



US Army Corps
of Engineers
Baltimore District



Washington Aqueduct

U.S. ARMY Corps of Engineers

Annual Report of Water Analysis 2010

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WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2010)

Potomac River Raw Water Supply

EPA MCL*	Miscellaneous Physical Parameters										Inorganic Ions									Microorganisms					
	pH	ALKALINITY	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORGANIC CARBON	TOTAL SOLIDS	TURBIDITY	TOTAL AMMONIA - N	BROMIDE	CHLORIDE	FLUORIDE	IODIDE	NITRATE - N	NITRITE - N	ORTHOPHOSPHATE - PO4	PERCHLORATE	SULFATE	ALGAE COUNT	TOTAL COLIFORM	E. COLI	GIARDIA	CRYPTOSPORIDIUM
	ppm	uS/cm	ppm	ppm	°F	ppm	ppm	ppm	NTU	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppb	ppm	org/mL	MPN / 100mL	MPN / 100mL	cysts / L	Oocysts / L	
Jan	7.8	67	328	159	12	45	114	2.2	171	20	0.05	ND	43	ND	4.0	2.5	ND	ND	ND	25	240	37	4	ND	ND
Feb	7.8	72	461	50	2	46	119	1.6	52	7	0.05	ND	56	0.10	---	2.2	ND	ND	ND	27	264	11	2	ND	ND
Mar	7.7	61	271	133	9	54	95	2.5	142	17	ND	ND	26	0.12	---	1.7	ND	ND	ND	25	464	2106	114	ND	ND
Apr	8.0	83	332	180	5	65	117	2.1	185	8	ND	ND	27	0.12	6.3	1.7	ND	ND	0.4	26	588	1171	50	ND	ND
May	8.0	86	336	181	5	73	120	2.7	186	8	ND	ND	28	0.10	---	1.5	ND	ND	0.6	26	843	4817	14	ND	ND
Jun	7.9	88	356	193	1	82	133	2.8	194	8	ND	ND	25	0.11	---	1.2	ND	ND	0.4	34	813	3452	13	ND	ND
Jul	8.1	84	380	219	9	83	130	3.2	228	9	ND	0.05	33	0.14	6.9	0.5	ND	ND	0.7	46	940	2806	5	ND	ND
Aug	8.2	81	371	204	4	81	110	3.2	208	10	ND	0.04	34	0.16	---	0.4	ND	ND	0.4	39	460	5745	102	ND	ND
Sep	8.3	89	418	200	ND	77	125	3.1	200	7	ND	ND	36	0.16	---	ND	ND	ND	1.5	50	424	685	12	ND	ND
Oct	8.1	92	388	236	3	67	132	3.5	239	9	ND	ND	32	0.15	ND	1.7	ND	ND	0.5	38	501	475	10	ND	ND
Nov	8.3	106	423	216	1	59	149	3.0	217	4	0.06	ND	36	0.13	---	1.4	ND	ND	0.9	45	240	311	6	ND	ND
Dec	8.0	84	353	215	5	50	120	2.7	220	11	ND	ND	28	0.11	---	2.4	ND	ND	0.6	29	400	2524	62	ND	ND

