

Washington Aqueduct

U.S. ARMY Corps of Engineers

Annual Report of Water Analysis 2006

Prepared by:

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Plant Operations Branch
Washington Aqueduct
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Washington, D.C. 20016-2514







WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2006)

Potomac River Raw Water Supply

											1															
			Mis	cellane	ous Ph	ysical F	aramet	ers							Inorgai	nic lons	<u> </u>						Microo	rganisms	1	
	ALKALINITY CONDUCTIVITY DISSOLVED SOLIDS SUSPENDED SOLIDS TEMPERATURE TOTAL HARDNESS TOTAL ORG. CARBON TOTAL SOLIDS								TURBIDITY	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	IODIDE	NITRATE	NITRITE	ORTHOPHOSPHATE as PO4	PERCHLORATE	SULFATE	ALGAE COUNT	TOTAL COLIFORM	E. COLI	GIARDIA	CRYPTOSPORIDIUM	VIRUS	
		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	MPN/100L
Jan	7.8	62	272	140	9	48	94	2.43	149	13	0.05	ND	20	0.11	3.4	2.40	ND	0.13	ND	26	299	28	6	ND	ND	14.2
Feb	7.9	69	292	202	3	48	98	2.07	205	10	ND	ND	31	0.10		2.20	ND	0.12	ND	24	248	71	5	0.3	ND	
Mar	8.3	92	340	159	14	59	126	2.08	173	6	0.05	ND	28	0.11		2.11	ND	0.13	ND	32	154	9	3	ND	ND	
Apr	7.7	83	317	184	3	68	123	2.83	187	6	ND	ND	27	0.11	3.1	1.50	0.03	0.18	ND	32	210	133	9	ND	ND	
May	7.6	73	269	170	3	69	98	2.39	173	4	ND	ND	18	0.10		1.35	ND	0.12	ND	29	325	298	7	ND	ND	
Jun	7.4	81	281	164	2	78	111	3.74	166	15	ND	ND	20	0.12		0.77	ND	0.11	ND	35	296	1905	382	ND	ND	0.9
Jul	8.0	100	317	196	4	82	127	2.86	200	5	ND	ND	18	0.12	4.6	1.58	ND	0.15	1.2	30	336	426	12	ND	ND	
Aug	7.8	109	365	218	7	84	140	2.66	225	3	ND	ND	25	0.14		0.89	ND	0.13	ND	38	349	503	9	ND	ND	
Sep	8.1	105	354	222	2	73	138	3.15	224	3	ND	ND	24	0.13		1.46	ND	0.15	ND	36	333	381	13	ND	ND	5.8
Oct	8.1	105	368	166	5	64	143	2.71	171	3	ND	ND	24	0.13	3.3	1.35	ND	0.16	ND	36	200	2018	89	ND	ND	
Nov	7.7	71	273	185	13	54	104	4.17	198	13	ND	ND	17	0.08		1.82	ND	0.15	ND	25	192	179	10	ND	ND	65.1
Dec	7.9	99	317	185	3	59	125	1.99	188	4	ND	ND	22	0.09		2.26	ND	0.18	1.0	27	96	548	17	ND	ND	
Avg	7.8	87	314	183	6	66	119	2.76	188	7	ND	ND	23	0.11	3.6	1.64	ND	0.14	ND	31	253	542	47	ND	ND	21.5
Max	8.3	109	368	222	14	84	143	4.17	225	15	0.05	ND	31	0.14	4.6	2.40	0.03	0.18	1.2	38	349	2018	382	0.3	ND	65.1
Min	7.4	62	269	140	2	48	94	1.99	149	3	ND	ND	17	0.08	3.1	0.77	ND	0.11	ND	24	96	9	3	ND	ND	0.9

