

Washington Aqueduct

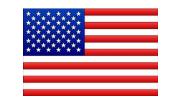
U.S. ARMY Corps of Engineers

Annual Report of Water Analysis 2009

Prepared by:

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







Potomac River Raw Water Supply

			1	Miscellan	eous Ph	ysical Pa	rameters	;							Inorgar	nic Ions						Mic	roorganisr	ns	
	рН	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	7.7	71	338	165	ND	45	113	2.18	165	9	ND	ND	24	0.25	3.4	2.24	0.02	0.77	ND	35	213	282	19	ND	ND
Feb	8.3	77	446	140	ND	46	125	2.21	140	4	ND	ND	43	0.23		1.87	ND	ND	ND	34	304	8	1	ND	ND
Mar	8.2	89	423	211	ND	52	131	2.41	211	10	0.07	ND	41	0.13		1.48	0.03	ND	ND	38	336	56	1	ND	ND
Apr	7.7	63	262	130	ND	59	92	3.15	130	16	0.07	ND	29	0.14	ND	1.29	0.04	ND	ND	28	308	446	5	ND	ND
May	7.6	65	260	150	3	67	99	3.69	153	19	0.05	ND	21	0.13		1.48	0.03	ND	ND	24	357	4813	251	ND	ND
Jun	7.7	72	251	142	14	74	105	3.79	156	14	ND	ND	20	0.31		1.56	0.03	ND	0.5	25	448	2590	47	ND	ND
Jul	8.0	94	363	203	1	79	135	2.39	204	4	ND	ND	28	0.26	5.5	1.09	ND	ND	1.2	37	747	653	4	ND	ND
Aug	8.0	97	351	209	ND	81	137	3.22	209	6	ND	ND	29	0.31		1.10	ND	ND	0.9	36	618	739	8	ND	ND
Sep	8.5	95	402	235	ND	74	137	2.80	235	4	ND	ND	32	0.28		0.75	ND	ND	1.2	42	469	4329	13	ND	ND
Oct	8.1	87	448	266	2	63	140	3.96	268	6	ND	ND	34	0.29	5.1	1.14	ND	ND	ND	42	600	1857	76	ND	ND
Nov	7.8	86	330	197	4	59	127	3.31	201	6	ND	ND	29	0.27		1.86	ND	ND	ND	29	294	122	7	ND	ND
Dec	7.8	62	301	5	35	50	98	2.79	40	16	ND	ND	30	0.16		1.88	ND	ND	0.6	23	248	4835	32	ND	ND
Avg	7.9	80	348	171	5	62	120	2.99	176	10	ND 0.07	ND	30	0.23	3.5	1.48	ND 0.04	ND 0.77	ND	33	412	1728	39	ND	ND
Max	8.5	97	448	266	35 ND	81	140	3.96	268	19	0.07	ND ND	43	0.31	5.5	2.24	0.04 ND	0.77	1.2	42	747	4835	251	ND ND	ND ND
Min	7.6	62	251	5	ND	45	92	2.18	40	4	ND	ND	20	0.13	ND	0.75	ND	ND	ND	23	213	8	1	ND	ND

