

Washington Aqueduct

U.S. ARMY Corps of Engineers

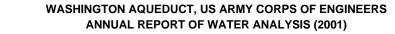
Annual Report of Water Analysis 2001

Prepared by:

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









Potomac River Raw Water Supply

	Pott	omac	Rive	r Raw	vvate	er Su	ppiy																			
			Mis	cellaneo	us Phy	/sical l	Parame	eters						Inor	ganic I	ons					Microo	rganism	s		Met	als
	Нф	ALKALINITY	ANIONIC SURFACTANTS	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORG. CARBON	TURBIDITY	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	NITRATE	NITRITE	PHOSPHATE	SILICATE	SULFATE	TOTAL COLIFORM	E. COLI	ALGAE COUNT	WIIIGIGGGGCTGXGG	CATTIOSPORIDION	WUNINUA	ANTIMONY
		ppm	ppm	uS/cm	ppm	ppm	F	ppm	ppm	NTU	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	MPN/100ml	MPN/100ml	Org/ml	oocys	ts/10L	ppb	ppb
Jan	7.7	92	ND	350	206	2	40	126	3.5	9.0	ND	ND		0.2	2.0	ND	ND	4.2	-	1869	323	277	N	ID	405.0	ND
Feb	8.0	69	ND	292	145	2	45	78	2.7	12.0	ND	ND	24.8	0.1	1.7	ND	ND	6.1	34.5	3473	111	453	N	ID	722.0	ND
Mar	8.2	67	ND	280	115	4	48	92	2.8	13.0	ND	ND	25.9	0.1	1.5	ND	ND	8.4	27.7	831	52	644	N	ID	350.0	ND
Apr	7.8	66	ND	231	134	11	58	83	2.7	13.0	ND	ND	15.8	0.1	1.6	ND	ND	5.7	23.0	2245	182	453	N	ID	226.0	ND
May	8.2	94	ND	291	184	9	73	101	2.7	10.0	ND	ND	18.0	0.1	1.3	ND	ND	2.3	25.3	3981	241	565	N	ID	245.4	0.5
Jun	7.9	79	ND	250	172	22	79	93	3.6	40.0	ND	ND	16.2	0.1	1.4	ND	ND	8.6	30.1	6783	439	386	N	ID	459.0	ND
Jul	8.0	84	ND	292	148	3	82	100	3.2	9.0	ND	ND	17.3	ND	0.7	ND	ND	6.2	26.0	5609	29	606	N	ID	457.0	ND
Aug	7.8	60	-	277	177	4	82	104	3.8	10.0	ND	ND	10.9	0.1	0.7	ND	ND	6.2	39.3	8210	78	400	N	ID	431.0	ND
Sep	7.9	95	ND	365	197	2	76	133	3.2	9.0	ND	ND	24.4	0.2	0.5	ND	ND	4.2	44.3	6435	1306	120	N	ID	362.0	ND
Oct	8.2	112	ND	384	260	2	63	143	3.4	4.0	ND	ND	24.7	0.2	0.9	ND	ND	1.3	38.4	1209	75	140	N	ID	409.3	ND
Nov	8.2	127	ND	433	221	6	55	169	3.5	3.0	ND	ND	28.7	0.2	0.4	ND	ND	1.0	59.0	520	309	48		ID	292.0	ND
Dec	8.2	125	ND	447	288	1	51	183	3.1	3.0	ND	ND	31.5	0.2	1.2	ND	ND	1.8	55.7	267	42	136		D	299.0	ND
Avg	8.0	89	ND	324	187	6	63	117	3.2	11.3	ND	ND	21.7	0.1	1.2	ND	ND	4.7	36.7	3453	266	352		ID	388.1	ND