															Met	als												
	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	САБМІИМ	CALCIUM	СНКОМІИМ	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MERCURY	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	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Jan	538	ND	0.5	34.4	ND	ND	27	0.9	0.6	4.8	609	1.2	1.9	6	53	ND	ND	1.8	2.2	ND	ND	8.8	114	ND	ND	ND	1.3	5.0
Feb	220	ND	ND	32.4	ND	ND	29	ND	ND	3.8	160	ND	1.7	6	56	ND	ND	1.4		ND	ND		127	ND	ND	ND	0.5	3.2
Mar	155	ND	ND	30.1	ND	ND	37	1.1	ND	2.3	102	ND	1.7	8	34	ND	8.0	1.1		ND	ND		142	ND	ND	ND	0.7	3.8
Apr	205	ND	0.6	40.1	ND	ND	36	ND	ND	3.7	185	ND	2.9	8	61	ND	1.4	1.5	2.3	0.6	ND	8.1	192	ND	ND	ND	0.7	3.8
May	93	ND	0.6	36.5	ND	ND	30	ND	ND	3.5	106	ND	2.5	6	28	ND	0.7	0.9		ND	ND		147	ND	ND	ND	8.0	2.1
Jun	143	ND	0.7	38.0	ND	ND	33	0.6	ND	3.2	58	ND	3.1	7	19	ND	1.2	0.9		ND	ND		173	ND	ND	ND	1.2	1.3
Jul	153	ND	8.0	39.9	ND	ND	39	ND	ND	3.8	121	ND	2.0	7	68	ND	0.9	1.1	3.0	0.5	ND	13.0	167	ND	ND	ND	1.5	1.5
Aug	510	ND	1.1	49.1	ND	ND	38	0.6	0.7	6.3	412	8.0	3.8	11	354	ND	1.4	1.9		0.7	ND		218	ND	ND	ND	2.2	3.7
Sep	257	ND	1.0	44.3	ND	ND	39	ND	ND	4.8	77	ND	4.4	9	43	ND	2.2	2.0		0.6	ND		237	ND	ND	ND	1.6	1.8
Oct	193	ND	0.8	40.8	ND	ND	41	ND	ND	3.7	61	1.5	2.6	10	25	ND	1.6	0.9	3.8	0.6	ND	15.0	222	ND	ND	ND	1.2	1.8
Nov	267	ND	0.6	39.8	ND	ND	30	ND	ND	4.2	173	ND	2.4	7	69	ND	8.0	1.3		ND	ND		176	ND	ND	ND	1.0	2.9
Dec	202	ND	ND	35.4	ND	ND	37	ND	ND	3.1	165	0.5	1.3	8	38	ND	0.6	1.0		ND	ND		140	ND	ND	ND	0.6	2.8
Avg	245	ND	0.6	38.4	ND	ND	35	ND	ND	3.9	186	ND	2.5	8	71	ND	1.0	1.3	2.8	ND	ND	11.2	171	ND	ND	ND	1.1	2.8
Max	538	ND	1.1	49.1	ND	ND	41	1.1	0.7	6.3	609	1.5	4.4	11	354	ND	2.2	2.0	3.8	0.7	ND	15.0	237	ND	ND	ND	2.2	5.0
Min	93	ND	ND	30.1	ND	ND	27	ND	ND	2.3	58	ND	1.3	6	19	ND	ND	0.9	2.2	ND	ND	8.1	114	ND	ND	ND	0.5	1.3

ppb = Parts Per Billion ppm = Parts Per Million

ND = Not Detected "----" = No Analysis Required

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WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2006)