														Metals	3												
	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	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	295	ND	ND	31.8	ND	ND	33	1.4	ND	1.5	276	0.5	2.1	7	44	ND	1.9	2.6	ND	ND	17	135	ND	ND	ND	0.5	3.8
Feb	247	ND	ND	34.2	ND	ND	36	0.8	ND	1.9	136	0.8	2.1	9	36	0.6	2.3		ND	ND		174	ND	ND	ND	ND	4.5
Mar	296	ND	ND	34.3	ND	ND	38	2.6	ND	1.9	106	ND	2.5	9	48	0.6	2.3		ND	ND		177	ND	ND	ND	1.1	3.2
Apr	485	ND	0.8	45.9	ND	ND	27	1.9	0.7	2.9	763	1.4	3.0	6	89	ND	3.1	2.2	ND	ND	11	183	ND	ND	ND	1.2	5.0
May	279	ND	ND	36.9	ND	ND	30	1.1	ND	1.7	354	0.8	2.1	6	79	ND	2.1		ND	ND		131	ND	ND	ND	1.0	3.0
Jun	252	ND	0.5	36.7	ND	ND	30	1.2	ND	2.3	283	0.6	1.9	8	50	0.5	2.4		ND	ND		133	ND	ND	ND	1.0	2.5
Jul	198	ND	0.5	40.5	ND	ND	36	0.9	ND	1.9	145	ND	2.4	11	42	0.7	2.2	3.0	ND	ND	18	170	ND	ND	ND	1.1	1.9
Aug	129	ND	1.0	41.5	ND	ND	37	1.1	ND	2.6	124	ND	2.4	11	39	1.1	2.4	3.0	ND	ND	17	178	ND	ND	ND	1.6	2.1
Sep	255	ND	0.8	34.6	ND	ND	36	0.9	ND	2.4	210	ND	1.9	12	44	1.1	2.2		ND	ND		156	ND	ND	ND	1.3	2.1
Oct	214	ND	0.6	36.6	ND	ND	37	2.0	ND	1.8	68	ND	2.9	12	25	1.3	2.1	5.3	ND	ND	12	223	ND	ND	ND	1.5	1.5
Nov	187	ND	ND	31.8	ND	ND	39	0.8	ND	2.0	185	ND	1.4	8	39	0.7	2.1		ND	ND		141	ND	ND	ND	ND	2.2
Dec	229	ND	ND	32.6	ND	ND	28	1.3	ND	1.7	251	ND	1.7	7	39	0.8	2.3		ND	ND		150	ND	ND	ND	ND	3.0
Avg	256	ND	ND	36.5	ND	ND	34	1.3	ND	2.0	242	ND	2.2	9	48	0.7	2.3	3.2	ND	ND	15	163	ND	ND	ND	8.0	2.9
Max	485	ND	1.0	45.9	ND	ND	39	2.6	0.7	2.9	763	1.4	3.0	12	89	1.3	3.1	5.3	ND	ND	18	223	ND	ND	ND	1.6	5.0
Min	129	ND	ND	31.8	ND	ND	27	0.8	ND	1.5	68	ND	1.4	6	25	ND	1.9	2.2	ND	ND	11	131	ND	ND	ND	ND	1.5

ppb = Parts Per Billion ppm = Parts Per Million ppm = Parts Per Million ND = Not Detected "---" = No Analysis Required