Max	8.2	127	ND	447	288	22	82	183	3.8	40.0	ND	ND	31.5	0.2	2.0	ND	ND	8.6	59.0	8210	1306	644		ID	722.0	0.5
Min	7.7	60	ND	231	115	1	40	78	2.7	3.0	ND	ND	10.9	ND	0.4	ND	ND	1.0	23.0	267	29	48	N	ID	226.0	ND
													NA.	etals												
		1											IVI	etais	_											
	ARSENIC	BARIUM	BERYLLIUM	САБМІՍМ	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	TEAD	MUIHTIL	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	МИЦПАНТ	THORIUM	URANIUM	MUIDANAV	ZINC
	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	ND	38.0	ND	ND	36.0	ND	ND	3.0	131.0	ND	3.0	9.0	31.0	ND	ND	1.0		ND	ND		189.0	ND	ND	ND	0.6	1.0
Feb	ND	35.0	ND	ND	21.0	1.0	ND	5.0	397.0	ND	2.0	6.0	77.0	ND	ND	2.0	-	ND	ND	-	113.0	ND	ND	ND	0.7	6.0
Mar	ND	31.0	ND	ND	26.0	ND	ND	3.0	134.0	ND	3.0	6.0	59.0	ND	ND	1.0	1.8	0.7	ND	14.0	152.0	ND	ND	ND	0.6	ND
Apr	0.6	36.0	ND	ND	25.0	ND	ND	2.0	247.0	ND	1.5	5.0	58.0	ND	ND	1.1	-	0.8	ND		110.5	ND	ND	ND	8.0	1.9
May	0.6	31.0	ND	ND	32.0	ND	ND	3.2	144.7	0.5	2.6	7.0	169.9	ND	0.7	1.1	-	0.8	ND		159.9	ND	ND	ND	1.0	1.8
Jun	1.0	45.9	ND	ND	27.1	ND	0.5	3.7	381.0	0.7	2.7	6.0	80.9	ND	ND	1.7	1.9	0.7	ND	8.2	141.0	ND	ND	ND	1.7	2.4
Jul	1.3	34.8	ND	ND	28.0	1.3	0.5	7.0	135.0	0.7	1.6	8.0	189.0	ND	1.2	6.4	-	ND	ND	-	142.0	ND	ND	ND	1.6	5.5
Aug	1.1	59.5	ND	ND	30.0	ND	ND	4.2	117.5	ND		8.0	211.0	ND	2.0	1.6	-	8.0	ND	-	239.0	ND	ND	ND	1.4	2.3
Sep	1.1	44.7	ND	ND	32.0	ND	ND	3.6	110.5	ND	3.6	13.0	63.0	ND	1.9	1.2	-	8.0	ND	-	210.0	ND	ND	ND	1.7	1.6
Oct	1.0	47.4	ND	ND	40.0	ND	ND	4.3	104.1	ND	4.1	12.0	39.4	ND	2.6	1.1		1.7	ND	-	250.3	ND	ND	ND	1.1	2.0
Nov	8.0	46.5	ND	ND	48.0	0.5	ND	6.0	143.0	ND	2.9	13.0	33.6		2.1	1.7		1.8	ND		227.0	ND	ND	ND	1.2	4.4
Dec	1.2	39.9	ND	ND	51.0	ND	ND	4.7	90.2	ND	4.0	13.0	17.1	ND	2.7	1.2	-	1.6	ND		298.0	ND	ND	ND	1.9	1.4
Avg	0.7	40.8	ND	ND	33.0	ND	ND	4.1	177.9	ND	2.8	8.8	85.7	ND	1.1	1.8	1.9	8.0	ND	11.1	186.0	ND	ND	ND	1.2	2.8
Max	1.3	59.5	ND	ND	51.0	1.3	0.5	7.0	397.0	0.7	4.1	13.0	211.0	ND	2.7	6.4	1.9	1.8	ND	14.0	298.0	ND	ND	ND	1.9	6.0
Min	ND	31.0	ND	ND	21.0	ND	ND	2.0	90.2	ND	1.5	5.0	17.1	ND	ND	1.0	1.8	0.7	ND	8.2	110.5	ND	ND	ND	0.6	ND



