



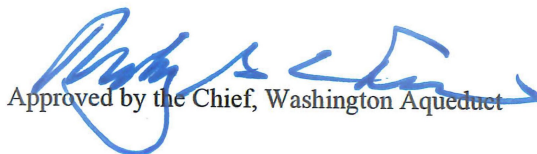
## **Washington Aqueduct**

## **U.S. ARMY Corps of Engineers**

# **Annual Report of Water Analysis 2022**

Prepared by:

Water Quality Laboratory  
Plant Operations Branch  
Washington Aqueduct  
5900 MacArthur Boulevard, NW  
Washington, D.C. 20016-2514

  
Approved by the Chief, Washington Aqueduct





# WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS

## ANNUAL REPORT OF WATER ANALYSIS (2022)

### Potomac River Raw Water Supply

	Miscellaneous Physical Parameters										Inorganic Ions									Microorganisms			
	pH	ALKALINITY	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TOTAL SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORGANIC CARBON	TURBIDITY	TOTAL AMMONIA - N	BROMIDE	CHLORIDE	FLUORIDE	NITRATE - N	NITRITE - N	ORTHOPHOSPHATE - PO4	PERCHLORATE	SULFATE	TOTAL COLIFORM	E. COLI	GIARDIA Great Falls Intake	CRYPTOSPORIDIUM Great Falls Intake
		ppm	uS/cm	ppm	ppm	ppm	°F	ppm	ppm	NTU	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	MPN/100mL	MPN/100mL	cysts/L	Oocysts/L
Jan	7.6	88	376	208	5	213	38	126	3.0	5	ND	0.04	54	0.13	1.8	ND	ND	ND	29	3946	307	0.38	0.10
Feb	7.9	78	292	180	4	184	42	107	3.3	8	ND	ND	32	0.12	1.9	ND	ND	ND	21	2054	44	---	---
Mar	8.0	85	321	183	3	186	50	108	2.3	4	ND	ND	33	0.13	1.4	ND	ND	0.2	22	319	9	---	---
Apr	7.8	80	308	129	21	150	56	97	2.9	6	---	ND	27	0.17	1.2	ND	ND	ND	18	1420	87	ND	ND
May	7.7	84	270	136	68	204	66	98	4.0	9	ND	ND	26	0.20	1.3	ND	ND	ND	17	8512	285	---	---
Jun	7.9	107	357	198	4	202	77	133	2.4	4	ND	ND	32	0.23	1.2	ND	ND	---	27	7955	234	---	---
Jul	8.0	111	381	223	17	240	82	133	3.6	5	ND	ND	37	0.19	0.9	ND	ND	0.2	29	35256	61	ND	ND
Aug	8.3	112	407	251	4	255	82	143	2.7	4	ND	ND	34	0.23	0.5	ND	ND	ND	38	8113	115	---	---
Sep	8.1	110	386	198	6	204	74	123	3.2	3	ND	ND	40	0.18	0.6	ND	ND	ND	28	3648	59	---	---
Oct	8.3	117	403	264	5	269	60	140	2.8	3	ND	ND	67	0.22	0.9	ND	ND	0.2	34	2041	35	0.46	0.09
Nov	8.1	116	396	252	ND	252	53	160	3.1	4	0.07	ND	39	0.24	1.0	ND	ND	0.2	33	2919	167	---	---
Dec	8.0	96	323	229	1	230	42	137	3.4	11	0.07	ND	32	0.26	1.8	ND	ND	0.3	26	19638	115	---	---