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			1	- 1	norgar	nic Ions	s	1				1				1		1	1	1	1		-	Met	tals				1					1				
EPA	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
MCL*			l	4		10	1	l .				6	10	2000	4	5		100	l	l						2	1		<u> </u>	50				2		30		-
Units	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
	Daled	carlia	Wate	r Trea	tmen	t Plan	<u>ıt Fini</u>	shed	Wate							ı		1	ı	ı	1			1 1			1		1 1					-			— т	
Jan	0.87	ND	31	0.79	4.0	2.22	ND	2.38	ND	49	22	ND	ND	31	ND	ND	39	1.3	ND	0.8	12	ND	1.7	7	1.0	ND	ND	1.7	2.4	ND	ND	15	145	ND	ND	ND	ND	1.2
Feb	0.84	ND	47	0.71		1.89	ND	2.37	ND	44	18	ND	ND	32	ND	ND	39	1.2	ND	1.3	13	ND	2.4	9	8.0	ND	0.7	2.3		0.6	ND		181	ND	ND	ND	0.5	1.9
Mar	0.88	ND	45	0.85		1.49	ND	2.59	ND	51	26	ND	0.5	30	ND	ND	44	1.9	ND	1.1	ND	ND	1.9	10	0.9	ND	0.6	2.1		0.6	ND		172	ND	ND	ND		2.3
Apr	0.15	ND	32	0.81	14.0	1.30	ND	2.48	ND	43	23	ND	0.7	38	ND	ND	36	1.5	ND	1.1	ND	ND	2.5	6	2.1	ND	0.6	2.4	2.0	0.7	ND	10	180	ND	ND	ND		ND
May	0.78	ND	25	0.85		1.41	ND	2.51	0.6	41	23	ND	ND	30	ND	ND	39	1.2	ND	0.7	ND	ND	1.8	6	1.3	ND	ND	1.7		ND	ND		127	ND	ND	ND	0.7	0.7
Jun	0.83	ND	26	0.99		1.59	ND	2.59	ND	43	27	ND	ND	33	ND	ND	40	2.3	ND	0.8	ND	ND	1.6	7	0.9	ND	ND	1.9	2.8	0.7	ND	47	133	ND	ND	ND		ND 0.7
Jul	0.79	ND ND	32	0.91	8.3	1.08	ND ND	2.50	0.9 ND	55 59	41 41	ND ND	ND ND	40 42	ND ND	ND ND	45 48	1.9 ND	ND ND	1.6	ND ND	ND 0.7	1.8 2.3	10	2.0	ND ND	0.7 1.2	2.0	3.1	0.8	ND ND	17 13	169 174	ND ND	ND ND	ND ND	1.1	0.7
Aug Sep	0.77		37	0.93		0.80	ND	2.63	0.6	62	43	ND	ND	37	ND	ND	44	1.4	ND	1.3	ND	0.7	2.2	12	1.6	ND	1.2	2.2	J. I	0.7	ND		174	ND	ND	ND	1.4	0.6
Oct	0.80		36	0.90	8.4	1.09	ND	2.48	ND	58	37	ND	0.5	36	ND	ND	44	1.8	ND	1.3	ND	ND	2.4	11	1.3	ND	1.3	2.3	4.1	0.7	ND	19	231	ND	ND	ND	1.1	1.2
Nov	0.72	ND	32	0.79		1.73	ND	2.42	ND	47	37	ND	ND	31	ND	ND	47	1.1	ND	1.0	ND	0.6	1.3	8	1.2	ND	0.7	2.1		ND	ND		144	ND	ND	ND		0.9
Dec	0.73	ND	36	0.87		1.90	ND	2.40	ND	42	30	ND	ND	31	ND	ND	38	2.3	ND	1.0	ND	ND	1.6	8	1.0	ND	0.6	2.2		ND	ND		163	ND	ND	ND	0.9	1.2
Avg	0.74	ND	34	0.86	8.7	1.46	ND	2.49	ND	50	31	ND	ND	34	ND	ND	42	1.5	ND	1.1	ND	ND	2.0	9	1.2	ND	0.6	2.1	2.9	ND	ND	15	166	ND	ND	ND	0.8	1.0
Max	0.88	ND	47	0.99	14.0	2.22	ND	2.63	0.9	62	43	ND	0.7	42	ND	ND	48	2.3	ND	1.6	13	0.7	2.5	12	2.1	ND	1.3	2.8	4.1	0.8	ND	19	231	ND	ND	ND	1.4	2.3
Min	0.15	ND	25	0.71	4.0	0.80	ND	2.37	ND	41	18	ND	ND	30	ND	ND	36	ND	ND	0.7	ND	ND	1.3	6	0.8	ND	ND	1.7	2.0	ND	ND	10	127	ND	ND	ND	ND	ND
	McMi	llan V	Vater	Treat	ment	Plant	Finis	hed V	Vater												1			1														
Jan	0.89	ND	29	0.79	3.9	2.17	ND	2.38	ND	50	51	ND	ND	29	ND	ND	38	ND	ND	5.3	ND	ND	1.8	7	2.2	ND	ND	1.7	2.3	ND	ND	14	129	ND	ND	ND		2.0
Feb	0.84	ND	49	0.65		2.07	ND	2.34	ND	47	18	ND	ND	34	ND	ND	41	1.1	ND	2.8	ND	ND	2.1	8	8.0	ND	0.6	2.3		0.6	ND		173	ND	ND	ND		2.3
Mar	0.92	ND	43	0.79		1.50	ND	2.43	0.7	51	20	ND	ND	29	ND	ND	42	1.5	ND	1.9	ND	ND	2.0	9	ND	ND	0.5	2.0		0.5	ND		157	ND	ND	ND		1.6
Apr	0.14	ND	37	0.90	11.0	1.26	ND	2.32	ND	48	38	ND	ND	40	ND	ND	37	1.6	ND	2.3	ND	ND	2.7	7	1.1	ND	0.7	2.5	2.2	0.6	ND	13	193	ND	ND	ND	0.6	0.8
May	0.77	ND	25	0.96		1.27	ND	2.37	ND	43	31	ND	ND	29	ND	ND	34	1.0	ND	13	ND	ND	2.0	6	0.5	ND	ND	1.6		ND 0.7	ND		114	ND	ND	ND		1.3
Jun	0.83	ND	27	0.72	7.6	1.38	ND	2.30	ND	44	37	ND	ND	35	ND	ND	35	1.5	ND	12	ND	ND	2.0	8	0.8	ND	0.5	2.1	2.7	0.7	ND	16	122	ND	ND	ND		0.9
Jul Aug	0.04	ND	31	0.96	7.0	1.04	ND	2.46	U.9	61	52	ND	ND	40	ND	ND	41	1.1	ND	6.7	ND	ND	2.4	10	1.5	ND	1.0	2.1	2.7	1.0	ND	16	198	ND	ND	ND	0.8	ND.
Sep																						0.8											213				0.9	
	0.82															ND						ND							4.0				227				0.8	
Nov																						0.5								ND			124					
Dec																ND						ND								0.7			168				0.8	
Avg																ND		1.2				ND											165				0.6	
Max	0.92	ND	49	0.97	11.0	2.17	ND	2.65	1.4	62						ND						8.0															0.9	
Min	0.14	ND	25	0.65	3.9	0.76	ND	2.30	ND	43	18	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



