

## **Washington Aqueduct**

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

# Annual Report of Water Analysis 2008

Prepared by:

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







Potomac River Raw Water Supply

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			М	liscellan	eous Ph	ysical Pa	aramete	rs							Inorgar	nic lons						Mid	croorganisi	ns	
	Нd	ALKALINITY	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORG. 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	8.1	78	346	182	4	53	120	2.52	186	9	0.04	0.03	30	0.11	28.0	2.15	ND	0.31	ND	32	245	2144	73	ND	ND
Feb	7.9	64	313	236	86	54	100	3.24	322	18	0.06	0.03	33	0.07		2.43	0.02	0.21	ND	27	229	3356	56	ND	ND
Mar	7.9	66	295	209	66	58	100	2.33	275	65	0.04	ND	26	0.05		2.06	ND	0.08	ND	25	262	4023	296	ND	ND
Apr	7.8	71	265	146	7	64	105	4.58	153	32	0.05	0.03	22	0.09	6.5	1.46	0.02	0.12	ND	22	260	4081	715	ND	ND
May	7.6	67	229	104	64	66	90	3.53	168	31	0.04	0.03	15	0.10		1.53	ND	0.33	ND	23	595	25530	1570	ND	ND
Jun	7.9	90	334	212	11	78	125	2.61	223	11	0.04	0.03	21	0.11		1.67	0.02	0.10	0.6	31	390	12449	242	ND	ND
Jul	8.1	105	376	182	6	81	147	2.73	188	3	0.05	0.04	25	0.13	5.2	1.22	ND	0.27	0.6	40	437	3910	22	ND	ND
Aug	8.6	92	354	155	46	78	139	3.04	201	3	0.04	0.05	25	0.14		0.57	ND	0.11	ND	46	494	4311	47	ND	ND
Sep	8.4	95	367	155	3	76	136	3.28	158	4	0.04	0.04	29	0.19		1.00	ND	0.17	ND	44	440	4450	51	ND	ND
Oct	8.5	102	383	298	3	66	150	4.98	301	3	0.04	0.04	27	0.22	4.4	0.91	ND	0.43	ND	44	320	1087	36	ND	ND
Nov	8.3	119	487	256	1	57	171	3.53	257	1	0.04	0.04	34	0.23		1.25	0.02	0.21	0.8	52	216	280	27	ND	ND
Dec	7.8	78	341	224	ND	50	121	3.58	224	19	0.05	0.03	27	0.17		1.93	0.02	0.20	ND	37	224	7194	260	ND	ND
Avg	8.1	86	341	197	25	65	125	3.33	221	17	0.04	0.03	26	0.13	11.0	1.51	ND	0.21	ND	35	343	6068	283	ND	ND
Max	8.6	119	487	298	86	81	171	4.98	322	65	0.06	0.05	34	0.23	28.0	2.43	0.02	0.43	0.8	52	595	25530	1570	ND	ND
Min	7.6	64	229	104	ND	50	90	2.33	153	1	0.04	ND	15	0.05	4.4	0.57	ND	0.08	ND	22	216	280	22	ND	ND