	Metals																								
	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MOLYBDENUM	NICKEL	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	ZINC
	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Jan	421	ND	ND	45	ND	ND	35	ND	0.6	2.5	671	0.8	3.5	9	63	ND	1.7	ND	ND	39	192	ND	ND	0.2	5.0
Feb	157	ND	ND	32	ND	ND	30	ND	ND	1.1	110	ND	2.2	8	19	ND	0.8	ND	ND	16	165	ND	ND	ND	2.4
Mar	235	ND	ND	37	ND	ND	31	ND	0.3	1.6	363	0.4	2.0	8	30	ND	1.4	ND	ND	18	130	ND	ND	ND	ND
Apr	896	ND	ND	42	ND	ND	27	3.1	1.4	3.8	1536	1.2	2.3	7	112	ND	4.3	ND	ND	14	123	ND	ND	ND	7.7
May	309	ND	ND	35	ND	ND	27	ND	0.7	2.6	621	0.6	1.7	8	64	ND	2.9	ND	ND	12	123	ND	ND	ND	4.2
Jun	264	ND	ND	46	ND	ND	39	ND	0.4	1.9	426	0.5	2.5	9	45	ND	1.3	ND	ND	13	171	ND	ND	0.2	3.0
Jul	113	ND	ND	44	ND	ND	38	ND	0.3	1.8	194	0.2	2.6	9	36	0.7	1.1	ND	ND	17	191	ND	ND	0.3	1.8
Aug	106	ND	ND	48	ND	ND	40	ND	0.2	1.4	99	ND	3.2	11	31	0.8	0.9	ND	ND	18	224	ND	ND	0.3	0.9
Sep	422	ND	ND	35	ND	ND	35	ND	0.6	2.7	689	1.5	1.3	9	68	0.6	2.4	ND	ND	18	97	ND	ND	ND	3.6
Oct	173	ND	ND	39	ND	ND	40	ND	0.2	1.7	220	0.3	1.9	10	43	0.7	1.0	ND	ND	20	167	ND	ND	0.3	2.0
Nov	64	ND	ND	43	ND	ND	46	ND	ND	1.2	50	ND	2.9	11	13	0.5	0.5	ND	ND	19	243	ND	ND	0.3	1.0
Dec	135	ND	ND	41	ND	ND	40	ND	ND	1.5	127	ND	2.2	9	19	0.7	0.8	ND	ND	16	209	ND	ND	ND	1.8



WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS  
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EPA MCL*  Units	Inorganic Ions									Metals																																		
	TOTAL AMMONIA - N	BROMIDE	CHLORIDE	FLUORIDE	NITRATE - N	NITRITE - N	ORTHOPHOSPHATE - PO4	PERCHLORATE	SULFATE	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	VANADIUM	ZINC							
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb				
Dalecarlia Water Treatment Plant Finished Water																																												
Jan	0.8	ND	65	0.5	1.7	ND	2.4	0.3	43	14	ND	ND	34	ND	ND	35	ND	ND	1.2	ND	ND	2.6	9	0.5	ND	ND	0.7	2.8	ND	ND	30	176	ND	ND	ND	ND	ND	ND	1.1					
Feb	0.8	ND	35	0.6	1.9	ND	2.4	0.3	35	31	ND	ND	33	ND	ND	30	ND	ND	1.0	ND	ND	1.5	8	0.7	ND	ND	0.7	---	ND	ND	24	166	ND	ND	ND	ND	ND	ND	1.2					
Mar	0.8	ND	38	0.6	1.4	ND	2.4	0.2	32	17	ND	ND	29	ND	ND	32	ND	ND	0.9	ND	ND	1.5	7	0.4	ND	ND	0.6	---	ND	ND	25	132	ND	ND	ND	ND	ND	ND	0.6					
Apr	---	ND	29	0.6	1.2	ND	2.5	0.2	34	24	ND	ND	34	ND	ND	29	ND	ND	0.9	ND	ND	1.7	6	0.6	ND	ND	0.5	---	ND	ND	20	149	ND	ND	ND	ND	ND	0.7						
May	0.8	ND	27	0.7	1.2	ND	2.6	0.2	34	26	ND	ND	33	ND	ND	26	ND	ND	0.8	ND	ND	1.7	6	0.5	ND	ND	0.6	---	ND	ND	23	148	ND	ND	ND	ND	ND	ND						
Jun	0.8	ND	34	0.7	1.2	ND	2.6	---	38	29	ND	ND	39	ND	ND	36	ND	ND	1.2	ND	ND	1.7	8	0.5	ND	ND	0.6	---	ND	ND	23	154	ND	ND	ND	ND	ND	ND						
Jul	0.8	ND	36	0.6	1.1	ND	2.5	0.3	46	46	ND	0.2	40	ND	ND	39	ND	ND	1.9	ND	ND	2.9	9	0.8	ND	0.7	0.7	---	ND	ND	24	181	ND	ND	ND	ND	ND	ND						
Aug	0.8	ND	38	0.7	0.5	ND	2.6	0.3	50	64	ND	0.4	45	ND	ND	42	ND	ND	1.1	ND	ND	2.4	9	1.0	ND	0.8	0.7	---	ND	ND	25	232	ND	ND	ND	0.7	ND	ND						
Sep	0.8	ND	36	0.7	0.7	ND	2.5	0.2	52	95	ND	0.4	46	ND	ND	44	ND	ND	0.9	ND	ND	2.5	9	1.3	ND	0.9	0.7	---	ND	ND	23	257	ND	ND	ND	1.0	ND	ND						
Oct	0.7	ND	41	0.6	0.9	ND	2.6	0.4	48	29	ND	ND	39	ND	ND	41	ND	ND	1.2	ND	ND	1.8	10	0.5	ND	0.8	0.7	---	ND	ND	26	215	ND	ND	ND	ND	ND	ND						
Nov	0.8	ND	41	0.6	0.9	ND	2.6	0.3	47	51	ND	0.2	41	ND	ND	45	ND	ND	1.4	ND	ND	1.9	10	0.6	ND	0.6	0.5	---	ND	ND	26	245	ND	ND	ND	ND	ND	0.8						
Dec	0.9	ND	35	0.6	1.7	ND	2.7	0.3	39	24	ND	ND	36	ND	ND	34	ND	ND	1.1	ND	ND	1.6	10	0.5	ND	0.6	0.5	---	ND	ND	23	193	ND	ND	ND	ND	ND	0.6						
McMillan Water Treatment Plant Finished Water																																												
Jan	0.8	ND	52	0.6	1.7	ND	2.5	0.3	45	23	ND	ND	37	ND	ND	31	ND	ND	5.3	ND	ND	2.2	9	ND	ND	ND	0.6	2.7	ND	ND	23	210	ND	ND	ND	ND	ND	1.4						
Feb	0.8	ND	44	0.6	1.9	ND	2.5	0.3	34	15	ND	ND	28	ND	ND	29	ND	ND	3.8	ND	ND	1.3	6	ND	ND	ND	0.6	---	ND	ND	22	136	ND	ND	ND	ND	ND	0.6						
Mar	0.7	ND	37	0.6	1.4	ND	2.4	0.2	32	16	ND	ND	28	ND	ND	28	ND	ND	3.3	ND	ND	1.4	6	ND	ND	ND	0.6	---	ND	ND	19	138	ND	ND	ND	ND	ND	0.6						
Apr	---	ND	34	0.7	1.2	ND	2.4	0.2	33	52	ND	ND	33	ND	ND	26	ND	ND	3.0	ND	ND	1.4	5	ND	ND	ND	0.5	---	ND	ND	18	150	ND	ND	ND	ND	ND	1.7						
May	0.8	ND	28	0.7	1.1	ND	2.4	0.2	33	55	ND	ND	33	ND	ND	23	ND	ND	2.6	40	ND	1.6	6	0.5	ND	ND	ND	---	ND	ND	18	141	ND	ND	ND	ND	ND	ND						
Jun	0.8	ND	35	0.7	1.1	ND	2.4	---	38	30	ND	ND	37	ND	ND	29	ND	ND	7.3	ND	ND	2.0	6	0.4	ND	ND	ND	---	ND	ND	20	136	ND	ND	ND	ND	ND	ND						
Jul	0.8	ND	38	0.7	0.9	ND	2.4	0.3	44	70	ND	0.2	43	ND	ND	36	ND	ND	7.1	ND	ND	2.4	8	0.5	ND	0.6	ND	---	ND	ND	21	199	ND	ND	ND	ND	ND	ND						
Aug	0.8	ND	40	0.7	0.5	ND	2.4	0.4	50	70	ND	0.3	44	ND	ND	37	ND	ND	9.3	ND	ND	2.3	9	0.4	ND	0.7	ND	---	ND	ND	24	215	ND	ND	ND	0.5	ND	ND						
Sep	0.8	ND	38	0.7	0.6	ND	2.4	0.4	49	67	ND	0.3	41	ND	ND	32	ND	ND	7.1	ND	ND	2.1	8	0.2	ND	0.8	ND	---	ND	ND	23	222	ND	ND	ND	0.7	ND	ND						
Oct	0.8	ND	41	0.7	0.8	ND	2.6	0.3	52	38	ND	ND	40	ND	ND	38	ND	ND	7.4	ND	ND	1.7	9	ND	ND	0.8	0.6	---	ND	ND	23	221	ND	ND	ND	ND	ND	ND						
Nov	0.8	ND	44	0.6	0.7	ND	2.6	0.3	51	53	ND	ND	40	ND	ND	37	ND	ND	7.9	ND	ND	2.3	8	ND	ND	0.6	ND	---	ND	ND	22	232	ND	ND	ND	ND	ND	ND						
Dec	0.7	ND	37	0.6	1.5	ND	2.7	0.3	41	25	ND	ND	39	ND	ND	30	ND	ND	4.4	ND	ND	1.8	9	0.5	ND	ND	0.5	---	ND	ND	21	194	ND	ND	ND	ND	ND	ND						



