene Blue Activated Substances		mg/L	--	--	--	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L	--	0.14	BQL	--	BQL	0.06	--	0.07	0.05	--	--	--	0.05	0.14	BQL	0.05	6
N, Nitrate (Nitrate as N)		mg/L	--	1.4	1.4	1.1	0.7	1.2	--	1.3	1.0	1.0	1.0	1.3	1.1	1.4	0.7	0.2	10
N, Nitrite (Nitrite as N)		mg/L	--	0.01	0.01	0.01	0.02	0.01	--	BQL	BQL	BQL	BQL	--	BQL	0.02	BQL	0.01	9
pH		Units	--	7.8	7.6	7.5	7.5	7.5	--	7.8	7.2	7.9	7.7	--	7.6	7.9	7.2	-	9
Phosphate as Phosphorous		mg/L	--	0.04	0.01	0.02	0.01	0.03	--	0.03	0.04	--	--	--	0.03	0.04	0.01	0.01	7
Solids, Fixed		mg/L	--	245	165	127	144	179	--	157	188	211	161	--	175	245	127	1	9
Solids, Total		mg/L	--	347	243	180	262	275	--	252	289	281	250	--	264	347	180	1	9
Solids, Total Dissolved		mg/L	--	142	124	94	147	159	--	186	127	159	150	--	143	186	94	1	9
Solids, Total Suspended		mg/L	--	200	77	24	23	42	--	20	87	6	4	--	54	200	4	1	9
Solids, Volatile		mg/L	--	102	78	53	118	96	--	95	101	70	--	--	89	118	53	1	8
Specific Conductivity		µmhos/cm	--	228	203	159	225	259	--	291	173	291	238	--	230	291	159	0	9
Sulfate		mg/L	--	21.4	27.6	15.2	14.2	18.4	--	21.7	12.8	18.4	22.6	--	19.1	27.6	12.8	5.0	9
Temperature		°C	--	4.4	8.7	17.6	22.4	22.8	--	24.6	17.6	12.6	9.6	--	15.6	24.6	4.4	-	9
Threshold Odor Number		Units	--	9	1	11	3	4	--	1	6	7	7	--	5	11	1	1	9
Total Organic Carbon		mg/L	--	3.8	2.1	2.1	2.8	2.6	--	2.7	5.2	2.5	3.1	--	3.0	5.2	2.1	0.5	9
Turbidity		NTU	--	120.0(	55.00	18.00	21.00	31.00	--	17.00	80.00	4.40	6.60	--	39.22	120.00	4.40	0.00	9

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

[1] Environmental Protection Agency/Virginia Department of Health established levels for drinking water
P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps, MCL=Maximum Contaminant Level.

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

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WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2004 TO 12/31/2004
Potomac River-Corbalis Water Treatment Plant Source

Parameter	MCL[1]	Units[2]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit	# of Tests
Aluminum		µg/L	--	1,570	--	--	811	--	--	BQL	--	--	--	--	794	1570	BQL	500	3
Antimony		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	3
Arsenic		µg/L	--	--	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	2	2
Barium		µg/L	--	46	--	--	--	--	--	76	--	--	--	--	61	76	46	10	2
Beryllium		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Cadmium		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Calcium		mg/L	--	30.6	--	--	25.9	--	--	36.7	--	--	30.2	--	30.9	36.7	25.9	0.5	4
Chromium		µg/L	--	3	--	--	1	--	--	1	--	--	--	--	2	3	1	1	3
Copper		µg/L	--	BQL	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	BQL	--	BQL	BQL	BQL	40	9
Iron		µg/L	--	5,647	2,760	1,087	1,021	1,641	--	654	2,504	298	357	--	1774	5647	298	60	9
Lead		µg/L	--	5.55	--	--	1.06	--	--	BQL	--	--	--	--	2.20	5.55	BQL	0.29	3
Magnesium		mg/L	--	3.2	--	--	7.9	--	--	10.9	--	--	--	--	7.3	10.9	3.2	0.5	3
Manganese		µg/L	--	236	165	58	81	109	--	73	163	27	26	--	104	236	26	25	9
Mercury		µg/L	--	BQL	--	--	BQL	--	--	--	--	--	--	--	BQL	BQL	BQL	0.5	2
Nickel		µg/L	--	8	--	--	BQL	--	--	BQL	--	--	--	--	BQL	8	BQL	5	3
Potassium		mg/L	--	2.8	--	--	2.4	--	--	3.1	--	--	--	--	2.8	3.1	2.4	0.5	3
Selenium		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	4	3
Silicon		mg/L	--	4	--	--	5	--	--	5	--	--	--	--	5	5	4	4	3
Silver		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	0.5	3
Sodium		mg/L	--	10.9	5.7	6.7	9.3	9.2	--	10.2	5.2	10.2	9.2	--	8.5	10.9	5.2	5.0	9
Thallium		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	1	3
Zinc		µg/L	--	BQL	--	--	BQL	--	--	BQL	--	--	--	--	BQL	BQL	BQL	25	3

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