FAIRFAX COUNTY WATER AUTHORITY
WATER QUALITY LABORATORY
INORGANIC AND METAL ANALYSES
PERIOD OF 01/01/2003 TO 12/31/2003
Distribution Site Representing Lorton Treatment Plants

Parameter	Maximum Contaminant Level [1]	Contaminant Type [2]	Units of Measure[3]	Average	Max	Min	Quantitation Limit	# of Tests
Aggressive Index Number			Units	11	12	10	-	8
Alkalinity, Bicarbonate			mg/L	47	84	33	-	8
Alkalinity, Carbonate			mg/L	0	0	0	-	8
Alkalinity, Hydroxyl			mg/L	0	0	0	-	8
Alkalinity, Phenolphthalein			mg/L	0	0	0	-	8
Alkalinity, Total			mg/L	47	84	33	-	8
Bromate	10	P	µg/L	BQL	BQL	BQL	10	2
Bromide			mg/L	BQL	0.01	BQL	0.01	8
Carbon Dioxide			mg/L	4	9	1	-	8
Chemical Oxygen Demand			mg/L	BQL	6.9	BQL	5.0	2
Chloride	250.0	S	mg/L	34.1	57.4	22.6	5.0	8
Chlorine, Free			mg/L	0.8	2.7	0.0	0.0	8
Chlorine, Total			mg/L	3.5	4.0	2.7	0.0	8
Color	15	S	Units	9	31	0	0	9
Dissolved Oxygen			mg/L	7.5	12.0	4.0	0.0	8
Fluoride	4.0/2.0	P/S	mg/L	0.9	1.1	0.8	0.2	8
Hardness, Calcium			mg/L	76	130	58	-	8
Hardness, Total			mg/L	94	144	74	-	8
Methylene Blue Activated Substances	0.5	S	mg/L	BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)			mg/L	0.80	1.23	BQL	0.05	8
N, Nitrate (Nitrate as N)	10	P	mg/L	0.9	1.9	0.6	0.2	8
N, Nitrite (Nitrite as N)	1	P	mg/L	BQL	0.02	BQL	0.01	8
pH	6.5-8.5	S	Units	7.4	7.9	7.0	-	8
Phosphate as Phosphorous			mg/L	0.46	0.93	0.32	0.20	7
Solids, Fixed			mg/L	144	182	112	1	8
Solids, Total			mg/L	213	258	144	1	8
Solids, Total Dissolved	500	S	mg/L	167	202	139	1	8
Solids, Total Suspended			mg/L	BQL	3	BQL	1	8
Solids, Volatile			mg/L	69	77	43	1	6
Specific Conductivity			µmhos/cm	265	343	214	0	8
Sulfate	250.0	S	mg/L	27.0	36.7	20.0	5.0	8
Taste			Units	2	3	1	1	8
Temperature			°C	17.9	25.4	11.3	-	8
Threshold Odor Number	3	S	Units	9	23	1	1	9
Total Organic Carbon			mg/L	2.8	3.5	1.9	0.5	8
Turbidity	≤5	P	NTU	0.72	3.70	0.15	0.00	9
Aluminum	50-200	S	µg/L	73	101	30	20	3
Antimony	6	P	µg/L	BQL	BQL	BQL	4	3
Arsenic	50	P	µg/L	BQL	BQL	BQL	2	3
Barium	2000	P	µg/L	37	48	32	10	3
Beryllium	4	P	µg/L	BQL	BQL	BQL	1.0	3
Cadmium	5	P	µg/L	BQL	BQL	BQL	1	3
Calcium			mg/L	32.0	40.9	26.4	0.5	3
Chromium	100	P	µg/L	BQL	BQL	BQL	1	3
Copper	1300	AL	µg/L	BQL	BQL	BQL	40	8
Iron	300	S	µg/L	BQL	110	BQL	60	8
Lead	15	AL	µg/L	0.29	0.88	BQL	0.29	3
Magnesium			mg/L	4.6	5.5	3.4	0.5	3
Manganese	50	S	µg/L	BQL	BQL	BQL	25	8
Mercury	2	P	µg/L	BQL	BQL	BQL	0.5	2
Nickel	100	P	µg/L	BQL	BQL	BQL	5	3
Potassium			mg/L	3.5	3.9	2.9	0.5	3
Selenium	50	P	µg/L	BQL	BQL	BQL	4	3
Silicon			mg/L	4	4	4	4	3
Silver	100	S	µg/L	BQL	BQL	BQL	0.5	3
Sodium			mg/L	14.6	26.8	8.2	5.0	8
Thallium	2	P	µg/L	BQL	BQL	BQL	2	3
Zinc	5000	S	µg/L	110	132	75	25	3

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
[2] P=Primary-enforceable, S=Secondary-non-enforceable, AL=Action Level on specific taps
[3] mg/L=milligrams per liter, µg/L=micrograms per liter