Metals																										
ALUMINIUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MOLYBDENUM	NICKEL	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	VANADIUM	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	ppb	
Jan	307	ND	ND	35	ND	ND	33	2.2	ND	1.4	139	ND	1.6	7	36	ND	1.9	ND	ND	14	209	ND	ND	ND	0.9	2.2
Feb	282	ND	ND	36	ND	ND	35	1.2	ND	1.4	175	0.5	2.0	8	39	ND	2.7	ND	ND	29	196	ND	ND	ND	ND	2.7
Mar	325	ND	ND	35	ND	ND	28	1.2	0.6	1.7	597	0.9	2.1	6	66	ND	2.7	ND	ND	14	151	ND	ND	ND	0.6	4.4
Apr	214	ND	ND	37	ND	ND	34	1.7	ND	1.4	199	ND	2.1	8	61	ND	2.0	ND	ND	14	126	ND	ND	ND	0.9	2.7
May	155	ND	ND	38	ND	ND	35	1.4	ND	1.6	122	ND	2.4	8	40	0.6	2.1	ND	ND	14	109	ND	ND	ND	0.6	2.2
Jun	152	ND	0.6	41	ND	ND	37	0.9	ND	1.8	118	ND	2.9	10	48	0.8	2.4	ND	ND	14	149	ND	ND	ND	0.6	2.0
Jul	168	ND	1.0	49	ND	ND	32	1.0	ND	1.9	86	ND	4.3	12	78	1.3	2.4	0.5	ND	20	150	ND	ND	ND	ND	1.9
Aug	221	ND	0.9	39	ND	ND	30	0.8	ND	2.0	144	ND	3.5	9	49	1.5	2.2	ND	ND	20	203	ND	ND	ND	0.9	1.8
Sep	248	ND	0.9	36	ND	ND	29	1.2	ND	1.9	113	ND	4.3	13	32	1.5	2.2	ND	ND	24	219	ND	ND	ND	0.6	1.6
Oct	261	ND	0.7	38	ND	ND	40	1.4	ND	1.8	159	ND	2.3	8	31	1.0	2.5	ND	ND	20	201	ND	ND	ND	0.9	2.2
Nov	246	ND	ND	39	ND	ND	45	1.4	ND	1.8	86	ND	2.4	9	24	1.0	2.5	ND	ND	22	221	ND	ND	ND	0.6	2.4
Dec	291	ND	ND	32	ND	ND	38	1.3	ND	1.7	251	ND	1.9	6	32	0.6	2.3	ND	ND	16	230	ND	ND	ND	ND	4.3