															Metals												
	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	САБМІИМ	САLСІИМ	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MOLYBDENUM	NICKEL	POTASSIUM	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	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Jan	358	ND	ND	32.3	ND	ND	35	ND	ND	2.2	250	ND	1.8	8	31	ND	2.3	2.5	ND	ND	20.0	126	ND	ND	ND	0.8	5.1
Feb	273	ND	ND	37.0	ND	ND	29	ND	ND	1.6	126	ND	2.6	7	29	0.8	2.1		ND	ND		181	ND	ND	ND	ND	4.8
Mar	1060	ND	0.7	44.9	ND	ND	30	2.0	1.1	3.3	1176	1.7	2.6	6	78	ND	3.5		ND	ND		117	ND	ND	ND	2.8	10.7
Apr	225	ND	ND	36.3	ND	ND	28	ND	ND	1.7	243	ND	2.1	7	120	0.7	2.0	2.9	ND	ND	18.0	145	ND	ND	ND	8.0	4.1
May	308	ND	0.5	35.0	ND	ND	29	ND	ND	2.4	377	1.6	1.6	6	59	ND	2.0		ND	ND		103	ND	ND	ND	1.0	4.3
Jun	366	ND	0.6	38.2	ND	ND	38	0.7	ND	2.8	414	0.6	2.0	7	70	0.6	2.6		ND	ND		121	ND	ND	ND	1.4	4.7
Jul	195	ND	0.7	51.9	ND	ND	42	ND	ND	2.2	129	ND	3.4	10	61	1.0	2.5	3.2	ND	ND	14.0	217	ND	ND	ND	1.2	2.7
Aug	230	ND	1.0	50.0	ND	ND	33	ND	ND	2.3	137	ND	3.5	13	71	1.1	2.4		ND	ND		227	ND	ND	ND	1.4	2.8
Sep	206	ND	0.8	45.3	ND	ND	37	ND	ND	1.9	105	ND	4.2	11	38	1.2	2.3		ND	ND		243	ND	ND	ND	1.0	2.7
Oct	220	ND	1.0	38.9	ND	ND	41	0.5	ND	3.1	245	ND	2.1	12	39	0.9	2.3	4.1	ND	ND	19.0	178	ND	ND	ND	2.0	5.2
Nov	229	ND	0.5	44.4	ND	ND	49	2.9	ND	1.8	74	ND	3.2	12	19	0.9	2.3		ND	ND		249	ND	ND	ND	1.4	2.9
Dec	304	ND	ND	33.3	ND	ND	35	2.0	ND	2.0	86	ND	2.2	8	17	0.8	2.1		ND	ND		187	ND	ND	ND	1.0	2.3
Avg	331	ND	ND	40.6	ND	ND	35	0.7	ND	2.3	280	ND	2.6	9	53	0.7	2.4	3.2	ND	ND	17.8	175	ND	ND	ND	1.2	4.4
Max	1060	ND	1.0	51.9	ND	ND	49	2.9	1.1	3.3	1176	1.7	4.2	13	120	1.2	3.5	4.1	ND	ND	20.0	249	ND	ND	ND	2.8	10.7
Min	195	ND	ND	32.3	ND	ND	28	ND	ND	1.6	74	ND	1.6	6	17	ND	2.0	2.5	ND	ND	14.0	103	ND	ND	ND	ND	2.3

