62-302.530 Table: Surface Water Quality Criteria.

The following table contains both numeric and narrative surface water quality criteria to be applied except within zones of mixing. The left-hand column of the Table is a list of constituents for which a surface water criterion exists. The headings for the water quality classifications are found at the top of the Table, and the classification descriptions for the headings are specified in subsection 62-302.400(1), F.A.C. Applicable criteria lie within the Table. The individual criteria should be read in conjunction with other provisions in water quality standards, including Rule 62-302.500, F.A.C. The criteria contained in Rule 62-302.500, F.A.C., also apply to all waters unless alternative or more stringent criteria are specified in Rule 62-302.530, F.A.C. Unless otherwise stated, all criteria express the maximum not to be exceeded at any time except within established mixing zones or in accordance with sitespecific effluent limitations developed pursuant to Rule 62-620.620, F.A.C. In some cases, there are separate or additional limits, which apply independently of the maximum not to be exceeded at any time. For example, the criteria for carcinogens, which are expressed as an annual average (denoted as "annual avg." in the Table), are applied as the maximum allowable annual average concentration at the long-term harmonic mean flow (see subsection 62-302.200(2), F.A.C.). Numeric interpretations of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., shall be expressed as spatial averages and applied over a spatial area consistent with their derivation. In applying the water quality standards, the Department shall take into account the variability occurring in nature and shall recognize the statistical variability inherent in sampling and testing procedures. The Department's assessment methodology, set forth in Chapter 62-303, F.A.C., accounts for such natural and statistical variability when used to assess ambient waters pursuant to sections 305(b) and 303(d) of the Federal Clean Water Act

		Criteria for	r Surface Water	r Quality Classifica	tions		
					lass III-Limited Note 4)		
Parameter	Units	Class I	Class II	Predominantly Fresh Waters	Predominantly Marine Waters		Class V
(1) Alkalinity	Milligrams/L as CaCO ₃	Shall not be depressed below 20		Shall not be depressed below 20		≤ 600	
(2) Aluminum	Milligrams/L		≤ 1.5		≤ 1.5		
(3) Ammonia (un-ionized)	Milligrams/L as NH ₃	≤ 0.02		≤ 0.02			
(4) Antimony	Micrograms/L	<u>≤</u> 14.0	≤ 4,300	≤ 4,300	≤ 4,300		
(5)(a) Arsenic (total)	Micrograms/L	≤ 10	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50
(5)(b) Arsenic (trivalent)	Micrograms/L measured as total recoverable Arsenic		≤ 36		≤ 36		

(() Da stari 1 1	Manuals are as as	MDNL	MDNL ME	MDNI ac ME	MDNI as MC	
(6) Bacteriological	Number per		MPN or MF	MPN or MF	MPN or MF	
Quality (Fecal7	100 ml (Most	counts shall	counts shall	counts shall	counts shall	
Coliform Bacteria)	Probable		not exceed a	not exceed a	not exceed a	
	Number (MPN)	-	median value	-	monthly	
	or Membrane	average of	of 14 with	average of	average of	
	Filter (MF))	200, nor	not more	200, nor	200, nor	
		exceed 400	than 10% of	exceed 400 in	exceed 400 in	
		in 10% of	the samples	10% of the	10% of the	
		the samples,	_	samples, nor	samples, nor	
		nor exceed	` /	exceed 800 on	exceed 800 on	
		800 on any	31 (for MF),	any one day.	any one day.	
		one day.	nor exceed	Monthly	Monthly	
		Monthly	800 on any	averages shall	averages shall	
		averages	one day. To	be expressed	be expressed	
		shall be	determine	as geometric	as geometric	
		expressed as		means based	means based	
		geometric		on a minimum	on a minimum	
		means	samples	of 10 samples	of 10 samples	
		based on a	exceeding		taken over a 30	
		minimum of		day period.	day period.	