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				Inor	ganic	lons	ı		ı				ı				ı	1				Ino	rganics	(Meta	ıls)			-									
	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	NITRATE	NITRITE	PHOSPHATE	SILICATE	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 MCI				4	10	1					6	50	2000	4	5		100								2		100		50				2				
				_																																	
			1						d Wat																		. 1						· . 1			. 1	
l	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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	0.9	ND		0.9	1.9	ND	ND	4.0		49.0	ND	ND	34.0	ND	ND	40.0	1.0	ND	2.0	18.0	ND	3.0	10.0	2.0	ND	ND	1.0		ND	ND		185.0	ND	ND	ND	ND	ND
Feb Mar	0.8	ND ND	30.2 29.5	0.8	1.7	ND ND	ND ND	6.2 7.5	41.3 39.8	36.0 24.0	ND ND	ND ND	32.0	ND ND	ND ND	26.0 31.0	ND 0.7	ND ND	3.0	ND ND	ND ND	2.0	6.0 7.0	1.0	ND ND	ND ND	1.0 0.8	1.7	ND 0.8	ND ND	14.0	129.0 144.0		ND ND	ND ND	ND ND	ND ND
Apr	0.9	ND	19.4	0.8	1.6	ND	ND	5.4	35.2	30.0	ND	ND	31.0	ND	ND	31.0	ND	ND	1.3	ND	ND	1.3	5.0	1.2	ND	ND	0.8		0.8	ND	14.0	111.2	ND	ND	ND	ND	ND
May	0.8	ND	21.4	0.8	1.4	ND	ND	1.7	38.3	51.1	ND	ND	31.0	ND	ND	37.0	1.4	ND	2.0	ND	ND	2.3	7.0	1.4	ND	0.7	0.7		0.9	ND	-	159.1	ND	ND	ND	0.8	0.6
Jun	0.8	ND	19.7	0.9	1.4	ND	ND	5.8	46.7	34.3	ND	ND	39.8	ND	ND	35.0	2.7	ND	1.9	ND	ND	2.5	6.0	1.9	ND	ND	1.0	1.5	0.6	ND		156.0		ND	ND	1.5	0.8
Jul	0.9	ND	22.2	0.9	0.7	ND	ND	5.4	44.7	23.7	ND	0.8	33.0	ND	ND	35.0	1.3	ND	2.1	ND	ND	1.6	7.0	2.6	ND	0.9	6.4		ND	ND		138.0		ND	ND	0.6	0.6
Aug	0.8	ND	15.9	0.8	0.7	ND	ND	5.4	61.8	38.4	ND	0.6	53.5	ND	ND	36.0	1.2	ND	3.1	ND	ND		5.0	2.1	ND	2.0	1.1		0.8	ND		250.0	ND	ND	ND	1.0	0.8
Sep	0.8	ND	28.5	0.6	0.5	ND	ND	3.8	56.9	50.7	ND	0.5	42.9	ND	ND	37.0	2.0	ND	2.5	ND	ND	3.2	12.0	1.9	ND	1.9	1.1		ND	ND	-	214.0	ND	ND	ND	1.7	ND
Oct	0.8	ND	28.5	0.9	0.9	ND	ND	1.4	50.6	52.1	ND	0.6	43.0	ND	ND	43.0	1.3	ND	3.7	ND	ND	3.2	11.0	1.5	ND	2.5	1.0		2.1	ND		252.0	ND	ND	ND	1.1	1.0
Nov	0.8	ND	33.3	0.9	0.5	ND	ND	1.3	72.7	36.2	ND	0.5	41.6	ND	ND	54.0	0.8	ND	3.8	ND	ND	0.8	14.0	1.1		2.3	1.2		2.3	ND		228.0	ND	ND	ND	0.7	1.7
Dec	0.9	ND	35.6	0.9	1.2	ND	ND	1.8	68.6	36.4	ND	0.6	35.4	ND	ND	56.0	1.6	ND	5.3	ND	ND	2.4	13.0	0.7	ND	2.7	1.1		2.2	ND		296.0	ND	ND	ND	1.3	1.7
Avg	0.8	ND	25.8	0.8	1.1	ND	ND	4.1	50.6	38.5	ND	ND	37.3	ND	ND	38.4	1.2	ND	2.8	ND	ND	2.2	8.6	1.6	ND	1.1	1.4	1.6	0.9	ND	10.7	188.5	ND	ND	ND	0.7	0.6
