

WATER QUALITY LABORATORY **INORGANIC ANALYSES** PERIOD OF 01/01/2004 TO 12/31/2004

Distribution Site Representing Lorton Treatment Plants

		2																Quant	# of
Parameter	MCL ¹	Units ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Limit	Tests
Aggressive Index Number		Units		10	11	10	11	11		11	11	11	11		11	11	10	-	9
Alkalinity, Bicarbonate		mg/L		34	34	33	54	60		62	67	56	56		51	67	33	-	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		34	34	33	54	60		62	67	56	56		51	67	33	-	9
Bromide		mg/L		0.02	0.01	BQL	0.01	0.01		0.02	0.02	BQL	BQL		0.01	0.02	BQL	0.01	9
Carbon Dioxide		mg/L		5	3	4	8	8		12	5	4	6		6	12	3	-	9
Chemical Oxygen Demand		mg/L		BQL				BQL							BQL	BQL	BQL	5.0	2
Chloride	250.0 S	mg/L		91.2	42.2	32.5	30.6	33.4		38.4	37.1	28.1	31.2		40.5	91.2	28.1	5.0	9
Chlorine, Free		mg/L		0.1	0.4	3.5	2.6	3.6		0.2	0.3	0.0	0.3		1.2	3.6	0.0	0.0	9
Chlorine, Total		mg/L		3.9	4.1	3.7	2.4	3.5		3.3	3.9	2.0	3.5		3.4	4.1	2.0	0.0	9
Color	15 S	Units		2	1	1	2	5		11	2	2			3	11	1	0	8
Dissolved Oxygen		mg/L		13.7	13.8	8.7	5.1	5.0		3.7	4.6	4.7	8.9		7.6	13.8	3.7	0.0	9
Fluoride	4.0/2.0 P/S	mg/L		0.7	1.0	0.9	0.9	1.2		1.0	1.3	1.0	1.0	0.8	1.0	1.3	0.7	0.2	10
Hardness, Calcium		mg/L		73	64	60	75	97		95	96	80	86		81	97	60	-	9
Hardness, Total		mg/L		96	82	82	99	116		115	115	107			102	116	82	-	8
Methylene Blue Activated Substances	0.5 S	mg/L					BQL								BQL	BQL	BQL	0.050	1
N, Ammonia (Ammonia as N)		mg/L		1.21	0.90		BQL	0.07		1.04	1.12	0.97			0.76	1.21	BQL	0.05	7
N, Nitrate (Nitrate as N)	10 P	mg/L		1.2	1.0	0.8	1.0	1.5		1.0	1.3	1.0	1.3		1.1	1.5	0.8	0.2	9
N, Nitrite (Nitrite as N)	1 P	mg/L		0.02	BQL	BQL	BQL	BQL		BQL	BQL	0.01	BQL		BQL	0.02	BQL	0.01	9
pH	6.5-8.5 S	Units		7.1	7.4	7.2	7.1	7.2		7.0	7.4	7.5	7.3		7.2	7.5	7.0	-	9
Phosphate as Phosphorous		mg/L		0.51	0.48	0.46	0.37	0.37		0.30	0.31	0.38	0.38		0.40	0.51	0.30	0.20	9
Solids, Fixed		mg/L		188	123	109	187	168		171	177	152	166		160	188	109	1	9
Solids, Total		mg/L		302	206	220	269	271		228	247	219	203		241	302	203	1	9
Solids, Total Dissolved	500 S	mg/L		232	165	135	176	215		208	211	156	148		183	232	135	1	9
Solids, Total Suspended		mg/L		BQL	BQL	BQL	BQL	BQL		1	BQL	1	BQL		BQL	1	BQL	1	9
Solids, Volatile		mg/L		114	83	111	82	103		57	70	67			86	114	57	1	8
Specific Conductivity		µmhos/cm		408	279	197	271	321		334	329	274	289		300	408	197	0	9
Sulfate	250.0 S	mg/L		26.0	27.7	20.3	26.9	37.7		40.5	40.8	27.0	36.6		31.5	40.8	20.3	5.0	9
Taste		Units		3	3	4	2	3			3	1	3		3	4	1	1	8
Temperature		°C		12.0	15.3	17.5	22.2	23.8		25.0	22.6	19.7	19.0		19.7	25.0	12.0	-	9
Threshold Odor Number	3 S	Units		11	4	17	7	7		6	5	10	5		8	17	4	1	9
Total Organic Carbon		mg/L		2.7	1.6	2.1	2.4	1.9		2.2	2.2	2.5	2.5		2.2	2.7	1.6	0.5	9
Turbidity	≤5 P	NTU		0.20	0.15	0.30	0.25	0.45		1.00	0.70	0.55	0.20		0.42	1.00	0.15	0.00	9

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



WATER QUALITY LABORATORY METAL ANALYSES

PERIOD OF 01/01/2004 TO 12/31/2004

Distribution Site Representing Lorton Treatment Plants

						_		_										Quant	# of
Parameter	MCL ¹	Units ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Limit	Tests
Aluminum	50-200 S	μg/L		85			42			29				-	52	85	29	20	3
Antimony	6 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	4	3
Arsenic	50 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	2	3
Barium	2000 P	μg/L		61						50					56	61	50	10	2
Beryllium	4 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	3
Cadmium	5 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	3
Calcium		mg/L		30.2			36.0			36.3			34.4		34.2	36.3	30.2	0.5	4
Chromium	100 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	3
Copper	1300 AL	μg/L		BQL	BQL	BQL	BQL	BQL		BQL	BQL	BQL	BQL		BQL	BQL	BQL	40	9
Iron	300 S	μg/L		BQL	BQL	BQL	BQL	BQL		BQL	BQL	BQL	BQL		BQL	BQL	BQL	60	9
Lead	15 AL	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	0.29	3
Magnesium		mg/L		5.6			5.3			5.9					5.6	5.9	5.3	0.5	3
Manganese	50 S	μg/L		BQL	BQL	BQL	BQL	BQL		BQL	BQL	BQL	BQL		BQL	BQL	BQL	25	9
Mercury	2 P	μg/L		BQL			BQL								BQL	BQL	BQL	0.5	2
Nickel	100 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	5	3
Potassium		mg/L		3.7			2.7			4.4					3.6	4.4	2.7	0.5	3
Selenium	50 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	4	3
Silicon		mg/L		BQL			BQL			4					BQL	4	BQL	4	3
Silver	100 S	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	0.5	3
Sodium		mg/L		44.4	18.9	12.8	14.0	17.8		19.6	20.2	13.2	16.0		19.7	44.4	12.8	5.0	9
Thallium	2 P	μg/L		BQL			BQL			BQL					BQL	BQL	BQL	1	3
Zinc	5000 S	μg/L		133			117			140					130	140	117	25	3

Print Date: 2/24/2005 11:40 am

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

Environmental Protection Agency/Virginia Department of Health established levels for drinking water

P=Primary enforceable, S=Secondary per enforceable, Al = Action Level on specific tags, MCL = Maximum

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