		5 samples	when there			
		taken over a				
		30 day	MPN and			
		period.	MF samples			
			for a			
			waterbody,			
			the percent			
			shall be			
			calculated as			
			100*(n _{mpn} +n			
			_{mf})/N, where			
			n _{mpn} is the			
			number of			
			MPN			
			samples			
			greater than			
			43 , n_{mf} is the			
			number of			
			MF samples			
			greater than			
			31, and N is			
			the total			
			number of			
			MPN and			
			MF samples.			
(7) Barium	Milligrams/L	<u>≤</u> 1				
(8) Benzene	Micrograms/L	≤1.18	≤ 71.28	≤ 71.28 annual	≤ 71.28 annual	
				avg.	avg.	

(9) Beryllium	Micrograms/L	≤ 0.0077	≤ 0.13	≤ 0.13 annual	≤ 0.13 annual	≤ 100 in	
		annual avg.	annual avg.	avg.	avg.	waters with a	
						hardness in	
						mg/L of	
						CaCO ₃ of	
						less than 250	
						and shall not	
						exceed 500	
						in harder	
						waters	
(10)(a) Biological	Per cent	The Index for		The Index for			
Health (Shannon-	reduction of	benthic		benthic			
Weaver Diversity	Shannon-Weaver	macroinverte		macroinvertebrat			
Index using Hester-	Diversity Index	brates shall		es shall not be			
Dendy type samplers)		not be		reduced to less			
		reduced to		than 75% of			
		less than 75%		established			
		of		background			
		background		levels as			
		levels as		measured using			
		measured		organisms			
		using		retained by a U.			
		organisms		S. Standard No.			
		retained by a		30 sieve and			
		U. S.		collected and			
		Standard No.		composited from			
		30 sieve and		a minimum of			
		collected and		three Hester-			
		composited		Dendy type			
		from a		artificial			
		minimum of		substrate			
		three Hester-		samplers of 0.10			
		Dendy type		to 0.15 m ² area			
		artificial		each, incubated			
		substrate		for a period of			
		samplers of		four weeks.			
		0.10 to 0.15					
		m ² area each,					
		incubated for					
		a period of					
		four weeks.					

(10) (b) Biological	Per cent	In lakes, the	The Index	In lakes, the	The Index for		
Health (Shannon-	reduction of		for benthic	Index for	benthic		
Weaver Diversity	Shannon-			benthic	macroinvertebr		
Index using Ekman or	Weaver	macroinvert		macroinvertebr			
Ponar type samplers)	Diversity Index			ates shall not	be reduced to		
r char type samplets)	Biversity inden		reduced to	be reduced to	less than 75%		
			less than	less than 75%	of established		
			75% of	of established	background		
			established	background	levels as meas-		
		established	background	levels as meas-	ured using		
		background	levels as	ured using	organisms re-		
		levels as	measured	organisms re-	tained by a		
		measured	using	tained by a	U.S. Standard		
			organisms	U.S. Standard	No. 30 sieve		
			retained by a	No. 30 sieve	and collected		
		-	U.S. Stan-	and collected	and compos-		
			dard No. 30	and com-	ited from a		
			sieve and	posited from a	minimum of		
			collected and		three natural		
			composited	three natural	substrate		
			from a mini-	substrate	samples, taken		
		1	mum of three	samples, taken	with Ponar		
			natural	with Ekman or	type samplers		
		minimum of		Ponar type	with minimum		
		three natural		samplers with	sampling area		
			taken with	minimum sam- pling area of	of 225 cm ² .		
		-	Ponar type samplers				
			with mini-	225 cm ² .			
			mum sam-				
		- 1	pling area of				
		mum sam-	225 cm ² .				
		pling area					
		of 225 cm 2 .					