Max	0.9	ND	35.6	0.9	1.9	ND	ND	7.5	72.7	52.1	ND	8.0	53.5	ND	ND	56.0	2.7	ND	5.3	18.0	ND	3.2	14.0	2.6	ND	2.7	6.4	1.7	2.3	ND	14.0	296.0	ND	ND	ND	1.7	1.7
Min	0.8	ND	15.9	0.6	0.5	ND	ND	1.3	35.2	23.7	ND	0.5	30.0	ND	ND	26.0	0.7	ND	1.3	ND	ND	0.8	5.0	0.7	ND	ND	0.7	1.5	ND	ND	7.4	111.2	ND	ND	ND	ND	ND
Jan	McM 0.8	illan \	Water	Trea	tmen	t Plan	nt Fin	ished	l Wate	78.0	ND	ND	35.0	ND	ND	43.0	2.6	ND	5.0	54.0	ND	3.0	10.0	2.0	ND	ND	2.0		ND	ND		188.0	ND	ND	ND	ND	4.0
Feb	0.6	ND	29.9	0.8	1.9	ND	ND	6.4	38.4	53.0	ND	ND	33.0	ND	ND	26.0	1.0	ND	6.0	12.0	ND	3.0	6.0	ND	ND	ND	1.0		ND	ND		155.0	ND	ND	ND	ND	1.0
Mar	1.2	ND	35.7	0.8	1.3	ND	ND	4.6	40.2	26.0	ND	ND	30.0	ND	ND	32.0	0.6	ND	4.0	ND	ND	3.0	8.0	0.6	ND	ND	0.8	1.8	0.7	ND	19.0	149.0		ND	ND	ND	ND
Apr	0.9	ND	18.9	0.7	1.4	ND	ND	6.4		48.0	ND	ND	30.0	ND	ND	29.0	0.6	ND	3.5	12.9	ND	1.6	5.0	0.8	ND	ND	1.3		1.0	ND		102.5	ND	ND	ND	ND	2.6
May	1.1	ND	20.5	0.8	1.4	ND	ND	1.8	37.2	46.7	ND	ND	35.0	ND	ND	36.0	1.5	ND	7.8	ND	ND	2.2	7.0	ND	ND	0.6	0.9		0.8	ND		153.7	ND	ND	ND	0.8	1.6
Jun	0.8	ND	19.5	0.8	1.2	ND	ND	5.5	48.9	48.0	ND	ND	37.3	ND	ND	33.0	0.9	ND	10.0	ND	ND	2.8	6.0	4.0	ND	ND	1.7	3.4	0.5	ND	9.5	163.0	ND	ND	ND	0.6	1.1
Jul	0.9	ND	21.8	0.8	0.8	ND	ND	5.5	46.8	30.0	ND	0.9	39.4	ND	ND	33.0	1.7	ND	11.1	ND	ND	1.4	7.0	2.0	ND	ND	7.1	-	ND	ND	1	148.0	ND	ND	ND	1.1	2.6
Aug	0.8	ND	24.7	0.8	0.6	ND	ND	5.5	82.0	49.3	ND	0.6	54.0	ND	ND	37.0	0.8	ND	11.0	ND	ND		8.0	1.9	ND	1.7	1.1		0.8	ND		239.0	ND	ND	ND	0.8	2.5
Sep	0.9	ND	28.4	0.9	0.4	ND	ND	4.3	63.8	56.9	ND	0.6	46.7	ND	ND	36.0	2.1	ND	9.7	ND	ND	3.4	11.0	1.7	ND	1.9	1.1	-	8.0	ND	-	229.0	ND	ND	ND	1.3	1.8
Oct	0.7	ND	25.8	0.8	0.7	ND	ND	1.3	50.7	49.0	ND	0.7	39.8	ND	ND	40.0	0.8	ND	10.5	ND	ND	1.9	13.0	1.0	ND	1.7	1.1		ND	ND	-	204.0	ND	ND	ND	1.2	3.2
Nov	0.8	ND	35.8	0.8	0.5	ND	ND	1.3	74.0	52.0	ND	0.7	43.0	ND	ND	52.0	0.5	ND	12.5	ND	ND	ND	14.0	0.7		2.6	1.0		3.1	ND	-	270.0	ND	ND	ND	0.6	2.8
Dec	0.9	ND	35.0	1.0	1.0	ND	ND	1.9	64.7	35.0	ND	0.6	39.0	ND	ND	54.0	0.8	ND	8.1	11.0	ND	2.3	12.0	8.0	ND	2.5	1.3		1.7	ND		243.0	ND	ND	ND	0.6	1.9
Avg	0.9	ND	26.9	0.8	1.1	ND	ND	4.2	53.1	47.7	ND	ND	38.5	ND	ND	37.6	1.2	ND	8.3	ND	ND	2.1	8.9	1.3	ND	0.9	1.7	2.6	8.0	ND	14.3	187.0	ND	ND	ND	0.6	2.0
Max	1.2	ND	35.8	1.0	2.0	ND	ND	6.4	82.0	78.0	ND	0.9	54.0	ND	ND	54.0	2.6	ND	12.5	54.0	ND	3.4	14.0	4.0	ND	2.6	7.1	3.4	3.1	ND	19.0	270.0	ND	ND	ND	1.3	4.0
Min	0.6	ND	18.9	0.7	0.4	ND	ND	1.3	37.2	26.0	ND	ND	30.0	ND	ND	26.0	0.5	ND	3.5	ND	ND	ND	5.0	ND	ND	ND	8.0	1.8	ND	ND	9.5	102.5	ND	ND	ND	ND	ND