					Inorgar	nic Ions	s																	Met	als													
	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	IODIDE	NITRATE	NITRITE	OR THOPHOSPHATE as 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	l	l		ļ			l	2			l l	50	ļ	ļ	ļ	2	ļ			
	Daloc	arlia	Wator	Tros	mont	Dlant	t Finis	had V	Vator																													
	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	0.93	ND	27	0.83	4.9	2.42	ND	3.11	ND	41	29	ND	ND	30	ND	ND	34	ND	ND	2.8	ND	ND	1.7	7	0.8	ND	0.5	1.2	2.3	ND	ND	11.0	118	ND	ND	ND	ND	1.5
Feb	0.93	ND	34	0.87		2.30	ND	2.23	ND	39	35	ND	ND	31	ND	ND	35	ND	ND	2.7	12.4	ND	1.4	7	30.7	ND	0.7	1.1		0.5	ND		130	ND	ND	ND	ND	2.0
Mar	0.84	ND	32	0.81		2.12	ND	2.47	ND	44	22	ND	ND	29	ND	ND	42	0.8	ND	1.9	ND	ND	1.4	8	0.5	ND	0.8	0.9		ND	ND		143	ND	ND	ND	ND	1.3
Apr	0.83	ND	30	0.85	3.4	1.37	ND	2.46	ND	50	32	ND	ND	38	ND	ND	44	1.2	ND	2.6	25.7	ND	2.8	8	2.6	ND	1.3	1.0	2.2	0.7	ND	8.5	197	ND	ND	ND	0.6	1.5
May	0.90	ND	24	0.87		1.28	ND	2.39	ND	45	24	ND	ND	35	ND	ND	40	0.7	ND	2.1	ND	ND	2.1	6	1.4	ND	0.7	1.7		ND	ND		151	ND	ND	ND	0.6	1.1
Jun	0.90	ND	24	0.99		0.76	ND	2.40	ND	50	49	ND	ND	38	ND	ND	44	0.5	ND	2.0	ND	ND	2.9	7	1.3	ND	1.0	1.1		ND	ND		176	ND	ND	ND	0.8	0.9
Jul	0.86	ND	25	1.00	6.6	1.51	ND	2.41	ND	48	41	ND	ND	39	ND	ND	47	1.1	ND	2.0	ND	ND	1.3	8	1.0	ND	0.9	0.7	3.1	0.6	ND	14.0	166	ND	ND	ND	1.3	2.2
Aug	0.84	ND	30	0.73		0.86	ND	2.42	ND	56	78	ND	0.6	39	ND	ND	46	0.9	ND	2.7	ND	ND	3.5	11	1.1	ND	1.4	8.0		0.6	ND		218	ND	ND	ND	1.3	0.7
Sep	0.88	ND	30	0.98		1.36	ND	2.39	0.7	54	58	ND	0.7	42	ND	ND	47	ND	ND	4.1	ND	ND	4.1	10	2.3	ND	2.4	1.2		0.7	ND		245	ND	ND	ND	1.4	1.6
Oct	0.90	ND	29	0.92	4.0	1.24	ND	2.40	ND	56	50	ND	0.6	39	ND	ND	47	ND	ND	3.1	ND	1.0	2.3	10	1.0	ND	1.6	1.0	3.6	0.6	ND	17.0	230	ND	ND	ND	1.1	1.3
Nov	0.88	ND	22	0.55		1.72	ND	2.34	ND	43	44	ND	ND	35	ND	ND	39	1.3	ND	2.4	ND	ND	2.3	7	0.8	ND	8.0	1.0		0.5	ND		169	ND	ND	ND	0.9	1.1
Dec	0.87	ND	26	0.82		2.25	ND	2.47	1.6	45	41	ND	ND	34	ND	ND	44	0.7	ND	2.3	ND	ND	1.3	8	1.5	ND	0.6	0.9		ND	ND		141	ND	ND	ND	ND	1.2
Avg	0.88	ND	28	0.85	4.7	1.60	ND	2.46	ND	48	42	ND	ND	36	ND	ND	42	0.6	ND	2.6	ND	ND	2.3	8	3.7	ND	1.0	1.0	2.8	ND	ND	12.6	174	ND	ND	ND	0.6	1.4
Max	0.93	ND	34	1.00	6.6	2.42	ND	3.11	1.6	56	78	ND	0.7	42	ND	ND	47	1.3	ND	4.1	25.7	1.0	4.1	11	30.7	ND	2.4	1.7	3.6	0.7	ND	17.0	245	ND	ND	ND	1.4	2.2