(11) DOD			. 1	1. 1.	1 . 1	1. 1	1
(11) BOD					ues which would		
(Biochemical Oxygen		to b	-		tablished for eacl		no case,
Demand)			shall it be	e great enough to	produce nuisano		1
(12) Boron	Milligrams/L					<u>≤</u> 0.75	
(13) Bromates	Milligrams/L		<u>≤</u> 100		<u>≤</u> 100		
(14) Bromine (free	Milligrams/L		≤ 0.1		≤ 0.1		
molecular)							
(15) Cadmium	Micrograms/L	Cd ≤	≤ 8.8	Cd <	≤ 8.8		
	See Notes (1)	e ^{(0.7409[lnH]} -	_ = 5.5	(0.7409[lnH]-4.719);	_ = 5.0		
	and (3).	4.719).		,			
(16) Carbon		,	1 < 1.12	< 1.42 cmm	< 1.42 cmmus1		
(16) Carbon	Micrograms/L	\leq 0.25 annua		\leq 4.42 annual	≤ 4.42 annual		
tetrachloride		avg.;	annual avg.	avg.	avg.		
		3.0 max					

increased more than 10% above normal background. Normal daily and seasonal fluctuations shall be maintained. (18) Chlorine (total residual) (19)(a) Chromium (trivalent) (19)(b) Chromium (terograms/L Chromium (teroverable Chromium See Notes (1) and (3). (19)(b) Chromium (hexavalent) (10)(c) Chromium (hexavalent) (10)(c) Chromium (total recoverable Chromium (see Antella) (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (11)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (12)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (10)(c) Chromium (total recoverable Chromium (see Notes (1) and (3). (11)(c) Chromium (see Notes (1) see Notes (1) and (3). (12)(c) Chromium (see Notes (1) see Notes (1) se	(17) (11 : 1	N 4:11: /T	. 250	NT 4		NT / 1		т
Marine waters, normal background. Normal daily and seasonal fluctuations shall be maintained. Milligrams/L measured as total recoverable Chromium (hexavalent) Micrograms/L See Note (3)	(17) Chlorides	Milligrams/L	≤ 250	Not		Not increased		In
Intercace of the companies of the comp								-
normal background, Normal daily and seasonal fluctuations shall be maintained. Normal daily and seasonal fluctuations sh								
See Note (1) and (3). See Note (3) See definition in subsection 62-302.200(5), F.A.C. and also see below. "Scalable and seasonal fluctuations shall be waintained." See Note (3) See Note (4) See Note (4) See Note (5) See Note (6) See Note (6)								
Normal daily and seasonal fluctuations shall be maintained.						-		
daily and seasonal fluctuations shall be maintained. Shall be ma								
Seasonal fluctuations shall be maintained. Seasonal fluctuatio								
Company Comp				-				~
Shall be maintained.						maintained.		
Milligrams/L South				fluctuations				and seasonal
Cr (III) Service (10tal residual) Cr (III) Service (10tal recoverable Chromium (19)(b) Chromium (19)(b) Chromium (19)(b) Chromium (19)(c) Chromium (19)				shall be				fluctuations
(18) Chlorine (total residual) (19)(a) Chromium (trivalent) Micrograms/L measured as total recoverable Chromium See Notes (1) and (3). (19)(b) Chromium (hexavalent) See Note (3) (20) Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations Micrograms/L chromium sides (10) See (0.819[int]+0.6848) (11) See (0.819[int]+0.68				maintained.				shall be main-
residual) (19)(a) Chromium (trivalent) Micrograms/L measured as total recoverable Chromium (see Notes (1) and (3). (19)(b) Chromium (hexavalent) See Note (3) (20) Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations Micrograms/L See Note (3) Cr (III) ≤ e ^{0.819[InII]+0.6848)} Fresh waters, ≤ e ^{0.819[InII]+0.6848)} In predominantly fresh waters, ≤ 11. In predominantly fresh waters, ≤ 50								tained.