ppb = Parts Per Billion ppm = Parts Per Million

ND = Not Detected



					Inorga	nic lons																		Met	tale													
					liorga																			14161														
	TOTAL AMMONIA - N	BROMIDE	CHLORIDE	FLUORIDE	IODIDE	NITRATE - N	NITRITE - N	ORTHOPHOSPHATE - PO4	PERCHLORATE	SULFATE	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	САБМІИМ	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	VANADIUM	ZINC
EPA MCL*				4		10	1					6	10	2000	4	5		100								2				50				2		30		
	Dale	arlia	Wate	r Trea	tment	Plant	Finis	hed V	Nater																													
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Jan	0.82	ND	34	0.74	99.0		ND	2.46		45	42	ND	ND	38	ND	ND	41	1.0	ND	5.2	ND	ND	2.5	7	0.9	ND	0.9	1.9	2.4	ND	ND	22.0	182	ND	ND	ND	ND	2.0
Feb	0.75	ND	44	0.72		2.33	ND	2.45		42	22	ND	ND	35	ND	ND	37	2.1	ND	1.2	ND	ND	2.6	7	0.8	ND	0.8	2.1		0.7	ND		192	ND	ND	ND	0.7	2.5
Mar	0.77	ND	33	0.73		2.05	ND	2.49	ND	41	29	ND	ND	33	ND	ND	38	1.3	ND	1.3	ND	ND	2.5	6	1.0	ND	0.5	1.9		0.7	ND		132	ND	ND	ND	ND	2.2
Apr	0.19	ND	29	0.74		1.50	ND	2.40	ND	40	22	ND	ND	35	ND	ND	39	1.7	ND	0.9	ND	ND	1.7	7	1.0	ND	0.6	1.9	2.3	0.6	ND	12.0	152	ND	ND	ND	0.7	1.2
May	0.57	ND	21	0.83		1.51	ND	2.43	ND	39	34	ND	ND	32	ND	ND	37	1.8	ND	1.2	ND	ND	1.5	6	0.8	ND	ND	1.7		ND	ND		107	ND	ND	ND	0.8	0.8
Jun	0.88	ND	27	0.90		1.65		2.46		48	38	ND	ND	38	ND	ND	46	1.6	ND	1.1	ND	ND	2.4	7	1.2	ND	0.7	1.9		8.0	ND		147	ND	ND	ND	0.9	1.7
Jul	0.86	ND	30	1.00	5.6	1.19	ND	2.45		60	51	ND	ND	46	ND	ND	50	2.6	ND	1.6	ND	ND	3.1	10	2.0	ND	1.0	2.1	2.9	8.0	ND	14.0	213	ND	ND	ND	1.4	0.9
Aug	0.89	ND	32	1.01		0.66	ND	2.45		67	62	ND	0.7	45	ND	ND	45	2.6	ND	1.7	ND	ND	3.2	13	1.5	ND	1.1	2.5		1.3	ND		220	ND	ND	ND	1.5	1.0
Sep	0.83	ND	33	0.96		0.91	ND	2.55		63	48	ND	0.6	45	ND	ND	45	1.7	ND	1.3	ND	ND	3.8	11	1.9	ND	1.1	2.2		1.0	ND		252	ND	ND	ND	1.1	0.8
Oct	0.85	ND	33	0.89	5.3	1.01	ND	2.47	ND	62	33	ND	ND	37	ND	ND	49	1.5	ND	1.6	ND	ND	2.9	11	1.2	ND	1.1	2.1	3.9	0.7	ND	18.0	178	ND	ND	ND	1.2	1.2
Nov	0.86	ND ND	38 31	0.88		1.26	ND ND	2.55		70 52	25 20	ND ND	ND ND	42 33	ND ND	ND ND	55 44	2.3 1.6	ND ND	1.2	ND ND	ND ND	3.0 2.8	12 9	0.8	ND ND	0.8	2.4		1.0 0.8	ND ND		243	ND ND	ND ND	ND ND	1.0 0.7	1.6
Dec				<del>†                                      </del>	<del>                                     </del>	<del>                                     </del>	<del>i                                     </del>	<del>†                                      </del>	<del>†                                      </del>	52	35		ND	İ				i e						<del>                                     </del>	<del>                                     </del>			2.1	2.9									