Min	0.83	ND	22	0.55	3.4	0.76	ND	2.23	ND	39	22	ND	ND	29	ND	ND	34	ND	ND	1.9	ND	ND	1.3	6	0.5	ND	0.5	0.7	2.2	ND	ND	8.5	118	ND	ND	ND	ND	0.7
	McMi	llan V	Vater ⁻	Treatr	nent F	Plant	Finish	ed W	ater	ı							ı	ı						ı					ı ı					П				
Jan	0.95	ND	30	0.79	4.9	2.47	ND	3.17	ND	44	37	ND	ND	33	ND	ND	32	ND	ND	5.9	ND	ND	1.6	7	0.7	ND	0.7	1.1	2.4	ND	ND	12.0	144	ND	ND	ND		1.5
Feb	0.91	ND	31	0.89		2.27	ND	2.39	ND	40	30	ND	ND	29	ND	ND	32	ND	ND	4.1	ND	ND	1.4	6	ND	ND	ND	1.0		ND	ND		116	ND	ND	ND	ND	1.2
Mar	0.93	ND	32	0.91		2.15	ND	2.49	ND	43	18	ND	ND	30	ND	ND	37	8.0	ND	4.5	ND	ND	1.3	8	0.7	ND	0.6	1.0		ND	ND		137	ND	ND	ND	ND	1.5
Apr	0.93	ND	33	0.83	5.0	1.43	ND	2.59	ND	53	43	ND	ND	37	ND	ND	42	ND	ND	4.8	18.8	ND	2.3	9	0.6	ND	1.2	0.9	2.5	0.6	ND	15.0	195	ND	ND	ND	ND	1.5
May	0.99	ND	23	0.85		1.17	ND	2.44	ND	46	42	ND	ND	34	ND	ND	35	0.5	ND	7.5	ND	ND	3.0	6	0.8	ND	0.6	0.9		ND	ND		135	ND	ND	ND	ND	1.2
Jun	0.97	ND	25	0.83		0.77	ND	2.40	ND	53	52	ND	ND	37	ND	ND	38	0.6	ND	8.0	ND	ND	3.1	7	1.4	ND	8.0	1.0		ND	ND		160	ND	ND	ND	0.6	1.1
Jul	0.95	ND	25	0.94	6.3	1.26	ND	2.37	ND	49	65	ND	ND	34	ND	ND	41	0.9	ND	12.5	31.7	8.0	2.7	7	2.5	ND	0.6	2.0	3.3	0.6	ND	15.0	121	ND	ND	ND	0.7	5.1
Aug	0.95	ND	30	0.74		0.89	ND	2.36	ND	58	82	ND	ND	40	ND	ND	43	8.0	ND	10.3	ND	ND	2.3	11	3.8	ND	1.5	0.9		0.6	ND		209	ND	ND	ND	1.0	1.6
Sep	0.90	ND	31	0.90	4.0	1.10	ND	2.35	ND	59	64	ND	0.5	41	ND	ND	42	ND	ND	10.4	ND	ND	3.0	10	1.4	ND	2.0	1.4	2.5	0.6	ND	40.0	230	ND	ND	ND	1.1	0.8
Oct	0.94	ND	29	0.91	4.3	1.23	ND	2.41	ND	57	49	ND	0.6	37	ND	ND	44	ND 4.4	ND	12.3	ND	0.9 ND	1.9	10	1.0	ND	1.5	0.9	3.5	0.6	ND	18.0	211	ND	ND	ND	1.0	1.1
Nov	0.98	ND	23 26	0.42		1.51 2.18	ND ND	2.34	ND ND	45 49	38 66	ND ND	ND ND	37 32	ND ND	ND ND	36 40	0.6	ND ND	6.8 5.0	ND ND	ND ND	2.5 1.6	7	0.6	ND ND	1.1 ND	0.9 1.1		0.5 ND	ND ND		185 122	ND ND	ND ND	ND ND	0.7 ND	2.6
Dec	0.86	ND ND		0.77	5.1	1.54	ND	2.47	ND	50	49	ND	ND	35	ND	ND	38	ND	ND	7.7	ND	ND	2.2	8	1.3	ND	0.9	1.1	2.9	ND	ND	15.0	164	ND	ND	ND	ND	1.7
Avg Max	0.94	ND ND	28 33	0.81		2.47	ND	3.17	ND	59	82	ND	0.6	35 41	ND	ND	38 44		ND	12.5	31.7	0.9	3.1	11	3.8	ND	2.0	2.0	3.5	0.6	ND	18.0	230	ND	ND	ND	1.1	5.1
Min	0.86	ND	23	0.42	6.3 4.3	0.77	ND	2.29	ND	40	18	ND	ND	29	ND	ND	32	1.1 ND	ND	4.1	ND	ND	1.3	6	ND	ND	ND	0.9	2.4	ND	ND	12.0	116	ND	ND	ND	ND	0.8
IAIIII	0.00	ND	23	0.42	4.3	0.77	ואט	2.23	IND	-+∪	10	עוו	עאו	4 3	שאון	שאו	JZ	שאו	עויו ן	7.1	עוו	שאו	1.3	. 0	שאו	עזו	עוו	0.5	4.4	שאו	שאו	12.0	110	ND	עוו	טאו	עאו	0.0