(19)(a) Chromium (trivalent) Micrograms/L measured as total recoverable Chromium See Notes (1) and (3). (19)(b) Chromium (hexavalent) Micrograms/L See Note (3) Cr (III) ≤ e ^(0.819[InH]+0.6848) See Note (3) ≤ 11 ≤ 50 ≤ 11 In predominantly fresh waters, ≤ e ^(0.819[InH]+0.6848) In predominantly fresh waters, ≤ e ^(0.819[InH]+0.6848) In predominantly fresh waters, ≤ 11. In predominantly fresh waters, ≤ 50 (20) Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations	(18) Chlorine (total	Milligrams/L	≤ 0.01	\leq 0.01	<u>≤</u> 0.01	≤ 0.01		
trivalent) measured as total recoverable Chromium See Notes (1) and (3). (19)(b) Chromium (hexavalent) (20) Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations measured as total recoverable (0.819[inH]+0.6848) e(0.819[inH]+0.6848) e(0	residual)							
total recoverable Chromium See Notes (1) and (3). (19)(b) Chromium (hexavalent) Micrograms/L See Note (3) See N	(19)(a) Chromium	Micrograms/L	Cr (III) ≤		Cr (III) ≤		Cr (III) ≤	In
recoverable Chromium See Notes (1) and (3). $ (19) (b) \text{ Chromium (hexavalent)} $ Micrograms/L See Note (3) $ (20) \text{ Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations } $	(trivalent)	measured as	e ^(0.819[lnH]+0.6848)		e ^(0.819[lnH]+0.6848)		e ^(0.819[lnH]+0.6848)	predominantly
		total						fresh waters, ≤
		recoverable						e ^(0.819[lnH]+0.6848)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Chromium						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		See Notes (1)						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								
(hexavalent) See Note (3) predominantly fresh waters, ≤ 11. In predominantly marine waters, ≤ 50 (20) Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations	(19)(b) Chromium		< 11	< 50	< 11	< 50	< 11	In
fresh waters, \leq 11. In predominantly marine waters, \leq 50 (20) Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations	` ' ' '	_	_	_	_	_	_	predominantly
11. In predominantly marine waters, ≤ 50 (20) Chronic Toxicity (see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations		. ,						
marine waters, < 50 (20) Chronic Toxicity (see definition in subsection 62- 302.200(5), F.A.C. and also see below, "Substances in concentrations								
marine waters, < 50 (20) Chronic Toxicity (see definition in subsection 62- 302.200(5), F.A.C. and also see below, "Substances in concentrations								predominantly
(20) Chronic Toxicity (see definition in subsection 62- 302.200(5), F.A.C. and also see below, "Substances in concentrations								
(20) Chronic Toxicity (see definition in subsection 62- 302.200(5), F.A.C. and also see below, "Substances in concentrations								
(see definition in subsection 62-302.200(5), F.A.C. and also see below, "Substances in concentrations	(20) Chronic Toxicity							_
subsection 62- 302.200(5), F.A.C. and also see below, "Substances in concentrations	` '							
302.200(5), F.A.C. and also see below, "Substances in concentrations	`							
and also see below, "Substances in concentrations								
"Substances in concentrations								
concentrations								
(Which")	which")							

(21) Color, etc. (see	Color, odor,					Only such	
also Minimum	and taste					amounts as	
Criteria, Odor,	producing					will not render	
Phenols, etc.)	substances and					the waters	
	other					unsuitable for	
	deleterious					agricultural	
	substances,					irrigation,	
	including other					livestock	
	chemical					watering,	
	compounds					industrial	
	attributable to					cooling,	
	domestic					industrial	
	wastes,					process water	
	industrial					supply	
	wastes, and					purposes, or	
	other wastes					fish survival.	
(22) Conductance,	Micromhos/cm	Shall not be		Shall not be		Shall not be	Shall not
Specific		increased		increased more		increased more	exceed 4,000
		more than		than 50%		than 50%	
		50% above		above		above	
		background		background or		background or	
		or to 1275,		to 1275,		to 1275,	
		whichever is		whichever is		whichever is	
		greater.		greater.		greater.	