		J																																							
			Misc	ellane	ous Ph	nysica	l Parar	neters		ı	ı	Microo	rganis	ms		Haloa	cetic /	Acids ((HAAs))	Tri	halom	ethane	es (TH	Ms)			1		V	olatile	Orga	nic C	ompoi	unds ((VOCs)				
EPA	Hd	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
MCL*													ı							ı						5		1					5	100							75
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
	.		- 187-1		4																																				
Jan	7.7	69	388	er Iro	3.7	131	1.53	inish 186	ed W	o.o5	0	0	0	<1	ND	7.6	ND	1.2	7.6	16.4	6.8	3.8	0.8	ND	11.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Feb	7.8	72	428	45	3.8	138	1.45		ND	0.06	0	0	0	<1							6.2	5.1	1.6	ND	12.9	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND				ND
Mar	7.7	83	456	52	3.7	149	1.62		ND	0.07	0	0	0	<1							9.3	6.2	1.4	ND	16.9	ND	ND	ND			ND	ND	ND	ND	ND	ND	ND				ND
Apr	7.7	60	331	58	3.6	115	1.72		ND	0.06	0	0	0	<1	ND	11.5	ND	1.5	12.0	25.0	20.0	6.9	1.0	ND	28.1	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND				ND
May	7.7	66	322	67	3.7	123	1.85	195	ND	0.06	0	0	0	<1							23.0	8.0	1.2	ND	32.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Jun	7.7	70	303	75	3.7	131	2.18	185	ND	0.07	0	0	0	<1							32.2	9.0	1.0	ND	42.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Jul	7.7	87	405	81	3.7	158	1.59	247	ND	0.07	0	0	0	<1	ND	13.8	ND	1.6	14.2	29.6	27.4	11.1	2.8	ND	41.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Aug	7.7	91	411	84	3.6	161	2.09	248	ND	0.08	0	0	3	<1							55.6	12.5	1.3	ND	69.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Sep	7.7	86	438	75	3.7	157	1.92	237	4	0.07	0	0	0	<1							36.7	10.8	1.2	ND	48.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Oct	7.7	87	424	63	3.7	155	1.93		1	0.07	0	0	0	<1	ND	10.0	ND	1.7	10.6	22.2	20.2	8.8	1.3	ND	30.7	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND				ND
Nov	7.7	83	392	56	3.7	148	2.00	209	ND	0.06	0	0	0	<1							20.0	6.4	0.7	ND	27.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
Dec	7.7	61	367	45	3.7	125	1.59	1	2	0.06	0	0	0	<1		40.7		4.5	44.4		12.2	5.8	1.0	ND	19.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND
Avg	7.7	76 91	389	62	3.7	141	1.79		ND	0.07	0	0	0	<1	ND	10.7	ND	1.5	11.1	23.3	22.5	7.9	1.3	ND	31.6	ND	ND	ND	ND ND		ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND				ND ND
Max Min	7.8	60	456 303	84 42	3.8	161 115	2.18 1.45		4 ND	0.08	0	0	0	<1 <1	ND ND	13.8 7.6	ND ND	1.7	7.6	29.6 16.4	6.2	12.5 3.8	0.7	ND ND	69.4 11.3	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND	ND	ND	ND	ND ND				ND
IVIIII	1.1	00	303	72	3.0	113	1.45	134	שאון	0.03				"	IND	7.0	IND	1.2	7.0	10.4	0.2	3.0	0.7	שאו	11.5	IND	IND	ווט	ועט	NU	ואט	NU	שוו	ND	מא	עאו	ואט	ND	ND	110 1	ND
	McM	illan	Wate	r Tre	atme	nt Pla	ant Fi	nishe	d Wa	ter																															
Jan	7.7	60	380	53	3.8	124	1.68	188	ND	0.03	0	0	0	2	ND	9.6	ND	1.9	7.3	18.8	9.1	4.5	1.1	ND	14.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Feb	7.8	69	452	49	3.7	136	1.41	199	ND	0.03	0	0	0	2							5.9	4.9	1.8	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Mar	7.8	73	427	46	3.7	141	1.67	200	ND	0.05	0	0	0	2							8.0	5.7	1.5	ND	15.2	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND			ND
Apr	7.7	53	338	49	3.9	121	2.14		ND	0.04	0	0	0	39	ND	10.5	ND	1.4	11.9	23.8	22.5		1.7	ND	32.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				ND
May	7.8	51	299	58	3.7	108	2.07	165	ND	0.06	0	0	0	57							23.0		0.9	ND	30.9	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND				ND
Jun	7.7	57	288	74	3.7	120	2.15		ND	0.05	0	0	0	88 32	ND.	47.0		2.2	45.5	24.7	51.0		1.4	ND	63.5	ND	ND	ND	ND		ND		ND	ND	ND	ND	ND				ND
Jul Aug	7.7	81	405	81	3.7	154	2 17	278	שא	0.04	n	0	13			17.0									65.3																
Sep										0.05			0	58			-		_						52.2																
Oct										0.06		0	0	58											36.2																
Nov										0.04		0	0	7											33.2																
Dec										0.03		0	0	1											24.4																
Avg										0.05		0	2	35						25.2	24.8	9.4	2.0	ND	36.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND
Max										0.06		0	13	88											65.3																
Min	7.7	51	288	46	3.7	108	1.41	162	ND	0.03	0	0	0	1	ND	9.6	ND	1.4	7.3	18.8	5.9	4.5	0.9	ND	12.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND I	ND

