



Washington Aqueduct

U.S. ARMY Corps of Engineers

Annual Report of Water Analysis 2018

Prepared by:

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Approved by the Chief, Washington Aqueduct





WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS

ANNUAL REPORT OF WATER ANALYSIS (2018)

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 <i>Great Falls Intake</i>	CRYPTOSPORIDIUM <i>Great Falls Intake</i>	GIARDIA <i>Little Falls Intake</i>	CRYPTOSPORIDIUM <i>Little Falls Intake</i>
		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	cysts/L	Oocysts/L
Jan	7.7	96	400	287	2	289	38	148	4.3	24	0.06	0.07	38	0.11	2.1	ND	ND	0.8	42	32401	222	ND	ND	ND	ND
Feb	7.7	62	292	164	85	249	43	99	3.8	22	0.06	0.03	37	ND	2.0	ND	ND	0.3	22	13849	132	0.35	0.35	1.05	0.29
Mar	7.6	78	332	187	6	193	47	118	2.2	11	ND	ND	37	ND	1.9	ND	ND	0.4	26	17770	24	0.37	0.09	0.56	0.28
Apr	7.6	64	245	176	12	188	56	100	3.7	19	0.06	ND	24	ND	1.4	ND	ND	0.3	22	39330	1606	0.74	0.09	0.93	0.19
May	7.5	73	248	138	291	429	71	102	2.7	25	0.06	0.02	17	ND	1.2	ND	ND	ND	21	56790	752	ND	ND	---	---
Jun	7.5	77	231	145	129	274	73	98	4.3	33	ND	ND	15	ND	1.3	ND	ND	ND	17	59389	2096	0.19	0.19	---	---
Jul	7.7	87	298	194	2	196	78	117	3.0	19	0.05	ND	25	ND	1.4	ND	ND	0.4	24	80846	553	ND	ND	---	---
Aug	7.7	85	256	172	30	202	76	99	3.6	19	ND	0.02	22	ND	1.6	ND	ND	0.3	15	61479	1623	ND	ND	---	---
Sep	7.5	78	248	141	169	310	72	102	5.1	22	ND	ND	16	ND	1.5	ND	ND	0.3	16	97250	1623	ND	ND	---	---
Oct	7.7	94	314	176	2	178	62	133	2.9	8	ND	ND	23	ND	2.2	ND	ND	0.4	26	38756	148	0.09	ND	---	---
Nov	7.5	68	231	133	26	159	48	97	3.9	15	ND	0.02	16	ND	1.8	ND	ND	0.3	15	39551	1235	1.14	0.10	---	---
Dec	7.8	68	242	210	5	215	44	109	2.5	19	0.06	ND	18	ND	2.1	ND	ND	0.3	20	5335	248	0.74	ND	---	---

	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	89	0.2	0.4	44	ND	ND	45	ND	ND	3.8	88	0.2	3.4	9	18	0.9	1.3	ND	ND	21	244	ND	ND	0.4	3.2
Feb	285	ND	ND	34	ND	ND	29	ND	0.2	2.0	288	0.4	1.3	6	47	0.6	1.1	ND	ND	20	117	ND	ND	ND	3.4
Mar	405	ND	ND	36	ND	ND	36	ND	0.4	1.5	429	0.5	1.7	7	61	0.3	1.5	ND	ND	20	116	ND	ND	ND	3.5
Apr	387	ND	ND	38	ND	ND	31	ND	0.6	2.7	560	0.8	1.8	6	66	0.4	1.6	ND	ND	16	110	ND	0.6	ND	5.3
May	269	ND	ND	38	ND	ND	31	ND	0.5	2.1	502	0.6	2.2	6	54	0.4	1.6	ND	ND	13	121	ND	ND	ND	3.5
Jun	1401	ND	ND	72	ND	ND	31	ND	2.7	5.0	2241	3.8	2.5	5	221	ND	5.6	ND	ND	11	89	ND	ND	0.3	15.5
Jul	227	0.2	0.3	46	ND	ND	36	ND	0.4	2.1	372	0.5	2.3	7	46	0.6	1.4	ND	ND	13	158	ND	0.8	0.3	3.6
Aug	1869	0.2	ND	49	ND	ND	30	3.0	2.7	5.2	3245	3.4	2.1	6	157	0.4	5.0	ND	ND	13	79	ND	1.2	0.3	11.7
Sep	247	ND	ND	47	ND	ND	31	ND	0.4	1.7	526	0.5	2.1	6	47	0.7	1.3	ND	ND	12	160	ND	ND	0.3	2.3
Oct	397	ND	0.3	44	ND	ND	41	ND	0.8	1.9	799	1.0	2.1	7	68	0.4	2.0	ND	ND	12	110	ND	ND	0.2	4.6
Nov	342	ND	ND	35	ND	ND	29	ND	0.5	1.7	611	0.7	1.5	6	56	0.4	1.3	ND	ND	11	101	ND	ND	ND	3.4
Dec	123	ND	ND	36	ND	ND	32	ND	ND	1.1	224	0.3	1.7	7	30	0.4	1.1	ND	ND	10	114	ND	ND	ND	2.4



