



**WATER QUALITY LABORATORY
INORGANIC ANALYSES
PERIOD OF 01/01/2014 TO 12/31/2014
Distribution Site Representing Washington Aqueduct Service Area**

Parameter	MCL ¹	Units ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit ³	# of Tests
Aggressive Index Number		Units	12	12	12	11	-	-	12	-	12	12	12	-	12	12	11	-	8
Alkalinity, Bicarbonate		mg/L	66	58	63	71	-	-	88	-	94	100	103	-	80	103	58	0	8
Alkalinity, Carbonate		mg/L	0	0	0	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	0	0	-	-	0	-	0	0	0	-	0	0	0	0	8
Alkalinity, Total		mg/L	66	58	63	71	-	-	88	-	94	100	103	-	80	103	58	0	8
Bromide		mg/L	0.02	0.02	BQL	BQL	-	-	0.01	-	0.02	0.02	0.02	-	0.01	0.02	BQL	0.01	8
Carbon Dioxide		mg/L	2	1	1	3	-	-	3	-	2	2	3	-	2	3	1	-	8
Chloride	250.0 S	mg/L	49.1	83.1	41.7	35.2	-	-	38.2	-	43.4	40.9	42.1	-	46.7	83.1	35.2	5.0	8
Chlorine, Free		mg/L	0.0	0.0	2.4	3.0	-	-	0.3	-	0.2	0.1	0.0	-	0.8	3.0	0.0	0.0	8
Chlorine, Total		mg/L	3.5	3.3	3.0	3.2	-	-	3.1	-	3.1	3.6	3.2	-	3.3	3.6	3.0	0.0	8
Color	15 S	Units	1	3	3	1	-	-	1	-	0	0	2	-	1	3	0	0	8
Dissolved Oxygen		mg/L	13.7	12.6	11.1	9.9	-	-	8.2	-	8.8	10.0	10.8	-	10.6	13.7	8.2	0.0	8
Fluoride	4.0/2.0 P/S	mg/L	0.8	0.7	0.6	0.7	-	-	0.8	-	0.7	0.7	0.6	-	0.7	0.8	0.6	0.2	8
Hardness, Calcium		mg/L	83	80	84	87	-	-	98	-	112	118	121	-	98	121	80	10	8
Hardness, Total		mg/L	115	108	109	111	-	-	133	-	163	162	154	-	132	163	108	10	8
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	ND	-	-	-	-	-	ND	ND	ND	0.05	1
N, Ammonia (Ammonia as N)		mg/L	0.78	0.78	BQL	BQL	-	-	0.85	-	0.88	0.79	0.71	-	0.60	0.88	BQL	0.20	8
N, Nitrate (Nitrate as N)	10 P	mg/L	2.49	2.20	1.64	1.61	-	-	1.42	-	1.09	1.48	1.36	-	1.66	2.49	1.09	0.20	8
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	0.01	8
pH	6.5-8.5 S	Units	7.9	7.9	8.2	7.7	-	-	7.8	-	8.0	8.1	7.8	-	7.9	8.2	7.7	-	8
Phosphate as Phosphorous		mg/L	0.78	0.77	0.75	0.75	-	-	0.76	-	0.75	0.77	0.75	-	0.76	0.78	0.75	0.10	8
Orthophosphate as PO4		mg/L	2.37	2.35	2.30	2.27	-	-	2.32	-	2.30	2.34	2.29	-	2.32	2.37	2.27	0.31	8
Solids, Total		mg/L	248	280	220	227	-	-	257	-	291	267	271	-	258	291	220	1	8
Solids, Total Dissolved	500 S	mg/L	-	250	262	256	-	-	256	-	296	226	262	-	258	296	226	1	7
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	1	8
Specific Conductivity		µmhos/cm	410	504	368	334	-	-	376	-	470	457	463	-	423	504	334	0	8
Sulfate	250.0 S	mg/L	41.2	39.6	37.1	33.7	-	-	42.3	-	66.5	56.8	55.7	-	46.6	66.5	33.7	5.0	8
Taste		Units	1	2	2	2	-	-	3	-	4	3	4	-	3	4	1	1	8
Temperature		°C	4.7	7.0	9.5	15.5	-	-	25.6	-	22.6	15.8	13.3	-	14.8	25.6	4.7	-	8
Threshold Odor Number	3 S	Units	7	7	1	6	-	-	8	-	3	3	1	-	5	8	1	0	8
Total Organic Carbon		mg/L	1.4	1.5	1.3	1.7	-	-	1.8	-	1.8	2.2	1.8	-	1.7	2.2	1.3	0.5	8
Turbidity	≤ 5 P	NTU	0.15	0.10	0.10	0.10	-	-	0.15	-	0.10	0.10	0.10	-	0.11	0.15	0.10	0.05	8

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 at points of entry to the water distribution system

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, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

³ Quant Limit = Quantitation Limit = lowest level of measurement

Report No: 010915143705



**WATER QUALITY LABORATORY
METAL ANALYSES
PERIOD OF 01/01/2014 TO 12/31/2014
Distribution Site Representing Washington Aqueduct Service Area**

Parameter	MCL ¹	Units ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg	Max	Min	Quant Limit ³	# of Tests
Aluminum	50-200 S	µg/L	BQL	-	-	BQL	-	-	44.6	-	-	28.7	-	-	BQL	44.6	BQL	25.0	4
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Barium	2000 P	µg/L	31.2	-	-	32.6	-	-	40.4	-	-	37.2	-	-	35.4	40.4	31.2	25.0	4
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Calcium		mg/L	30.6	-	-	35.0	-	-	38.8	-	-	49.4	-	-	38.5	49.4	30.6	1.0	4
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	8
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	8
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Magnesium		mg/L	7.2	-	-	7.3	-	-	9.3	-	-	10.3	-	-	8.5	10.3	7.2	1.0	4
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	-	-	BQL	-	BQL	BQL	BQL	-	BQL	BQL	BQL	25.0	8
Mercury	2 P	µg/L	BQL	-	-	-	-	-	BQL	-	-	-	-	-	BQL	BQL	BQL	0.50	2
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Potassium		mg/L	2.4	-	-	2.2	-	-	3.2	-	-	4.2	-	-	3.0	4.2	2.2	1.0	4
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Silicon		mg/L	3.2	-	-	1.8	-	-	2.2	-	-	2.5	-	-	2.4	3.2	1.8	1.0	4
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	5.0	4
Sodium		mg/L	28.1	47.7	24.9	21.1	-	-	24.0	-	28.3	25.6	25.7	-	28.2	47.7	21.1	1.0	8
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	2.0	4
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	BQL	BQL	BQL	25.0	4

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