Avg Max	0.76	ND ND	32 44	1.01	29.7 99.0	1.52 2.33	ND ND	2.47	0.8	70	62	ND ND	0.7	38 46	ND ND	ND ND	44 55	1.8 2.6	ND ND	1.6 5.2	ND ND	ND ND	3.8	9 13	2.0	ND ND	0.8 1.1	2.1	3.9	0.7 1.3	ND ND	16.5 22.0	186 252	ND ND	ND ND	ND ND	0.8 1.5	2.5
Min	0.19	ND	21	0.72	5.3	0.66	ND	2.40	ND	39	20	ND	ND	32	ND	ND	37	1.0	ND	0.9	ND	ND	1.5	6	0.7	ND	ND	1.7	2.3	ND	ND	12.0	107	ND	ND	ND	ND	0.8
	0.13	ND		0.72	3.3	0.00	ND	2.40	ND	33	20	ND	ND	32	ND	ND	31	1.0	ND	0.5	ND	IND	1.5		0.7	IND	ND	1.7	2.5	ND	ND	12.0	107	ND	ND	ND	ND	0.0
	NA - NA	v	· · · · · · · · · · · · · · · · · · ·	T4.		DI4	<b>-</b> :: - 1	! \A/	I-4																													
1.				Treati																		T				T												
Jan	0.80	ND	34	0.80		2.24	ND	2.22		48	19	ND	ND	38	ND	ND	39	1.2	ND	5.8	ND	ND	2.3	8	0.6	ND	0.8	2.0	2.3	ND	ND	14.0	178	ND	ND	ND	ND	1.6
Feb	0.83	ND	43	0.80		2.16	ND	2.34	ND	45	26	ND	ND	33	ND	ND	35	1.9	ND	3.4	ND	ND	2.2	7	0.6	ND	8.0	2.0		0.7	ND		169	ND	ND	ND	0.6	2.3
Mar	0.79	ND	37	0.80		2.13	ND	2.34	1	42	27	ND	ND	31	ND	ND	34	1.2	ND	2.9	ND	ND	1.9	7	0.5	ND	ND	1.7		0.6	ND		132	ND	ND	ND	ND	1.2
Apr	0.20	ND	30	0.80	16.0	1.49	ND	2.28		41	29	ND	ND	30	ND	ND	35	1.2	ND	2.3	ND	ND	1.4	7	ND	ND	ND	1.5	2.5	0.6	ND	14.0	128	ND	ND	ND	ND	0.8
May	0.51	ND	22	0.85		1.30	ND	2.30		42	38	ND	ND	32	ND	ND	32	0.8	ND	3.1	ND	ND	2.0	6	0.7	ND	ND	1.6		ND	ND		112	ND	ND	ND	ND	1.5
Jun	0.79	ND	27	0.96		1.50	ND	2.39		49	41	ND	ND	36	ND	ND	40	1.6	ND	4.6	ND	ND	2.1	8	1.2	ND	ND	1.7		0.6	ND		134	ND	ND	ND	0.8	0.6
Jul	0.72	ND	31	1.04	5.3	1.12	ND	2.36		64	47 55	ND ND	ND	43	ND	ND	47	2.1	ND	6.0	ND	ND	2.3	10	1.3	ND ND	0.9	1.7 2.0	2.8	0.9	ND	14.0	197	ND	ND	ND	1.1	ND ND
Aug	0.76	ND	33	0.99		0.72	ND	2.48		69			0.6	41	ND	ND	45	1.6	ND	6.2	ND	ND	2.6	11	1.3		1.1			1.4	ND		214	ND	ND	ND	0.9	
Sep	0.71	ND ND	34	0.99	5.6	0.78	ND	2.52		65 65	35 321	ND ND	0.6 ND	36 37	ND ND	ND ND	41	1.1	ND ND	7.2 8.0	ND 17	ND ND	2.3	11	3.7	ND ND	1.0	1.8 2.4	3.9	0.9	ND ND		211	ND ND	ND ND	ND ND	0.8	ND 2.1
Oct	0.77	ND	33	0.97	5.6	1.12	ND ND	2.43		68	28	ND	ND	40	ND	ND	43 51	1.3	ND	5.2	ND	ND	2.4	10	0.5	ND	0.9	2.4	3.9	0.9	ND	18.0	219	ND	ND	ND	0.8	1.4
Nov Dec	0.87	ND	28	0.95		2.02	ND	2.70	ND	49	96	ND	ND	29	ND	ND	38	2.0	ND	5.2	ND	ND	2.4	7	2.1	ND	ND	2.2		0.8	ND		137	ND	ND	ND	0.8	0.8
	0.72	ND	33	0.94	24.0	<del></del>	ND	2.34	†	54	63	ND	ND	36	ND	ND	40	1.5	ND	5.0	ND	ND	2.2	9	1.2	ND	0.6	1.9	2.9	0.7	ND	15.0	171	ND	ND	ND	0.6	1.0
Avg Max	0.72	ND	43	1.04	69.0	2.24	ND	2.70	ND	69	321	ND	0.6	43	ND	ND	51	2.1	ND	8.0	17	ND	3.1	13	3.7	ND	1.2	2.4	3.9	1.4	ND	18.0	226	ND	ND	ND	1.1	2.3
Min	0.95	ND		0.80						41	19	ND	ND	29	ND	ND	32	0.8	ND	2.3	ND	ND	1.4	6	ND	ND	ND	1.5	2.3	ND		14.0		ND	ND	ND	ND	ND
	L = Enviro									!		יייי	יייי		יייי	140	32		arts Per E	!	140	110		Parts Per		ווט	140	1.5	ND = Not			17.0	114			sis Requir		ייוי