### Dalecarlia Water Treatment Plant Finished Water

### McMillan Water Treatment Plant Finished Water

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EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters  
ppb = Parts Per Billion  
ND = Not Detected  
"..." = No Analysis Required

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EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters  
 ppb = Parts Per Billion  
 ND = Not Detected  
 "..." = No Analysis Required  
 "..." = McMillan Water Treatment Plant out of service

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EPA MCL*	Synthetic Organic Compounds																																																						
	2,4-D	DALAPON	2,4-DB	DCPA MONO & DIACID DEGRADATE	2,4'-DDD	2,4'-DDE	2,4'-DDT	4,4'-DDD	4,4'-DDE	4,4'-DDT	DIBENZ(a,h)ANTHRACENE	DICAMBA	3,5-DICHLOROBENZOIC ACID	DICHLORPROP	DICHLORVOS (DDVP)	DIELDRIN	DIETHYLPHTHALATE	di-(2-ETHYLHEXYL)ADIPATE	di-(2-ETHYLHEXYL)PHTHALATE	DIMETHOATE	DIMETHYLPHTHALATE	DI-N-BUTYLPHTHALATE	DI-N-OCTYLPHTHALATE	2,4-DINITROTOLUENE	2,6-DINITROTOLUENE	DINOSEB	DIQUAT	ENDOTHALL	ENDRIN	ENDRIN ALDEHYDE	EPTC	FLUORANTHENE	FLUORENE	GLYPHOSATE	HEPTACHLOR	HEPTACHLOR EPOXIDE	HEXACHLOROBENZENE	HEXACHLOROCYCLOPENTADIENE	3-HYDROXYCARBOFURAN	INDENO(1,2,3-c,g)PYRENE	ISOPHORONE	LINDANE	ENDOSULFAN I (alpha)												
	70	200																400	6								7	20	100	2						700	0.4	0.2	1	50				0.2											
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb									
Dalecarlia Water Treatment Plant Finished Water																																																							
Jan	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Feb	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
Mar	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
Apr	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
May	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
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Jul	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Aug	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
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Oct	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Dec	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
McMillan Water Treatment Plant Finished Water																																																							
Jan	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Feb	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Mar	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Apr	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
May	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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Jul	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Aug	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters

ppb = Parts Per Billion

ND = Not Detected

"---" = No Analysis Required

"-" = McMillan Water Treatment Plant out of service



EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters  
 ppm = Parts Per Million (mg/L)  
 ppb = Parts Per Billion (µg/L)  
 ppt = Parts Per Trillion (ng/L)  
 ppq = Parts Per Quadrillion (pg/L)  
 ND = Not Detected  
 --- = No Analysis Required

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