			Mi	scellar	neous	Physi	cal Pa	ramete	ers			М	croorga	nisms		Haload	cetic A	Acids (HAAs)	Trih	alom	ethane	s (THI	Ms)						V	olatile	Orga	nic Co	mpou	unds (\	VOCs')					
																									-,																		
	Нф	ALKALINITY	ANIONIC SURFACTANTS	CONDUCTIVITY	TEMPERATURE	TOTAL CHLORINE	TOTAL HARDNESS	TOTAL ORG. CARBON	TOTAL DISSOLVED SOLIDS	TOTAL SUSPENDED SOLIDS	TURBIDITY*	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	1,2-DICHLOROBENZENE	DICHLORODIFLUOROMETHANE
EPA MCI	*										0.5				1	l	l	l						l.	100	5			l	l	<u> </u>		5	100	l						75	600	-
	Dale	carli	a Wat	er Tr	eatm	ent P	lant F	Finish	ned W																										-								
		ppm	ppm	uS/cm	F	ppm	ppm	ppm	ppm		NTU		+ Org/n		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	-	ppb	ppb	ppb	ppb				ppb	ppb			ppb
	8.3	87	ND	388	39	3.68	139	1.8	226		0.07		0 0	< 1	ND	7.1	ND	ND	8.0	15.1	7.1	5.3	1.5	ND	13.9	ND	ND	ND	-	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND
	8.4	70	ND	333	44	3.68	90	1.5	202		0.07		0	< 1			-				13.1	5.7	0.9		19.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				ND				ND
	8.4	68	ND	319	47	3.47	106	1.6	144	1 1 -	0.07		0 0	< 1							10.0	6.6	1.9	ND	18.5	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	_	ND		ND	ND	_		ND
	8.4 8.0	72 87	ND ND	271 330	55 68	3.68	99 109	1.7	160 230		0.07 0.08		0 0	<1	ND	12.4	ND	4.7	13.1	30.2	18.2 23.4	5.7 10.7	0.8 2.5		24.7 36.6	ND ND	ND ND	ND ND	-	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND		ND ND		ND ND	ND ND			ND ND
	7.8	75	ND	302	73	3.59	112		201		0.08		0 0	<1	ND	14.0	ND	ND	13.0	27.0	27.1	8.1	1.3		36.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				ND				ND
	7.7	77	ND	339	80	3.66	117	2.0	177		0.08		0 0	<1	ND	18.0		2.4	21.0	41.4	35.3	10.4	1.9	ND	47.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND
	7.7	72	ND	324	80	3.62	116		215		0.07		0 0	<1	ND	17.0		2.5	16.0	35.5	30.4		2.7		45.6	ND	ND	ND	ND	ND		ND	ND	ND	ND				ND				ND
	7.7	90	ND	365	75	3.67	140	2.1	245		0.07		0 0	<1	ND	14.3	ND	ND	18.7	33.0	33.6	11.5	2.1	ND	47.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND	ND		ND
	7.8	103	ND	419	63	3.59	146	2.2	275		0.07		0 0	<1	1.1	12.0	ND	ND	14.0		25.1	9.3	1.3		35.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				ND				ND
	7.9	121	ND	468	55	3.72	189	2.4	208		0.07		0 0	< 1	1.1	14.0	ND	7.4	18.0	40.5	25.2	10.6	1.4	ND	37.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND
	7.7	124	ND	483	50	3.66	193	2.0	348		0.07		0 0	< 1		_	_	_			15.6	9.2	2.1		26.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND
Avg	8.0	87	ND	362	61	3.6	130	1.9	219	2 (0.07	0	0 0	< 1	ND	13.6	ND	2.1	15.2	31.2	22.0	8.8	1.7	ND	32.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8.4	124	ND	483	80	3.7	193	2.4	348	8 0	80.0	0	0 4	< 1	1.1	18.0	ND	7.4	21.0	41.4	35.3	12.5	2.7	ND	47.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Min	7.7	68	ND	271	39	3.5	90	1.5	144	0 0	0.07	0	0 0	< 1	ND	7.1	ND	ND	8.0	15.1	7.1	5.3	8.0	ND	13.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
r	ИсМ	illan	Wate	er Tre	atme	nt Pl	ant Fi	inish	ed Wa	ater																																	
Jan	8.4	87	ND	381	35	3.67	147	1.4	260	0 0	0.06	0	0 0	< 1	1.1	10.0	ND	2.3	14.0	27.4	11.0	6.7	2.1	ND	19.8	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Feb	8.4	62	ND	320	42	3.43	91	1.7	161	0 0	0.07	0	0 0	< 1		-	-	-	-	-	18.2	7.1	1.3	ND	26.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar	8.4	63	ND	338	46	3.48	111	1.5	151	4 (0.06	0	0 0	< 1		-	-	-	-	-	10.0	6.8	2.4	ND	19.2	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr	8.4	56	ND	259	57	3.52	95	1.7	169	2 (0.07	0	0 0	< 1	ND	13.5	ND	5.3	14.9	33.7	15.0	4.8	0.7	ND	20.5	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May	8.1	82	ND	321	70	3.7	111	1.7	207	2 (0.10	0) 2	< 1		-	_	-			30.7	12.6	2.88	ND	46.2	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jun	7.9	64	ND	290	77	3.6	107	1.9	203	6 0	0.09	0) 2	< 1	ND	13.0	ND	ND	10.0	24.0	36.8	10.0	1.6	ND	48.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jul	7.9	69	ND	319	82	3.76	110	2.1	174	6 0	0.09	0	3	< 1	ND	26.0	ND	4.1	22.0	52.1	50.8	12.4	2.2	ND	65.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aug	7.9	73	ND	322	82	3.79	122	2.0	244	8 0	80.0	0) 2	7	ND	20.0	ND	3.3	16.0	39.3	35.5	14.6	3.7	ND	53.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sep	7.9	79	ND	347	76	3.76	138	2.2	183	0 0	0.09	0	0 0	< 1	ND	24.6	ND	3.6	22.9	51.1	52.2	13.7	2.3	ND	68.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	7.9	89	ND	384	63	3.54	145	2.2	265		80.0		0	< 1	1.1	16.0	ND	ND	17.0	34.1	35.8	10.1	1.3	ND	47.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND		ND	ND			ND
	7.8	113	ND	460	54	3.7	145	2.3	257	+-+	0.07		0 0	< 1	1.2	15.0	ND	6.2	22.0	44.4	26.5	10.5	1.6		38.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				ND	ND			ND
	7.9	107	ND	463	49	3.71	184	2.1	327		0.06		0 0	<1		45.					23.0	10.9	1.8		35.7	ND	ND	ND	ND	ND		ND	ND	ND	ND				ND	_	_		ND
	8.1	79	ND	350	61	3.6	126		217		80.0		0 1	<1	ND	17.3	ND	4.1	17.4	38.3	28.8	10.0	2.0		40.8	ND	ND	ND	ND	ND		ND	ND	ND	ND				ND			_	ND
	7.8	113	ND	463 259	82	3.8	184 91	2.3	327 151		0.10		0 3	7	1.2 ND	26.0	ND ND	6.2 ND	22.9 10.0	52.1	52.2	14.6	3.7 0.7	ND ND	68.2 19.2	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
		56	ND					1.4		0 C	0.06			<1	ND	10.0		ot Dete		24.U	10.0	4.8				•		ND fter filte		ΝD	ΝD	ΝD	ΝÜ				sis requ		מט	מא	אט	אט	מא