*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

HAH

WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2006)

			Mise	cellane	ous Pl	nysica	l Paran	neters	1			Microo	rganisn	าร		Haloa	cetic A	cids (HAAs)		Tri	ihalon	ethane	es (TH	Ms)					,	Volatil	le Orga	nic C	ompou	ınds (VOCs))				
EPA	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	ВКОМОБОКМ	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
MCL*					4.0		l			0.3	l .	Į.										l				5	l l					l l	5	100			Į.				75
	Del		- \A/-·	- _	_4	t t	- -		۱۹،	4																															
	Dale	ppm	uS/cm	er ire	ppm	nt Pla	ppm	nishe 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 p	ppb
Jan	7.7	60	313	48	3.7	112	1.50	168	ND	0.05	0	0	0	26	ND	12.0	ND	ND			11.2	3.9	ND	ND	15.1	ND	ND	ND	ND	ND	ND	ND	ND	-			ND				ND
Feb	7.7	64	327	47	3.8	115	1.36	210	ND	0.05	0	0	8	80							6.8	3.7	0.7	ND	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	_	ND		ND
Mar	7.7	85	370	54	3.7	139	1.36	196	ND	0.05	0	0	0	<1							6.9	4.1	0.9	ND	11.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND		ND
Apr	7.7	83	371	65	3.7	148	1.66	234	1	0.06	0	0	0	3	ND	11.1	ND	ND	11.8	22.9	14.0	6.2	1.1	ND	21.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND
May	7.7	71	321	69	3.7	122	1.58	168	ND	0.05	0	0	5	3							16.7	5.9	0.9	ND	23.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND
Jun	7.7	79	344	78	3.7	139	1.91	217	ND	0.06	0	0	4	16							25.8	8.2	1.4	ND	35.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND
Jul	7.7	95	371	81	3.8	151	2.01	255	ND	0.06	8.0	0	12	15	ND	18.0	ND	2.3	16.4	36.7	43.0	7.4	0.6	ND	51.0	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND	ND	ND		ND
Aug	7.7	102		83	3.8	160	2.08		4	0.06	0	0	3	27							40.9	11.1	1.7	ND	53.7	ND		ND	NR	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND
Sep	7.7	99	399	73	3.7	157	2.13	223	ND	0.05	0	0	5	21							32.6	11.3	2.1	ND	46.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Oct	7.7	96	412	64	3.8	159	1.90		ND	0.06	0	0	0	6 1	ND	10.7	ND	1.6	10.8	23.1	20.8	8.7	1.6	ND	31.1	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND ND		ND
Nov Dec	7.7	69 90	332 360	56 58	3.7	127 142	2.35 1.20	219 213	2 ND	0.06	0	0	0	1 <1							22.7 13.3	5.8 4.5	0.5	ND ND	29.0 18.4	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
Avg	7.7	83	361	65	3.7	139	1.75	_	ND	0.06	0	0	3	17	ND	13.0	ND	ND	13.0	26.9	21.2	6.7	1.0	ND	29.0	ND		ND	ND	ND	ND	ND		 	ND	ND	ND		ND		ND