(23) Copper	Micrograms/L	Cu≤	≤ 3.7	Cu≤	≤ 3.7	≤ 500	≤ 500
	See Notes (1)	e ^{(0.8545[lnH]-}		e ^(0.8545[lnH]-1.702)			
	and (3).	1.702)					
(24) Cyanide	Micrograms/L	≤ 5.2	<u>≤</u> 1.0	< 5.2	<u>≤</u> 1.0	≤ 5.0	≤ 5.0
(25) Definitions (see							
Section 62-302.200,							
F.A.C.)							
(26) Detergents	Milligrams/L	<u>≤</u> 0.5	<u>≤</u> 0.5	<u>≤</u> 0.5	<u>≤</u> 0.5	<u>≤</u> 0.5	<u>≤</u> 0.5
(27) 1,1-	Micrograms/L	\leq 0.057	\leq 3.2 annual	\leq 3.2 annual	\leq 3.2 annual		
Dichloroethylene (1,1-		annual avg.;	avg.	avg.	avg.		
dichloroethene)		\leq 7.0 max					
(28) Dichloromethane	Micrograms/L	\leq 4.65 annual	I = '	\leq 1,580 annual	\leq 1,580 annual		
(methylene chloride)		avg.	annual avg.	avg.	avg.		
(29) 2,4-	Micrograms/L	\leq 0.11 annual	\leq 9.1 annual	\leq 9.1 annual	\leq 9.1 annual		
Dinitrotoluene		avg.	avg.	avg.	avg.		

(30) Dissolved Oxygen	Milligrams/L	See Rule 62-3	02.533, F.A.	C.		Shall not average less than 4.0 in a 24-hour period and shall never be less than 3.0.	Shall not be less than 0.3, fifty percent of the time on an annual basis for flows greater than or equal to 250 cubic feet per second and shall never be less than 0.1. Normal daily and seasonal fluctuations above these levels shall be maintained.
(31) Dissolved Solids	Milligrams/L	≤ 500 as a monthly avg.; $\leq 1,000$ max					
	Milligrams/L	<u>≤</u> 1.5	≤ 1.5	≤ 10.0	≤ 5.0	≤ 10.0	<u>≤</u> 10.0
(33) "Free Froms" (see							
Minimum Criteria in							
Section 62-302.500,							
F.A.C.)							
(34) "General							
Criteria" (see Section 62-302.500, F.A.C.							
and individual criteria)							
	Micrograms/L	< 80					
(Total	Titlorograms/L	- 00					
trihalomethanes) (total							
of bromoform,							
chlorodibromo-							
methane,							
dichlorobromome-							
thane, and							
chloroform).							
Individual halomethanes shall not							
exceed (b)1. to (b)5.							
below.							
	Micrograms/L	≤ 4.3 annual	< 360	≤ 360 annual	≤ 360 annual		
Halomethanes	Titlorograms/L	avg.	annual avg.	avg.	avg.		
(individual):					, 5.		
Bromoform							

(25)(1)2	N.C /T	< 0.411	< 2.4 1	< 241	< 24 1	1	
(35)(b)2.	Micrograms/L				≤ 34 annual		
Halomethanes		avg.	avg.	avg.	avg.		
(individual):							
Chlorodibromo-							
methane							
(35)(b)3.	Micrograms/L	\leq 5.67 annual			\leq 470.8 annual		
Halomethanes		avg.	annual avg.	avg.	avg.		
(individual):							
Chloroform							
(35)(b)4.	Micrograms/L	\leq 5.67 annual			\leq 470.8 annual		
Halomethanes		avg.	annual avg.	avg.	avg.		