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

ND = Not Detected

Turbidity* = Water turbidity after filters

"--" = No Analysis required



															Vo	olatile	Orgai	nic Co	mpou	nds																	Sy	ntheti	ic Org	janic (Comp	ounds	(SOC	s)		
	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	NAPHTHALENE	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	ALACHLOR	ALDICARB	ALDICARB SULFONE	ALDICARB SULFOXIDE	ALDRIN	AROCHLOR 1016	AROCHLOR 1221	AROCHLOR 1232	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260
EPA M	CL*	5	100	70	7			5				700				5			100			5	1000		70	200	5	5					10,000	2	2	3	2	4								
	Dali		- \A'-				DI	F'	.!	-1 1A/-																																				
	ppb	ppb	ppb	ppb	reati	ment	Plar	nt Fir	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	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		 Phn		ND			երո	երո		 	Pho
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		_										
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												_
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	-		-				_
May	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					ı							
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-			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	ND	ND	ND	ND	ND		ND	ND	ND								
Sep	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	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	ND	ND
	McN	lillar	Wat	er Tr	eatm	ent l	Plant	Fini	shed	Wat	er																																			
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							
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			-		-	-	-					
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												
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							
May	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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 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	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND ND			ND ND
IVIIII	טאן	טאן	טאן	טא	טאן	טא	טא	טאן	טאן	ן אט	טא	טאן	טא ן	שא	ND	ND	טא	ND	ND	ND	טא	טא	טאן	טא	טא	ND	ND	ND	ND	ND	ND	ND	ND	ND	מט	מט	ND	מט	ND	טא	ND	ND	ND	ND	ND	מא