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EPA MCL*	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	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	VANADIUM	ZINC		
				4	10	1					6	10	2000	4	5		100								2			50					2		30			
Units	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	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
Dalecarlia Water Treatment Plant Finished Water																																						
Jan	0.8	ND	43	0.6	2.0	ND	2.2	0.9	55	63	ND	0.2	38	ND	ND	44	ND	ND	1.4	ND	ND	2.7	9	1.4	ND	0.7	1.1	ND	ND	26	253	ND	ND	ND	ND	1.8		
Feb	0.8	ND	53	0.6	2.0	ND	2.4	0.3	41	23	ND	ND	22	ND	ND	35	ND	ND	0.8	ND	ND	1.4	6	1.0	ND	0.4	0.7	ND	ND	30	148	ND	ND	ND	ND	1.0		
Mar	0.7	ND	40	0.7	1.9	ND	2.4	0.3	39	33	ND	ND	32	ND	ND	39	ND	ND	0.8	ND	ND	1.4	7	0.7	ND	0.3	0.8	ND	ND	24	118	ND	ND	ND	ND	ND		
Apr	ND	ND	30	0.7	1.4	ND	2.4	0.3	38	35	ND	ND	31	ND	ND	32	ND	ND	0.8	ND	ND	1.8	6	0.5	ND	0.3	0.9	ND	ND	17	134	ND	ND	ND	ND	0.5		
May	0.8	ND	26	0.7	1.3	ND	2.3	0.3	39	37	ND	0.3	38	ND	ND	35	ND	ND	0.7	ND	ND	1.6	6	0.8	ND	0.4	0.8	ND	ND	18	139	ND	ND	ND	ND	0.5		
Jun	0.8	ND	20	0.7	1.3	ND	2.3	ND	36	28	ND	0.2	34	ND	ND	37	ND	ND	0.8	ND	ND	1.7	5	0.7	ND	0.4	0.9	ND	ND	17	98	ND	ND	ND	ND	ND		
Jul	0.8	ND	29	0.8	1.4	ND	2.3	0.4	41	43	ND	0.4	31	ND	ND	40	ND	ND	0.6	ND	ND	1.3	6	0.5	ND	0.5	0.5	ND	ND	21	121	ND	ND	ND	ND	ND		
Aug	0.7	ND	27	0.8	1.7	ND	2.2	0.3	38	25	ND	ND	37	ND	ND	40	ND	ND	0.9	ND	ND	1.3	6	0.9	ND	0.6	0.8	ND	ND	17	108	ND	ND	ND	ND	ND		
Sep	0.8	ND	24	0.7	1.6	ND	2.3	0.5	37	34	ND	ND	33	ND	ND	36	ND	ND	1.0	ND	ND	1.2	6	0.6	ND	0.6	0.7	ND	ND	18	122	ND	ND	ND	ND	ND		
Oct	0.8	ND	29	0.7	2.2	ND	2.3	0.3	40	23	ND	ND	35	ND	ND	41	ND	ND	0.7	ND	ND	1.1	6	0.6	ND	0.3	0.7	ND	ND	16	105	ND	ND	ND	ND	ND		
Nov	0.7	ND	24	0.6	1.7	ND	2.4	0.3	34	31	ND	ND	30	ND	ND	30	ND	ND	1.1	ND	ND	1.7	5	0.8	ND	0.4	0.9	ND	ND	18	102	ND	ND	ND	ND	0.7		