Max	7.7	102		83	3.8	160	2.35	255	4	0.06	0.8	0	12	80	ND	18.0	ND	2.3	16.4	36.7	43.0	11.3	2.1	ND	53.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Min	7.7	60	313	47	3.7	112	1.20	168	ND	0.05	0	0	0	<1	ND	10.7	ND	ND	10.8	22.9	6.8	3.7	ND	ND	11.2	ND		ND	ND	ND	ND	ND	ND			ND	ND	ND	ND		ND
	McM	illan	Wate	r Trea	atmen	t Pla	nt Fin	ished	l Wate	er																															
Jan	7.7	52	325	42	3.7	108	1.52	173	ND	0.04	0.8	0	0	<1	ND	10.8	ND	ND	10.6	21.4	13.3	6.3	1.2	ND	20.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND
Feb	7.7	52	296	42	3.7	104	1.34	152	ND	0.04	0	0	0	<1							10.5	4.6	0.8	ND	15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND
Mar	7.7	70	345	48	3.7	125	1.38	161	ND	0.05	0	0	0	<1							7.2	4.6	1.1	ND	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND
Apr	7.7	77	373	60	3.8	140	1.55	+	1	0.08	0	0	2	1	ND	10.8	ND	ND	11.5	22.3	17.2	6.9	1.7	ND	25.8	ND	ND	ND	ND	ND	ND	ND	ND	_			ND	ND			ND
May	7.7	57	301	67	3.7	111	1.63	173	ND	0.06	0	0	13	12							30.2	7.3	0.9	ND	38.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND		ND
Jun	7.7	67	334	77	3.7	124	1.82	198	3	0.08	0	0	12	28							36.4	9.3	1.4	ND	47.1	ND	ND	ND	ND	ND	ND	ND	ND	_			ND	ND			ND
Jul	7.7	74	336	82	3.7	130	2.17	228	2	0.08	0	0	32	48	ND	27.0	ND	2.3	18.0	47.3	70.4	9.5	0.7	ND	80.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND.
Aug	7.7	90	395	84	3.7	151	1.93	237	5	0.06	0	0	9	183							47.8	13.4	2.3	ND	63.5	ND	ND	ND	NR	ND	ND	ND	ND	-			ND	_			ND
Sep Oct	7.7	86 88	394 404	73 63	3.7	146 152	2.08 1.95	237	ND ND	0.05	0	0	<u>8</u> 0	272 12	ND	13.7	ND	1.7	11.1	26.5	42.6 31.4	13.6 10.5	2.9 1.8	ND ND	59.1 43.7	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
Nov	7.7	61	330	52	3.7	119	2.37	201	1	0.04	0	0	0	4						20.5	27.8	6.8	0.7	ND	35.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Dec	7.7	71	352	56	3.7	128	1.45		ND	0.03	0	0	0	5							21.0	5.5	0.7	ND	27.2	ND		ND	ND	ND	ND	ND	ND	-			ND				ND
Avg	7.7	70	349	62	3.7	128	1.77	+	1	0.05	0	0	6	47	ND	15.6	ND	1.0	12.8	29.4	29.7	8.2	1.4	ND	39.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
Max	7.7	90	404	84	3.8	152	2.37	237	5	0.08	0.8	0	32	272	ND	27.0	ND	2.3	18.0	47.3	70.4	13.6	2.9	ND	80.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND
Min	7.7	52	296	42	3.7	104	1.34	152	ND	0.03	0	0	0	<1	ND	10.8	ND	ND	10.6		7.2	4.6	0.7	ND	12.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	ND