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected

"---" = No Analysis Required



**WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS
ANNUAL REPORT OF WATER ANALYSIS (2010)**

	Inorganic Ions										Metals																												
	TOTAL AMMONIA - N	BROMIDE	CHLORIDE	FLUORIDE	IODIDE	NITRATE - N	NITRITE - N	ORTHOPHOSPHATE - PO4	PERCHLORATE	SULFATE	ALUMINIUM	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		
EPA MCL*	4				10		1				6		10		2000		4		5		100				2		50				2		30						
Units	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppb	ppm	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	0.72	ND	38	0.79	3.3	2.3	ND	2.4	ND	43	46	ND	ND	32	ND	ND	43	1.8	ND	0.8	ND	ND	1.3	8	1.2	ND	ND	2.0	0.6	ND	15	139	ND	ND	ND	0.6	1.1		
Feb	0.08	ND	56	0.81	---	2.4	ND	2.4	ND	42	35	ND	ND	34	ND	ND	42	0.5	ND	0.8	ND	ND	1.5	8	0.8	ND	ND	2.1	ND	ND	28	141	ND	ND	ND	ND	1.3		
Mar	ND	0.06	31	0.87	---	1.8	ND	2.4	ND	40	28	ND	ND	32	ND	ND	37	0.9	ND	0.7	ND	ND	1.7	6	0.6	ND	ND	1.9	ND	ND	14	118	ND	ND	ND	ND	0.8		
Apr	ND	ND	30	0.83	7.7	1.6	ND	2.5	0.4	41	29	ND	ND	36	ND	ND	42	2.3	ND	0.7	ND	ND	1.8	8	0.5	ND	ND	1.9	0.6	ND	14	151	ND	ND	ND	0.8	1.0		
May	0.49	ND	31	0.90	---	1.5	ND	2.5	0.4	45	39	ND	ND	37	ND	ND	43	1.8	ND	0.9	ND	ND	2.3	8	1.0	ND	0.5	2.3	0.7	ND	14	163	ND	ND	ND	0.8	1.8		
Jun	0.73	ND	30	0.89	---	1.1	ND	2.4	0.4	54	214	ND	0.5	48	ND	ND	46	2.5	ND	1.4	181	ND	2.8	10	4.5	ND	0.8	2.8	0.8	ND	14	191	ND	ND	ND	1.2	2.7		
Jul	0.61	ND	37	0.96	13.0	0.3	ND	2.5	0.8	68	47	ND	0.7	41	ND	ND	41	2.4	ND	1.2	ND	ND	3.9	13	1.2	ND	1.3	2.5	1.1	ND	19	226	ND	ND	ND	1.4	1.0		
Aug	0.74	ND	39	0.99	---	0.4	ND	2.5	0.4	61	51	ND	0.6	36	ND	ND	38	1.4	ND	1.2	ND	ND	3.2	9	1.7	ND	1.4	2.3	0.9	ND	19	205	ND	ND	ND	1.2	0.9		
Sep	0.69	ND	41	0.98	---	ND	ND	2.5	1.0	70	44	ND	0.7	34	ND	ND	38	2.6	ND	1.3	12	ND	3.7	13	2.0	ND	1.5	2.3	1.0	ND	23	233	ND	ND	ND	1.3	0.8		
Oct	0.75	ND	37	0.94	ND	1.6	ND	2.5	0.7	58	35	ND	ND	36	ND	ND	49	2.3	ND	1.1	ND	ND	2.1	8	0.9	ND	1.0	2.6	0.8	ND	19	199	ND	ND	ND	1.2	1.1		
Nov	0.71	ND	41	0.87	---	1.3	ND	2.6	0.9	63	32	ND	ND	36	ND	ND	51	2.6	ND	1.1	ND	ND	2.2	9	0.7	ND	1.0	2.6	0.6	ND	21	221	ND	ND	ND	1.0	1.6		
Dec	0.67	ND	32	0.83	---	2.3	ND	2.5	0.5	48	37	ND	ND	29	ND	ND	45	1.7	ND	0.9	ND	ND	1.6	6	0.9	ND	0.6	2.0	ND	ND	15	162	ND	ND	ND	0.6	1.9		
McMillan Water Treatment Plant Finished Water																																							
Jan	0.76	ND	40	1.07	3.5	2.3	ND	2.5	ND	44	124	ND	ND	30	ND	ND	37	2.6	ND	4.2	ND	ND	1.4	8	1.9	ND	ND	2.7	0.6	ND	18	112	ND	ND	ND	ND	1.5		
Feb	ND	ND	50	1.07	---	2.2	ND	2.4	0.5	43	80	ND	ND	33	ND	ND	39	1.1	ND	2.0	ND	ND	1.6	8	1.1	ND	ND	2.2	ND	ND	26	139	ND	ND	ND	ND	1.4		
Mar	ND	ND	39	1.05	---	1.9	ND	2.4	ND	41	36	ND	ND	31	ND	ND	34	2.1	ND	1.8	ND	ND	1.4	7	0.6	ND	ND	2.5	ND	ND	19	119	ND	ND	ND	ND	0.9		
Apr	ND	ND	29	1.05	8.1	1.5	ND	2.4	0.4	43	38	ND	ND	34	ND	ND	37	2.1	ND	1.7	ND	ND	1.6	7	ND	ND	1.8	0.7	ND	13	138	ND	ND	ND	0.7	1.0			
May	0.44	ND	33	0.83	---	1.4	ND	2.5	0.5	49	46	ND	ND	37	ND	ND	41	2.1	ND	2.8	ND	ND	1.8	8	1.1	ND	0.6	2.1	0.8	ND	15	163	ND	ND	ND	0.7	0.7		
Jun	0.74	ND	31	0.91	---	1.1	ND	2.5	0.4	68	65	ND	ND	39	ND	ND	40	1.7	ND	5.0	ND	ND	2.3	9	2.0	ND	0.6	2.2	0.8	ND	17	173	ND	ND	ND	0.8	ND		
Jul	0.63	ND	38	0.87	9.8	0.4	ND	2.7	0.7	67	72	ND	0.7	41	ND	ND	37	2.4	ND	5.7	ND	ND	3.2	12	1.7	ND	1.1	2.2	1.2	ND	24	220	ND	ND	ND	1.0	0.6		
Aug	0.71	ND	41	0.90	---	0.3	ND	2.7	0.5	71	64	ND	0.6	36	ND	ND	31	1.1	ND	6.5	ND	ND	2.9	9	1.9	ND	1.2	1.7	1.0	ND	25	197	ND	ND	ND	0.8	ND		
Sep	0.66	ND	41	0.95	---	ND	ND	2.5	0.6	63	192	ND	0.7	34	ND	ND	32	2.1	ND	5.9	ND	ND	3.1	12	1.6	ND	1.3	1.8	1.2	ND	27	220	ND	ND	ND	1.0	ND		
Oct	0.68	ND	38	0.94	ND	1.3	ND	2.7	1.1	58	43	ND	ND	37	ND	ND	40	1.6	ND	9.9	ND	ND	2.7	8	0.7	ND	1.1	2.4	0.9	ND	25	205	ND	ND	ND	0.9	ND		
Nov	0.70	ND	41	0.92	---	1.2	ND	2.8	0.8	45	37	ND	ND	36	ND	ND	44	2.3	ND	6.1	ND	ND	2.2	9	ND	ND	1.0	2.3	0.6	ND	25	213	ND	ND	ND	0.9	1.4		
Dec	0.69	ND	32	0.94	---	2.2	ND	2.6	0.5	59	50	ND	ND	30	ND	ND	40	1.6	ND	2.7	ND	ND	1.6	6	0.7	ND	0.6	2.0	ND	ND	19	160	ND	ND	ND	0.6	1.8		