Dec	0.8	ND	24	0.6	2.1	ND	2.2	0.3	32	20	ND	ND	33	ND	ND	32	ND	ND	0.7	ND	ND	0.9	6	0.7	ND	0.2	0.9	ND	ND	19	116	ND	ND	ND	ND	ND		
McMillan Water Treatment Plant Finished Water																																						
Jan	0.7	ND	44	0.6	1.8	ND	2.5	0.5	56	13	ND	0.2	38	ND	ND	36	ND	ND	7.5	ND	ND	1.7	9	0.3	ND	0.8	1.1	ND	ND	27	221	ND	ND	ND	ND	0.9		
Feb	0.7	ND	48	0.6	2.1	ND	2.5	0.4	42	14	ND	ND	31	ND	ND	29	ND	ND	3.0	ND	ND	1.7	6	ND	ND	0.4	0.8	ND	ND	31	138	ND	ND	ND	ND	ND		
Mar	0.6	ND	36	0.7	1.9	ND	2.5	0.3	39	17	ND	ND	31	ND	ND	29	ND	ND	2.5	ND	ND	1.1	7	ND	ND	0.4	0.9	ND	ND	22	117	ND	ND	ND	ND	ND		
Apr	ND	ND	39	0.7	1.4	ND	2.5	0.3	37	32	ND	ND	29	ND	ND	28	ND	ND	2.4	ND	ND	1.3	7	ND	ND	0.4	0.7	ND	ND	24	162	ND	ND	ND	ND	0.5		
May	0.7	ND	26	0.8	1.2	ND	2.5	0.3	38	27	ND	0.2	37	ND	ND	27	ND	ND	6.1	ND	ND	1.9	6	ND	ND	0.4	0.7	ND	ND	20	137	ND	ND	ND	ND	ND		
Jun	0.7	ND	23	0.7	1.3	ND	2.5	0.2	40	29	ND	ND	38	ND	ND	31	ND	ND	6.8	ND	ND	1.4	6	0.6	ND	0.4	0.5	ND	ND	20	134	ND	ND	ND	ND	ND		
Jul	0.8	ND	29	0.8	1.2	ND	2.5	0.4	45	26	ND	ND	38	ND	ND	35	ND	ND	6.1	ND	ND	1.5	7	0.3	ND	0.4	0.8	ND	ND	21	130	ND	ND	ND	ND	ND		
Aug	0.8	ND	26	0.7	1.5	ND	2.4	0.4	38	14	ND	ND	33	ND	ND	22	ND	ND	7.4	ND	ND	1.8	6	ND	ND	0.4	0.8	ND	ND	22	95	ND	ND	ND	ND	0.5		
Sep	0.8	ND	24	0.7	1.5	ND	2.5	0.4	42	24	ND	ND	33	ND	ND	27	ND	ND	4.7	ND	ND	1.1	6	ND	ND	0.5	ND	ND	ND	20	144	ND	ND	ND	ND	ND		
Oct	0.8	ND	27	0.7	2.0	ND	2.4	0.3	43	47	ND	ND	33	ND	ND	28	ND	ND	10.2	ND	ND	1.2	6	22	ND	0.3	0.6	ND	ND	17	108	ND	ND	ND	ND	ND		
Nov	0.8	ND	25	0.7	1.8	ND	2.5	0.4	38	26	ND	ND	35	ND	ND	27	ND	ND	7.6	ND	ND	1.3	6	ND	ND	0.5	0.7	ND	ND	18	153	ND	ND	ND	ND	ND		
Dec	0.9	ND	23	0.7	2.0	ND	2.4	0.3	33	20	ND	ND	30	ND	ND	26	ND	ND	10.4	ND	ND	1.2	6	0.4	ND	0.2	0.7	ND	ND	17	102	ND	ND	ND	ND	0.8		