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ND = Not Detected

"--" = No Analysis required



							1	ı	ı	ı	1		ı	1 1		Syn	thetic	Orga	nic C	ompo	unds			1	ı			1			ı						ı	/liscel	laneous	s		Radio	nuclides	5
	ATRAZINE	BENZO(a)PYRENE	BUTACHLOR	CARBARYL	CARBOFURAN	alpha-CHLORDANE	gamma-CHLORDANE	CHLORDANE	2,4-D	DALAPON	DICAMBA	DIELDRIN	di-(2-ETHYLHEXYL)ADIPATE	di-(2-ЕТНҮLНЕХҮL)РНТНАLATE	DINOSEB	DIQUAT	ENDOTHALL	ENDRIN	GLYPHOSATE	HEPTACHLOR	HEPTACHLOR EPOXIDE	HEXACHLOROBENZENE	HEXACHLOROCYCLOPENTADIENE	3-HYDROXYCARBOFURAN	LINDANE	МЕТНОМҮL	METHOXYCHLOR	METOLACHLOR	METRIBUZIN	OXAMYL	PENTACHLOROPHENOL	PICLORAM	PROPACHLOR	SIMAZINE	TOXAPHENE	2,4,5-TP (Silvex)	DIBROMOCHLOROPROPANE (DBCP)	1,2-DIBROMOETHANE (EDB)	CYANIDE	DIOXIN	GROSS ALPHA	GROSS BETA	STRONTIUM-90	TRITIUM (H3)
EPA MCL		0.2			40				70				400	6	7	20	100	2	700	0.4	0.2	1	50.0	·	0.2		40			200	1	500		4	3	50	200	50	0.2	30	15	50	8	20,000
										d Wat																												l l		T ==#	pCi/L	pCi/L	pCi/L	pCi/L
Jan	ppb ND	ppb ND	ppb ND	ppb	ppb	ppb ND	ppb ND	ppb 	ppb ND	ppb ND	ppb ND	ppb ND	ppb ND	ppb ND	ppb ND	ppb ND	ppb	ppb ND	ppb ND	ppb ND	ppb ND	ppb ND	ppb ND	ppb 	ppb ND	ppb 	ppb ND	ppb ND	ppb ND	ppb 	ppb ND	ppb ND	ppb ND	ppb ND	ppb	ppb ND	ppt 	ppt	ppm	pg/l	pCI/L	poi/L	pCi/L	pCI/L
Jan Feb	ייי	מאו				ייי	ייי	-	מא	מא	ייי	יי.	ND		יי-	ייי		מאו	ייי	ייי	ייי	ייי	מאו	Ι-	מאו		מא	ייי	שאו		מאו	ייי	ייי	מא	_	ייי		-			-			-
Mar				_	_	_		<u> </u>			<u> </u>							_			_	_		-		_	_	_				_		_	_						ND	ND	ND	
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	_		_	+-				_
May				_		-		ND						-	-	-					-	-		_	_	_	_			_	_	_		_	ND	-	ND	ND	0.05	ND		_		-
Jun		-		-	-	-				-		_		_	-			-			-			_	-	_	_				-	_	_	_	-	-			-		ND	ND	ND	ND
Jul	ND	ND	ND			ND	ND		ND	ND	ND	ND	ND	3.5	ND	ND		ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	-	ND	ND	ND	ND	-	ND	-		-		-	-		-
Aug				ND	ND	-				-					-		ND	-			-	-	-	ND	_	ND	-	-		ND	_	_	_	-	-	-	-		-	ND	-	-		-
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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			-			-		-
Nov										-											-			-	-		-				-			-								-		
Dec																									-		-				-	-		-							ND	ND	ND	ND
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	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	ND	ND
Max	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	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	Iillan	Wate	er Tr	eatm	ent l	Plant	Finis	shed	Wate	er																																	
Jan	ND	ND	ND	-	-	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	-	ND	-	ND	ND	ND	ı	ND	ND	ND	ND	-	ND	ı	-	-	-	-	-	-	-
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*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters.

ND = Not Detected

"--" = No Analysis required