(individual):							
Chloromethane							
(methyl chloride)							
(35)(b)5.	Micrograms/L	\leq 0.27 annual	\leq 22 annual	≤ 22 annual	≤ 22 annual		
Halomethanes		avg.	avg.	avg.	avg.		
(individual):							
Dichlorobromomethan							
e							
(36)	Micrograms/L	\leq 0.45 annual	≤ 49.7	\leq 49.7 annual	\leq 49.7 annual		
Hexachlorobutadiene		avg.	annual avg.	avg.	avg.		
(37) Imbalance (see							
Nutrients)							
(38) Iron	Milligrams/L	< 1.0	< 0.3	< 1.0	< 0.3	< 1.0	
(39) Lead	Micrograms/L	Pb <	<u>-</u> ≤ 8.5	Pb <	<u></u>	< 50	< 50
(37) Ecua	See Notes (1)	_		e(1.273 [lnH]			
	and (3).	e(1.273[lnH]		_			
	(-)-	_		4.705);			
		4.705);		1.705),			
		, 50),					
(40) Manganese	Milligrams/L		< 0.1				
(41) Mercury	Micrograms/L	≤0.012	<u>≤</u> 0.025	≤0.012	≤0.025	< 0.2	< 0.2
(42) Minimum Criteria	_		_0.025	_0.012	_0.020	<u> </u>	
(see Section 62-							
302.500, F.A.C.)							
(43) Mixing Zones							
(See Section 62-4.244, F.A.C.)							
(44) Nickel	Mioro amare a /I	Ni≤	< 8.3	Ni: -	< 9 2	< 100	
(44) MICKEI	Micrograms/L See Notes (1)	$ N1 \le e^{(0.846[\ln H] + 0.0584)}$	<u>></u> 0.3	$Ni \le e^{(0.846[\ln H] + 0.0584)}$	≤ 8.3	\sim 100	
		e		e			
(45) NI:	and (3).	< 10 41 4					
(45) Nitrate	Milligrams/L	\leq 10 or that					
	as N	concentration					
		that exceeds					
		the nutrient					
		criteria					
(46) Nuisance Species			concentration	ns which result in	n the dominance	of nuisance spec	ies: none shall
1		be present.					

(47)(a) Nutrients		violatio enrichn	The discharge of nutrients shall continue to be limited as needed to prevent violations of other standards contained in this chapter. Man-induced nutrient enrichment (total nitrogen or total phosphorus) shall be considered degradation in relation to the provisions of Rules 62-302.300, 62-302.700, and 62-4.242, F.A.C.							
(47)(b) Nutrients		In no ca water b	ase shall nutrient be altered so as to tions of aquatic f	cause an imbal	of a body of					
(48) Odor (also see Color, Minimum Criteria, Phenolic Compounds, etc.)	Threshold odor number		Shall not exceed 24 at 60 degrees C as a daily average.				Odor producing substances: only in such amounts as will not unreasonably interfere with use of the water for the designated purpose of this classification.			
(49)(a) Oils and Greases	Milligrams/L	or	Dissolved or emulsified oils and greases shall not exceed 5.0	Dissolved or emulsified oils and greases shall not exceed 5.0	Dissolved or emulsified oils and greases shall not exceed 5.0	Dissolved or emulsified oils and greases shall not exceed 5.0	Dissolved or emulsified oils and greases shall not exceed 10.0			
(49)(b) Oils and Greases		No und	lissolved oil, or v		d as iridescence, fere with the ber	-				
(50) Pesticides and Herbicides										
(50)(a) 2,4,5-TP	Micrograms/L	< 10								
(50)(b) 2-4-D	Micrograms/L	<u>< 100</u>								
(50)(c) Aldrin	Micrograms/L	≤ .00013 annual avg.; 3.0 max	≤ .00014 annual avg.; 1.3 max	≤ .00014 annual avg.; 3.0 max	≤ .00014 annual avg.; 1.3 max					
(50)(d) Beta- hexachlorocyclohexane (b-BHC)	Micrograms/L	≤ 0.014 annual avg.	≤ 0.046 annual avg.	≤ 0.046 annual avg.	≤ 0.046 annual avg.					