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

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected



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		Misc	ellane	ous P	hysica	l Paran	neters	1			Micro	organisi 	ms		Haloa	cetic /	Acids (	HAAs)	)	Tr	ihalom	ethane	es (TH	Ms)						Volatil	le Org	anic C	ompo	unds (	VOCs					_
Hd	ALKALINITY	CONDUCTIVITY	TEMPERATURE	TOTAL CHLORINE	TOTAL HARDNESS	TOTAL ORG. 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
																									5							5	100							7!
																									3							3	100							,
Dale			er Tre			ant Fi	1			1		ı		ı		1			ı		1	ı		T																
	ppm	uS/cm	F	ppm	ppm	ppm	ppm	ppm	NTU	%+	%+	Org/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	p
7.7	73	368	47	3.7	133	1.58	194	ND	0.06	0	0	0	<1	ND 	8.0	ND 	ND 	8.7	16.7	8.1	4.7	1.0	ND	13.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
7.7	61 61	372 339	46 52	3.7	122 120	1.65		3	0.04	0	0	0	<1 <1							10.0	6.5	1.2	ND ND	15.1 20.7	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 ND	ND ND	ND ND	1
7.7	70	320	61	3.6	127	2.01		ND		0	0	0	<1	ND	8.6	ND	1.2	7.3	17.1	21.0	7.9	1.4	ND	30.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N
7.7	65	299	64	3.7	117	1.73	-	ND		0	0	0	1							31.0	5.8	0.5	ND	37.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7.7	85	376	78	3.7	145	1.88		2	0.07	0	0	4	<1							37.0	10.0		ND	48.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ı
7.7	96	418	83	3.7	168	1.88	234	ND	0.07	0	0	7	<1	ND	13.0	ND	2.2	11.5	26.7	34.0	12.0	2.8	ND	48.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
7.7	84	412	80	3.7	164	1.98	229	ND	0.07	0	0	7	1							37.0	17.0	3.8	ND	57.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7.7	84	414	76	3.7	156	2.17	208	ND	0.07	0	0	0	4							29.0	19.0	6.6	ND	54.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7.8	93	441	65	3.8	167	2.11		ND		0	0	0	<1		17.3	ND	2.7		38.2	26.0	9.4	1.4	ND	36.8		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	_
7.7	109	517	53	3.7	189	2.31	+	ND		0	0	0	<1							18.0	1	1	ND	34.1	<del>                                     </del>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7.7	79	407	46	3.7	<del>i                                      </del>	2.13	<del></del>	1	0.06	0	0	0	1							10.0	7.6	2.0	ND	<del>i                                      </del>	<del>i                                      </del>	<del>i i</del>	ND	<del>                                     </del>	ND		ND	ND	ND	ND	ND	ND	ND	ND	<del>i i</del>	<u>_</u>
7.7	80 109	390 517	63 83	3.7	146 189	1.91 2.31	_	ND 5	0.06	0	0	7	<1 4	ND ND	11.7 17.3	ND ND	1.5 2.7	11.4 18.2			9.8	6.6	ND ND	34.8 57.8	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	ND ND		L
7.7	61	299	46	3.6	117	1.54	_	ND		0	0	0	<1	ND	8.0	ND	ND	7.3	16.7	8.1	4.4	0.5	ND	13.8	<del>                                     </del>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<del>                                     </del>	1
	0.		-10	0.0		1.04	100		0.04					1112	0.0	110	110	1.0	10.7	0.1	1.1	0.0	110	10.0	110	110		.,,		.,,	112	11.5	.,,				110	.,,	1112	Ė
McM	illan \	Watei	r Trea	ıtmer	nt Pla	nt Fin	nisher	l Wat	ter																															
7.7	65	360	56	3.8	128	1.70	1	1	0.03	0	0	0	53	ND	9.8	ND	1.6	10.3	21.7	12.0	5.1	0.9	ND	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1
7.7	55	367	51	3.8	115	1.64		3	0.03	0	0	0	66							12.0	6.8	1.5	ND	20.3	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		Г
7.7	51	338	52	3.8	112	1.62	205	9	0.04	0	0	0	93							13.0	6.9	1.4	ND	21.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7.7	61	316	58	3.7	117	1.92	184	1	0.06	0	0	0	38	ND	9.5	ND	1.3	8.5	19.3	24.0	8.7	1.8	ND	34.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	L
7.7	49	278	63	3.7	103	1.91		ND		0	0	0	27							37.0	9.2	1.2	ND	47.4	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	L
7.7	67	349	71	3.7	130	1.69	_	7	0.06	0	0	20	122							58.0	14.0		ND	73.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	L
7.7	82	410	77	3.7	157	1.68		3	0.06	0	0	9	56	ND	15.1	ND	2.1	11.0		38.0	14.0		ND	55.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	L
7.7	77 73	409	78 76	3.7	158 150	1.77		ND ND		0	0	8	56							47.0 37.0	18.0 18.0		ND ND	69.7	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	ND ND	ND ND	_
7.7	79	424	71	3.8	153	2.07		ND		0	0	0	50	ND	13.2	ND	1.9	9.4	24.5	27.0	14.0		ND	44.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	H
7.7	98	492	63	3.8	180	2.16		ND		0	0	0	35							26.0	13.0		ND	41.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7.7	57	347	54	3.8	118	2.16				0	0	0	6							14.0	9.0	2.1	ND	25.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ŀ
7.7	68	374	64	3.8	135	1.85	†	2	0.05	0	0	3	54	ND	11.9	ND	1.7	9.8	23.4	28.8	11.4	2.5	ND	42.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<del>i i</del>	Ī
7.7	98	492	78	3.8	180	2.16	288	9	0.06	0	0	20	122	ND	15.1	ND	2.1	11.0	28.2	58.0	18.0	5.2	ND	73.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
7.7	49	278	E4	27	102	1 62	150	ND	0.03	0	0	0	6	ND	9.5	ND	1.3	8.5	19 3	12.0	5.1	0.9	ND	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	П