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EPA MCL*	Miscellaneous Physical Parameters										Microorganisms			Haloacetic Acids (HAAs)							Trihalomethanes (THMs)					Volatile Organic Compounds (VOCs)																				
	pH	ALKALINITY	CONDUCTIVITY	TEMPERATURE	CHLORINE	TOTAL HARDNESS	TOTAL ORGANIC CARBON	TOTAL DISSOLVED SOLIDS	TOTAL SUSPENDED SOLIDS	TURBIDITY (Average)*	TOTAL COLIFORM (% positive)	E. COLI (% positive)	HETEROTROPHIC PLATE COUNT	DIBROMOACETIC ACID	DICHLOROACETIC ACID	MONOBROMOACETIC ACID	MONOCHLOROACETIC ACID	TRICHLOROACETIC ACID	TOTAL HALOACETIC ACIDS	BROMOCHLOROACETIC ACID	CHLOROFORM	BROMODICHLOROMETHANE	CHLORODIBROMOMETHANE	BROMOFORM	TOTAL TRIHALOMETHANES	BENZENE	BROMOBENZENE	BROMOCHLOROMETHANE	BROMOMETHANE	tert-BUTYLBENZENE	sec-BUTYLBENZENE	n-BUTYLBENZENE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROMETHANE	2-CHLOROTOLUENE	4-CHLOROTOLUENE	DIBROMOMETHANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE					
Units		ppm	uS/cm	°F	ppm	ppm	ppm	ppm	ppm	NTU	%+	%+	CFU/ml	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	
																											5								5	100								75		
Dalecarlia Water Treatment Plant Finished Water																																														
Jan	7.7	91	430	38	3.7	146	2.1	303	ND	0.05	0.0	0.0	<1	---	---	---	---	---	---	---	9.4	8.0	3.45	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Feb	7.7	63	386	43	3.7	113	1.8	252	ND	0.04	0.0	0.0	1	ND	9.7	ND	1.3	10.0	21	2.1	11.7	5.7	1.1	ND	19	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar	7.7	71	365	47	3.7	126	1.5	204	ND	0.03	0.0	0.0	<1	---	---	---	---	---	---	---	9.2	5.7	1.4	ND	16	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr	7.7	63	316	56	3.3	104	1.6	196	1	0.04	0.0	0.0	<1	---	---	---	---	---	---	---	20.5	9.8	2.7	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May	7.7	70	314	71	3.5	113	1.8	192	2	0.03	0.8	0.0	<1	ND	12.6	ND	1.0	13.1	27	3.1	22.2	9.4	1.9	ND	34	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jun	7.7	75	291	73	3.7	113	2.5	202	ND	0.02	0.0	0.0	<1	---	---	---	---	---	---	---	26.4	8.8	1.3	ND	37	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jul	7.7	85	351	78	3.7	126	1.9	228	1	0.02	0.0	0.0	1	---	---	---	---	---	---	---	37.9	12.3	2.3	ND	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aug	7.7	81	333	76	3.7	125	2.2	212	ND	0.02	0.0	0.0	2	ND	16.9	ND	2.0	17.1	36	3.0	36.3	10.1	1.5	ND	48	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sep	7.7	76	322	72	3.7	113	2.1	180	4	0.02	0.0	0.0	2	---	---	---	---	---	---	---	39.1	6.7	0.5	ND	46	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oct	7.7	88	351	62	3.7	126	1.9	199	ND	0.02	0.0	0.0	<1	---	---	---	---	---	---	---	19.9	9.4	2.0	ND	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov	7.7	65	272	48	3.7	97	2.0	166	ND	0.02	0.0	0.0	<1	ND	8.8	ND	1.0	10.7	21	1.7	14.0	5.0	0.7	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dec	7.7	66	276	44	3.6	107	1.4	206	ND	0.02	0.0	0.0	<1	---	---	---	---	---	---	---	5.1	3.6	1.1	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
McMillan Water Treatment Plant Finished Water																																														
Jan	7.7	90	455	44	3.7	143	2.0	273	1	0.02	0.0	0.0	<1	---	---	---	---	---	---	---	8.5	8.7	3.9	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Feb	7.7	53	377	49	3.7	105	1.7	234	3	0.02	0.0	0.0	<1	ND	8.0	ND	1.3	8.1	17	2.6	8.9	6.2	1.7	ND	17	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar	7.7	58	329	50	3.6	109	1.5	170	ND	0.02	0.0	0.0	<1	---	---	---	---	---	---	---	9.9	5.6	1.3	ND	17	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr	7.7	59	333	56	3.1	106	1.6	195	2	0.02	0.0	0.0	<1	---	---	---	---	---	---	---	16.5	7.6	1.9	ND	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May	7.7	60	290	66	3.5	94	1.8	180	3	0.03	0.0	0.0	1	ND	14.5	ND	1.1	13.0	29	2.8	30.6	9.9	1.8	ND	42	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Jun	7.7	65	301	72	3.7	105	2.1	175	1	0.03	0.9	0.0	1	---	---	---	---	---	---	---	40.0	9.4	1.1	ND	51	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jul	7.7	78	350	77	3.7	127	2.1	217	ND	0.03	0.0	0.0	2	---	---	---	---	---	---	---	43.3	14.6	3.3	ND	61	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Aug	7.7	65	305	76	3.7	96	2.0	187	2	0.02	0.0	0.0	8	ND	20.0	ND	1.7	20.1	42	2.8	49.3	10.5	1.4	ND	61	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Sep	7.7	68	319	74	3.7	107	1.9	229	3	0.02	0.0	0.0	4	---	---	---	---	---	---	---	35.7	12.8	2.7	ND	51	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oct	7.7	70	317	67	3.7	117	1.7	175	ND	0.02	0.0	0.0	2	---	---	---	---	---	---	---	21.3	9.5	2.3	ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov	7.7	61	288	56	3.8	101	1.8	160	ND	0.02	0.0	0.0	3	ND	10.4	ND	ND	15.4	26	2.1	22.0	6.4	1.0	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dec	7.7	59	276	54	3.8	102	1.3	186	3	0.01	0.0	0.0	<1	---	---	---	---	---	---	---	6.7	4.4	1.2	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	