 $^{^{\}star}$ 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

**Turbidity = Water turbidity after filters

NR = Not Reported



WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2006)

	Τ	_															٧	olatile	e Orga	anic C	ompo	unds																	Syn	thetic	Organ	ic Con	npour	nds
																					Ċ																							
EPA	1,2-DICHLOROBENZENE	DICHLORODIFLUOROMETHANE	1,1-DICHLOROETHANE	1,2-DICHLOROETHANE	trans-1,2-DICHLOROETHYLENE	cis-1,2-DICHLOROETHYLENE	1,1-DICHLOROETHYLENE	1,3-DICHLOROPROPANE	2,2-DICHLOROPROPANE	1,2-DICHLOROPROPANE	trans-1,3-DICHLOROPROPENE	cis-1,3-DICHLOROPROPENE	1,1-DICHLOROPROPENE	ETHYLBENZENE	HEXACHLOROBUTADIENE	ISOPROPYLBENZENE	4-ISOPROPYLTOLUENE	METHYLENE CHLORIDE	METHYL TERT-BUTYL ETHER (MTBE)	NAPHTHALENE	NITROBENZENE	n-PROPYLBENZENE	STYRENE	1,1,1,2-TETRACHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	TETRACHLOROETHYLENE	TOLUENE	1,2,3-TRICHLOROBENZENE	1,2,4-TRICHLOROBENZENE	1,1,1-TRICHLOROETHANE	1,1,2-TRICHLOROETHANE	TRICHLOROETHYLENE	TRICHLOROFLUOROMETHANE	1,2,3-TRICHLOROPROPANE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	TOTAL XYLENES	VINYL CHLORIDE	ACENAPHTHYLENE	ACETOCHLOR	ALACHLOR	ALDICARB	ALDICARB SULFONE	ALDICARB SULFOXIDE
MCL*	600	<u> </u>	<u> </u>	5	100	70	7	l .	<u> </u>	5	<u> </u>			700				5	l .				100			5	1000	<u> </u>	70	200	5	5					10,000	2	<u> </u>	<u> </u>	2	3	2	4
	Dale	carli	a Wat	ter Tr	eatm	ent F	Plant	Finis	shed	Wate	er																																	
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	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
Feb	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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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Sep 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
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	McN	/lillan	Wate	er Tre	atme	ent Pl	lant F	inis	hed V	Vater	-																																	
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Nov	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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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141111	שאו	. 1412	140	עויו	יאט	140	ם או	140	.40	שויו	140	יאט	יייי	יייי	שויו	יייי	יייי	עאו	ם או	140	140	שאו	עאו	שאו	יייי	יאט	שאו	עזיו	יייי	עויו	שה	שהו	יייי	עויו	שאו	שאו	עאו	140		שאון	שה	ן עדי	עה	.40

*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

HMH

WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2006)

Ш	111																									`																		
																				Sy	nthetic	Orga	nic Co	npoun	ds					ı	ı													
EPA	ALDRIN	ANTHRACENE	AROCLOR 1016	AROCLOR 1221	AROCLOR 1232	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	ATRAZINE	BAYGON	BENTAZON	BENZO(a)ANTHRACENE	BENZO(k)FLUORANTHENE	BENZO(g,h,I)PERYLENE	BENZO(a)PYRENE	alpha-BHC	beta-BHC	delta-BHC	BROMACIL	BUTACHLOR	BUTYLBENZYLPHTHALATE	CAFFEINE	CARBARYL	CARBOFURAN	alpha-CHLORDANE	gamma-CHLORDANE	CHLORDANE	CHLORTHALONIL	CHRYSENE	2,4-D	DALAPON	2,4DB	DCPA MONO & DIACID DEGRADATE	QQQ,d'd	p,p'DDE	TOO'q,q	DIBENZ(a,h)ANTHRACENE	ЫСАМВА	3,5-DICHLOROBENZOIC ACID	DICHLORPROP	DIELDRIN	DIETHYLPHTHALATE	dŀ(2-ETHYLHEXYL)ADIPATE
MCL*			0.5	0.5	0.5	0.5	0.5	0.5	0.5	3	I					0.2				ı	I	I	ı		40			2			70	200	<u> </u>		ı									400
	Dale	carlia	Wat	er Tre	eatme	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
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Max	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	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	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
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	McM	lillan '	Wate	r Trea	atmei	nt Pla	nt Fi	nishe	d Wa	iter																																		
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Dec																																					<u></u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	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