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

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected "----" = N



1,22-7 1,1,1,22-7 1,2,4-18 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19 1,2,4-19	Synthetic Organic Compounds   Synthetic Organic Compounds
EPA MCL* 600 5 100 70 7 5 700 5 100 5 1000 70 200 5 5 10,0	10,000 2 2 3 2 ppb ppb ppb ppb ppb ppb ppb ppb
MCL* 600 5 100 70 7 5 700 5 100 5 1000 70 200 5 5 10,0	ppb ppb ppb ppb ppb ppb ppb
Dalecarlia Water Treatment Plant Finished Water	<del>-                                     </del>
Dalecallia Water Treatment Fiant Finished Water	<del>-                                     </del>
ppb	<del>-                                     </del>
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McMillan Water Treatment Plant Finished Water	
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		1								1	I									Syı	nthetic	Orga	nic Co	mpoun	ids 			1					ı	1	1				$\overline{}$		$\overline{}$	$\overline{}$		
	ALDICARB SULFOXIDE	ALDRIN	ANTHRACENE	AROCHLOR 1016	AROCHLOR 1221	AROCHLOR 1232	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	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	BUTYLBENZYLPHTHALATE	CAFFEINE	CARBARYL	CARBOFURAN	alpha-CHLORDANE	gamma-CHLORDANE	CHLORDANE	CHLORPYRIFOS (DURSBAN)	CHLOROBENZILATE	CHLORONEB	CHLOROTHALONIL	CHRYSENE	2,4-D	DALAPON	2,4-DB	DCPA MONO & DIACID DEGRADATE	4,4'-DDD	4,4*-DDE	4,4'-DDT	DIBENZ(a,h)ANTHRACENE	DICAMBA
EPA																																							ш		ш	ш		
MCL*	4			0.5	0.5	0.5	0.5	0.5	0.5	0.5	3						0.2										40			2						70	200							
	Dale	carlia	Wate	r Tre	atmei	nt Pla	nt Fir	nishe	d Wa	ter																																		
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
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
Feb																																												
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Max	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Min	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
		v		<b>-</b>		. DI	4 = 1		147-4-																																			
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ppm = Parts Per Million