*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*	Synthetic Organic Compounds																																																						
	ACENAPHTHENE	ACENAPHTHYLENE	ACETOCHLOR	ACIFLOURFEN	ALACHLOR	ALDICARB	ALDICARB SULFONE	ALDICARB SULFOXIDE	ALDRIN	ANTHRACENE	AROCHLOR 1016 (PCBs)	AROCHLOR 1221 (PCBs)	AROCHLOR 1232 (PCBs)	AROCHLOR 1242 (PCBs)	AROCHLOR 1248 (PCBs)	AROCHLOR 1254 (PCBs)	AROCHLOR 1260 (PCBs)	TOTAL PCBs	ATRAZINE	BAYGON	BENTAZON	BENZ(a)ANTHRACENE	BENZO(b)FLUORANTHENE	BENZO(g,h,i)PERYLENE	BENZO(a)PYRENE	BENZO(K)FLUORATHENE	alpha-BHC	beta-BHC	delta-BHC	BROMACIL	BUTACHLOR	BUTYLBENZYL.PHTHALATE	CAFFEINE	CARBARYL	CARBOFURAN	alpha-CHLORDANE	gamma-CHLORDANE	CHLORDANE	CHLORPYRIFOS (DURSBAN)	CHLOROBENZILATE	CHLORONEB	CHLOROTHALONIL	CHRYSENE	2,4-D	DALAPON	2,4-DB									
	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	ppb								
Units					2													0.5	3															40				2								70	200								
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	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			
May	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Jun	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Jul	---	---	---	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	ND	---	---	---	---	---	---	---	---	---	ND	1.0	ND	---			
Aug	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	---	---	---	---	---				
Sep	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
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Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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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	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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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														



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EPA MCL*	Synthetic Organic Compounds																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	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,d)PYRENE	ISOPHORONE	LINDANE	ENDOSULFAN I (alpha)	ENDOSULFAN II (beta)	ENDOSULFAN SULFATE	MALATHION	METHIOCARB	METHOMYL	METHOXYCHLOR	METOLACHLOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	400	6	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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



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