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

ppb = Parts Per Billion

ppm = Parts Per Million

= Not Detected

"----" = No Analysis Required

HAH

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\sqsubseteq	<u> </u>	<u> </u>																																									
																				Synth	etic Or	ganic	Comp	ounds																			
EPA	di-(2-ЕТНҮLHEXYL)РНТНАLATE	DIMETHOATE	DIMETHYLPHTHALATE	DI-N-BUTYLPHTHALATE	2,6-DINITROTOLUENE	2,4-DINITROTOLUENE	DINOSEB	DIQUAT	ENDOTHALL	ENDRIN	EPTC	FLUORANTHENE	FLUORENE	GLYPHOSATE	HEPTACHLOR	HEPTACHLOR EPOXIDE	HEXACHLOROBENZENE	HEXACHLOROCYCLOPENTADIENE	3-HYDROXYCARBOFURAN	INDENO(1,2,3,c,d)PYRENE	ISOPHORONE	LINDANE	METHIOCARB	МЕТНОМУL	METHOXYCHLOR	METOLACHLOR	METRIBUZIN	MOLINATE	trans-NONACHLOR	OXAMYL	PARAQUAT	PENTACHLOROPHENOL	PHENANTHRENE	PICLORAM	PROMETRYN	PROPACHLOR	PYRENE	SIMAZINE	TERBACIL	THIOBENCARB	TRIFLURALIN	TOXAPHENE	2,4,5-TP (SILVEX)
MCL*	6						7	20	100					700	0.4	0.2	1	50	•			0.2			40	•				200		1		500		•	•	4				3	50
				<u> </u>					ned W		ı	ı									1						ı	ı															
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	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
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	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.0	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	0.05	ND	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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Max	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	80.0	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
	McM	illan	Wate	r Tre	atme	nt Pla	ant Fi	inishe	ed Wa	ater																																	
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
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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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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	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

*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



Jan Feb

Mar Apr

May Jun

Jul Aug

Sep Oct

Nov Dec

Avg Max

Min

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		Mis	scellaned	ous	
EPA	DIBROMOCHLOROPROPANE (DBCP)	ETHELYNE DIBROMIDE (EDB)	CYANIDE	DIOXIN	N-nitrosodymethylamine (NDMA)
MCL*	0.2	50	0.2	30	

Dalecarlia Water Treatment Plant Finished Water

ppb	ppt	ppm	pg/L	ppt
		ND		ND
ND	ND		ND	
ND	ND	ND	ND	2.3
ND	ND	ND	ND	ND
ND	ND		ND	ND
		ND		
ND	ND	ND	ND	ND
ND	ND	ND	ND	2.3
ND	ND	ND	ND	ND

ppb = Parts Per Billion ppm = Parts Per Million

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

ppt = Parts Per Trillion

pCi/L = Picocuries per Liter

ND = Not Detected

NR = Not Reported

"----" = No Analysis Required

McMillan Water Treatment Plant Finished Water

Jan			ND		ND
Feb					
Mar	ND	ND		ND	
Apr	ND	ND	ND	ND	ND
May					
Jun					
Jul	ND	ND	ND	ND	ND
Aug					
Sep					
Oct	ND	ND		ND	ND
Nov			ND		
Dec					
Avg	ND	ND	ND	ND	ND
Max	ND	ND	ND	ND	ND
Min	ND	ND	ND	ND	ND