



Water Quality Laboratory

Inorganics Analyses

Period of 01/01/2020 TO 12/31/2020

Distribution Site Representing Washington Aqueduct Service Area

Date Report Generated: 12/10/2020

Parameter	MCL ¹	Units ²	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Quant Limit ³
Aggressive Index Number		Units	11	12	11	11	11	11	11	12	12	12	-	-	N/A
Alkalinity, Bicarbonate		mg/L	67	74	70	61	50	65	82	84	83	95	-	-	0
Alkalinity, Carbonate		mg/L	0	0	0	0	0	0	0	0	0	0	-	-	0
Alkalinity, Hydroxyl		mg/L	0	0	0	0	0	0	0	0	0	0	-	-	0
Alkalinity, Phenolphthalein		mg/L	0	0	0	0	0	0	0	0	0	0	-	-	0
Alkalinity, Total		mg/L	67	74	70	61	50	65	82	84	83	95	-	-	0
Bromide		mg/L	0.02	0.02	0.01	BQL	BQL	BQL	BQL	0.01	0.01	0.01	-	-	0.01
Carbon Dioxide		mg/L	3	2	3	6	3	3	5	4	4	4	-	-	N/A
Chloride	250 S	mg/L	38.1	29.7	36.3	29.2	23.5	28.4	30.2	34.7	29.7	34.6	-	-	5.0
Chlorine, Free		mg/L	0.1	0.1	0.3	2.3	0.1	0.3	0.1	0.3	0.3	1.4	-	-	0.0
Chlorine, Total		mg/L	3.0	3.2	3.1	2.6	2.2	3.2	3.6	3.0	3.5	3.1	-	-	0.0
Color	15 S	Units	0	0	0	0	0	0	0	0	0	0	-	-	0
Dissolved Oxygen		mg/L	12.4	11.4	10.9	10.5	10.2	8.5	8.3	7.5	8.4	9.5	-	-	0.0
Fluoride	4.0 P / 2.0 S	mg/L	0.6	0.6	0.7	0.7	0.8	0.7	0.8	0.7	0.7	0.7	-	-	0.2
Hardness, Calcium		mg/L	90	84	83	73	62	75	87	98	99	101	-	-	10
Hardness, Total		mg/L	119	112	111	98	83	102	120	134	129	138	-	-	10
Methylene Blue Activated Substances	0.5 S	mg/L	-	-	-	-	-	-	BQL	-	-	-	-	-	0.05
N, Ammonia (Ammonia as N)		mg/L	0.77	0.78	0.84	BQL	0.54	0.83	0.84	0.74	1.04	0.96	-	-	0.20
N, Nitrate (Nitrate as N)	10 P	mg/L	1.97	2.05	1.58	1.49	1.04	1.04	0.95	0.82	0.98	0.83	-	-	0.20
N, Nitrite (Nitrite as N)	1 P	mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	0.01
pH	6.5 - 8.5 S	Units	7.7	7.8	7.7	7.3	7.5	7.7	7.5	7.6	7.6	7.7	-	-	N/A
Phosphate as Phosphorous		mg/L	0.78	0.73	0.72	0.70	0.73	0.74	0.75	0.72	0.80	0.74	-	-	0.10
Orthophosphate as PO ₄		mg/L	2.38	2.22	2.19	2.12	2.21	2.27	2.30	2.19	2.43	2.25	-	-	0.31
Solids, Total		mg/L	220	200	203	182	156	176	203	246	228	244	-	-	1
Solids, Total Dissolved	500 S	mg/L	234	188	212	142	144	198	224	260	228	248	-	-	1
Solids, Total Suspended		mg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	1
Specific Conductivity		µmhos/cm	356	332	344	301	267	318	369	393	371	405	-	-	0
Sulfate	250 S	mg/L	37.1	35.5	33.4	33.2	33.4	35.3	41.5	53.4	50.9	46.3	-	-	5.0
Taste		Units	2	3	2	2	2	2	2	2	2	2	-	-	1
Temperature		°C	6.9	9.4	13.3	15.2	16.6	24.9	28.1	28.6	25.6	21.2	-	-	N/A
Threshold Odor Number	3 S	Units	7	11	6	8	6	6	6	8	6	12	-	-	0
Total Organic Carbon		mg/L	1.8	1.1	1.4	1.4	1.5	1.7	1.4	1.7	1.8	1.5	-	-	0.5
Turbidity	≤ 5 P	NTU	0.10	0.10	0.10	0.10	0.05	0.10	0.10	0.10	0.15	0.10	-	-	0.05

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

¹Environmental 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

²mg/L = milligrams per liter, µg/L = micrograms per liter, µmhos/cm = micromhos per centimeter, NTU = Nephelometric Turbidity Units

³Quant Limit = Quantitation Limit : lowest level of measurement, N/A = not applicable

- Not sampled

* Analysis pending



Water Quality Laboratory

Metal Analyses

Period of 01/01/2020 TO 12/31/2020

Distribution Site Representing Washington Aqueduct Service Area

Date Report Generated: 12/10/2020

Parameter	MCL ¹	Units ²	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Quant Limit ³
Aluminum	50 - 200 S	µg/L	BQL	-	-	27.5	-	-	42.2	-	-	43.3	-	-	25.0
Antimony	6 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Arsenic	10 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Barium	2000 P	µg/L	28.2	-	-	30.0	-	-	38.6	-	-	38.3	-	-	25.0
Beryllium	4 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Cadmium	5 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Calcium		mg/L	33.8	-	-	28.6	-	-	35.0	-	-	40.1	-	-	1.0
Chromium	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Copper	1300 AL	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	25.0
Iron	300 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	25.0
Lead	15 AL	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Magnesium		mg/L	7.5	-	-	6.8	-	-	8.4	-	-	10.9	-	-	1.0
Manganese	50 S	µg/L	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	-	-	25.0
Mercury	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	0.50
Nickel	100 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Potassium		mg/L	2.4	-	-	2.2	-	-	2.8	-	-	3.4	-	-	1.0
Selenium	50 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Silicon		mg/L	2.7	-	-	2.4	-	-	3.0	-	-	1.6	-	-	1.0
Silver	100 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	5.0
Sodium		mg/L	19.8	19.3	19.7	17.3	15.6	17.0	22.3	22.2	20.3	21.3	-	-	1.0
Thallium	2 P	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	2.0
Zinc	5000 S	µg/L	BQL	-	-	BQL	-	-	BQL	-	-	BQL	-	-	25.0

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

¹Environmental 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

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

³Quant Limit = Quantitation Limit : lowest level of measurement

- Not sampled

* Analysis pending