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ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected



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							-			1							Vol	atile (Organ	ic Co	mpou	nds				1				1			1						Sy	ntheti	ic Org	janic (Comp	ounds	<u>; </u>
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	SOPROPYLBENZENE	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	ACENAPHTHENE	ACENAPHTHYLENE	ACETOCHLOR	ACIFLUORFEN	ALACHLOR	ALDICARB	ALDICARB SULFONE
MCL*	600	1		5	100	70	7			5				700				5					100			5	1000		70	200	5	5					10,000	2					2		\dashv
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
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	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,l)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
PA CL*				0.5	0.5	0.5	0.5	0.5	0.5	0.5							0.2										40									70	200							
ts	ppb	ppb	ppb	ppb	0.5 ppb	0.5 ppb	0.5 ppb	ppb	0.5 ppb	0.5 ppb	ppb	ppb	ppb	ppb	ppb	ppb	0.2 ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	40 ppb	ppb	ppb	2 ppb	ppb	ppb	ppb	ppb	ppb	ppb	200 ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
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ppm = Parts Per Million

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EPA	3,5-DICHLOROBENZOIC ACID	DICHLORPROP	DICHLORVOS (DDVP)	DIELDRIN	DIETHYLPHTHALATE	di-(2-ETHYLHEXYL)ADIPATE	d⊦(2-ЕТНҮLНЕХҮL)РНТНАLATE	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	METRIBUZIN	MOLINATE	trans-NONACHLOR	OXAMYL	PARAQUAT	PARATHION
MCL*						400	6		l			l		7	20	100	2					700	0.4	0.2	1	50	l		l	0.2		I					40					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
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ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected "---" =



EPA MCL*

Jan Feb Mar

Apr

May Jun

Jul Aug

Sep Oct

Nov Dec

Avg Max

Min

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

WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2009)

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						Synt	hetic O	rganic (Compo	ınds							Mis	cellane	ous	
	PENDIMETHALIN	PERMETHRIN	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-nitrosodimethylamine (NDMA)
,		I	1	I	500	I		4					3		50	0.2	50	0.2	30	
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppt	ppm	ppq	ppt
i				Freatm			nished													
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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)

ND = Not Detected