ND = Not Detected



																				Sy	nthetic	Orga	nic Co	mpour	nds	ı																		
EPA	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	МЕТНОМУL	METHOXYCHLOR	METOLACHLOR	METRIBUZIN	MOLINATE	trans-NONACHLOR	OXAMYL	PARAQUAT	PARATHION
MCL*						400	6							7	20	100	2		ı			700	0.4	0.2	1	50				0.2							40					200		
	Dale	carlia	a Wat	er Tre	atme	ent Pl	ant F	inish	ed W	/ater																																		
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
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
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	ND	ND
May																ND																												
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Max	ND	ND	ND	ND	ND	ND	0.9	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	ND	ND	ND	ND	ND	ND	ND	ND
Min	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	McM	illan	Wate	r Trea	atmei	nt Pla	nt Fi	nishe	ed Wa	ater																																		
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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	ND	ND
May																ND																												
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 ${}^*\mathsf{EPA}\;\mathsf{MCL}\;\mathsf{=}\;\mathsf{Environmental}\;\mathsf{Protection}\;\mathsf{Agency's}\;\;\mathsf{Maximum}\;\mathsf{Contaminant}\;\mathsf{Level}\;\mathsf{for}\;\mathsf{regulated}\;\mathsf{parameters}.$ 

ppb = Parts Per Billion

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						Syn	thetic O	rganic	Сотро	ınds							Mis	scellane	ous			R	adionuc	lides	
EPA	PENDIMETHALIN	PERMITHRIN	PENTACHLOROPHENOL	PHENANTHRENE	PICLORAM	PROPACHLOR	PYRENE	SIMAZINE	TERBACIL	TERBUTHYLAZINE	THIOBENCARB	TRIFLURALIN	TOXAPHENE	2,4,5-T	2,4,5-TP (SILVEX)	DIBROMOCHLOROPROPANE (DBCP)	ETHELYNE DIBROMIDE (EDB)	CYANIDE	DIOXIN	N-nitrosodymethylamine (NDMA)	GROSS ALPHA	GROSS BETA	RADIUM 226/228	STRONTIUM 90	TRITIUM
MCL*		l	1		500	l		4		l		l	3	l	50	0.2	50	0.2	30	l	15	50	5		
						nt Finis																			1
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppt	ppm	pg/L	ppt	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L
Jan	ND	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND	ND 	ND	ND	ND	ND 	ND	ND	ND	ND 	2.9	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	1.6	ND	ND
May																		ND					1.0		
Jun																									
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
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Nov																									
Dec		 	 				 			 	 	 		 						<b></b>					
Avg Max	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 2.9	ND ND	ND ND	0.4 1.6	ND ND	ND
Min	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
	ND	IND	ND	IND	ND	ND	ND	IND	IND	IND	IND	ND	ND	IND	IND	IND	ND	ND	IND	ND	ND	ND	IND	IND	ND
	McMil	lan Wa	ter Tre	eatmer	t Plan	t Finisl	ned Wa	ater																	
Jan	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	0.4	ND	ND
Feb																									
Mar																					ND.	ND.		ND.	700
Apr May	ND	ND 	ND 	ND	ND 	ND	ND 	ND	ND 	ND	ND 	ND	ND 	ND 	ND 	ND 	ND	ND	ND 	2.1	ND	ND	ND	ND	768
Jun																									
Jul	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	ND
Aug																									
Sep																									
Oct	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	ND	4.2	ND	ND	ND
Nov																									
Dec																									
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	192
Max	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	4.2	0.4	ND	768
Min	ND	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.

ppm = Parts Per Million

ppb = Parts Per Billion

ppt = Parts Per Trillion

ND = Not Detected