*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters.

ppb = Parts Per Billion

ppm = Parts Per Million

"---" = No Analysis Required



WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2010)

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)	ALGAE COUNT	HETEROTROPHIC PLATE COUNT	DIBROMOACETIC ACID	DICHLOROACETIC ACID	MONOBROMOACETIC ACID	MONOCHLOROACETIC ACID	TRICHLOROACETIC ACID	TOTAL HALOACETIC ACIDS	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	%+	%+	Org/mL	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	ppb	ppb										
																								5 100 75																																	
Dalecarlia Water Treatment Plant Finished Water																																																									
Jan	7.7	65	388	42	3.7	137	1.2	231	ND	0.06	0	0	0	<1	ND	4.5	ND	ND	3.8	8.3	5.8	3.3	0.8	ND	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND											
Feb	7.7	65	463	41	3.7	139	1.1	224	ND	0.06	0	0	0	<1	---	---	---	---	---	---	6.6	5.4	1.9	ND	13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND										
Mar	7.7	58	325	51	3.8	118	1.4	159	3	0.06	0	0	0	<1	---	---	---	---	---	---	10.8	5.4	1.2	ND	17.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Apr	7.7	73	366	64	3.8	137	1.3	197	ND	0.05	0	0	0	<1	ND	11.3	ND	ND	14.0	25.3	19.7	8.0	1.7	ND	29.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
May	7.7	80	385	71	3.7	141	1.7	215	6	0.05	0	0	0	<1	---	---	---	---	---	---	33.6	11.9	2.4	ND	47.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Jun	7.7	83	396	83	3.7	155	1.8	239	ND	0.06	0	0	0	<1	---	---	---	---	---	---	27.0	10.5	2.1	ND	39.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Jul	7.7	76	434	87	3.7	154	2.0	261	ND	0.06	0	0	4	3	ND	13.8	ND	ND	12.6	26.4	34.6	14.7	3.4	ND	52.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND									
Aug	7.7	73	424	84	3.7	131	2.1	234	ND	0.04	0	0	0	2	---	---	---	---	---	---	31.7	14.7	3.1	ND	49.5	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	7.7	82	468	79	3.7	149	1.9	219	ND	0.04	0	0	0	1	---	---	---	---	---	---	32.7	14.6	3.4	ND	50.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Oct	7.7	90	424	66	3.7	154	2.3	254	ND	0.04	0	0	0	2	ND	10.6	ND	1.8	10.1	22.5	20.7	10.8	2.4	ND	33.7	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	7.7	99	474	55	3.7	166	2.1	186	ND	0.03	0	0	0	<1	---	---	---	---	---	---	18.0	8.0	1.3	ND	27.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND							
Dec	7.7	77	341	42	3.7	138	1.8	228	ND	0.03	0	0	0	<1	---	---	---	---	---	---	13.5	6.3	1.0	ND	20.8	ND	ND	ND	ND	ND	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	55	372	50	3.8	125	1.3	236	ND	0.03	0	0	0	<1	ND	6.0	ND	ND	5.1	11.1	8.1	4.7	1.2	ND	14.2	ND	ND	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	7.7	55	428	48	3.8	129	1.3	126	ND	0.04	0	0	0	<1	---	---	---	---	---	---	5.1	5.0	2.1	ND	12.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Mar	7.7	49	344	51	3.7	114	1.3	129	ND	0.04	0	0	0	<1	---	---	---	---	---	---	9.2	7.2	2.6	ND	19.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Apr	7.8	60	332	59	3.7	122	1.4	192	ND	0.05	0	0	0	<1	ND	7.9	ND	ND	9.3	17.2	18.7	8.8	2.2	ND	30.2	ND	ND	ND	ND	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	7.7	74	379	66	3.6	136	1.5	235	6	0.04	0	0	0	2	---	---	---	---	---	---	33.2	12.3	2.8	ND	48.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Jun	7.7	69	389	76	3.7	135	2.2	204	ND	0.06	0	0	0	12	---	---	---	---	---	---	41.3	12.6	2.3	ND	56.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Jul	7.7	70	423	82	3.7	143	1.9	240	ND	0.06	0	0	6	30	ND	16.5	ND	ND	12.9	29.4	47.7	17.9	5.0	ND	70.5	ND	ND	ND	ND	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	7.7	61	411	81	3.7	114	1.9	233	ND	0.05	0	0	0	18	---	---	---	---	---	---	42.1	16.8	5.0	ND	63.9	ND	ND	ND	ND	ND	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	7.7	70	455	78	3.7	130	1.8	207	ND	0.05	0	0	0	30	---	---	---	---	---	---	36.8	17.5	4.9	ND	59.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Oct	7.7	72	426	69	3.8	133	2.3	187	ND	0.05	0	0	0	15	ND	11.8	ND	1.8	9.4	23.0	28.6	12.2	2.9	ND	43.4	ND	ND	ND	ND	ND	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	7.7	85	441	59	3.7	146	2.3	245	ND	0.04	0	0	0	3	---	---	---	---	---	---	26.2	10.3	1.7	ND	38.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Dec	7.7	68	395	47	3.7	126	1.9	216	ND	0.03	0	0	0	<1	---	---	---	---	---	---	19.8	8.3	1.3	ND	29.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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.
 Turbidity* = Water turbidity after filters
 Org/mL = Organisms per milliliter
 ppb = Parts Per Billion
 CFU/mL = Colony Forming Units per milliliter
 ppm = Parts Per Million
 NTU = Nephelometric Turbidity Units
 ND = N: ND = Not Detected
 "..." = No Analysis Required
 uS/cm = microSiemens per centimeter



**WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS
ANNUAL REPORT OF WATER ANALYSIS (2010)**

			Synthetic Organic Compounds (SOCs)																																																									
			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)	ATRAZINE	BAYGON	BENTAZON	BENZ(a)ANTHRACENE	BENZO(b)FLUORANTHENE	BENZO(g,h,i)PERYLENE	BENZO(a)PYRENE	BENZO(K)FLUORANTHENE	alpha-BHC	beta-BHC	delta-BHC	BROMACIL	BUTACHLOR	BUTYLBENZYLPHTHALATE	CAFFEINE	CARBARYL	CARBOFURAN	alpha-CHLORDANE	gamma-CHLORDANE	CHLORDANE	CHLORPYRIFOS (DURSBAN)	CHLOROBENZILATE	CHLORONEB	CHLOROTHALONIL	CHRYSENE	2,4-D	DALAPON														
EPA MCL*			2										0.5		0.5	0.5	0.5	0.5	0.5	0.5	3																								70	200														
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	ppb													
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*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters.

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected

"-" = No Analysis Required



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ANNUAL REPORT OF WATER ANALYSIS (2010)**

EPA MCL*	Synthetic Organic Compounds (SOCs)																				Miscellaneous													
	METOLACHLOR	METRIBUZIN	MOLINATE	trans-NONACHLOR	OXAMYL	PARAQUAT	PARATHION	PENDIMETHALIN	PERMETHRIN	PENTACHLOROPHENOL	PHENANTHRENE	PICLORAM	PROPACHLOR	PYRENE	SIMAZINE	TERBACIL	TERBUTHYLAZINE	THIOBENCARB	TRIFLURALIN	TOXAPHENE	2,4,5-T	2,4,5-TP (SILVEX)	CARBON DISULFIDE	DIBROMOCHLOROPROPANE (DBCP)	ETHYLENE DIBROMIDE (EDB)	TRICHLOROTRIFLUOROETHANE (Freon 111)	CYANIDE	2,3,7,8-TCDD (DIOXIN)	N-NITROSODIMETHYLAMINE (NDMA)					
	200					1					500					4					3					50					200	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	ppt	ppt	ppb	ppm	ppq	ppt					
Dalecarlia Water Treatment Plant Finished Water																																		
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McMillan Water Treatment Plant Finished Water																																		
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*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)

"---" = No Analysis Required