(50)(e) Chlordane	Micrograms/L	<pre>< 0.00058 annual avg.; 0.0043 max</pre>	≤ 0.00059 annual avg.; 0.004 max	≤ 0.00059 annual avg.; 0.0043 max	≤ 0.00059 annual avg.; 0.004 max					
(50)(f) DDT	Micrograms/L	≤ 0.00059 annual avg.; 0.001 max	≤ 0.00059 annual avg.; 0.001 max	<pre>< 0.00059 annual avg.; 0.001 max</pre>	<pre>< 0.00059 annual avg.; 0.001 max</pre>					

(50)(g) Demeton	Micrograms/L	≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.1			
(50)(h) Dieldrin	Micrograms/L	< 0.00014	≤ 0.00014	< 0.00014	<u>≤</u> 0.00014			
		annual	annual avg.;	annual avg.;	annual avg.;			
		avg.;	0.0019 max	0.0019 max	0.0019 max			
		0.0019						
		max						
(50)(i) Endosulfan	Micrograms/L	≤ 0.056	≤ 0.0087	<u>≤</u> 0.056	≤ 0.0087			
(50)(j) Endrin	Micrograms/L	≤ 0.0023	<u><</u> 0.0023	≤ 0.0023	≤ 0.0023			
(50)(k) Guthion	Micrograms/L	≤ 0.01	<u>≤</u> 0.01	<u>≤</u> 0.01	<u>≤</u> 0.01			
(50)(l) Heptachlor	Micrograms/L	\leq 0.00021	≤ 0.00021	≤ 0.00021	\leq 0.00021			
		annual	annual avg.;	annual avg.;	annual avg.;			
		avg.;	0.0036 max	0.0038 max	0.0036 max			
		0.0038						
		max						
(50)(m) Lindane (g-	Micrograms/L	See Minimum	See Minimum criteria in	See Minimum criteria in	See Minimum criteria in			
benzene hexachloride)		criteria in	paragraph 62-	paragraph 62-	paragraph 62-			
		paragraph	302.500(1)(d),	302.500(1)(d),	302.500(1)(d),			
		62-	F.A.C.	F.A.C.	F.A.C.			
		302.500(1) (d), F.A.C.						
		(u), F.A.C.						
(50)(n) Malathion	Micrograms/L	≤ 0.1	<u>≤</u> 0.1	<u>≤</u> 0.1	<u>≤</u> 0.1			
(50)(o) Methoxychlor	Micrograms/L	≤ 0.03	<u>≤</u> 0.03	<u>≤</u> 0.03	<u>≤</u> 0.03			
(50)(p) Mirex	Micrograms/L	≤ 0.001	<u>≤</u> 0.001	<u>≤</u> 0.001	<u>≤</u> 0.001			
(50)(q) Parathion	Micrograms/L	<u>≤</u> 0.04	<u>≤</u> 0.04	<u>≤</u> 0.04	<u>≤</u> 0.04			
(50)(r) Toxaphene	Micrograms/L	≤ 0.0002	≤ 0.0002	≤ 0.0002	≤ 0.0002			
(51)(a) pH (Class I	Standard Units	Shall not v	ary more than or	ne unit above or	below natural ba	ckground provid	ed that the pH	
and Class IV Waters)		is not lowe	red to less than	6 units or raised	above 8.5 units.	If natural backgr	ound is less	
		than 6 unit	s, the pH shall n	ot vary below na	tural background	l or vary more th	an one unit	
			-	_	round is higher th		*	
		vary above	natural backgro	ound or vary mor	e than one unit b	elow background	d.	
(51)(b) pH (Class II	Standard Units		•		below natural ba	•		
Waters)					C., or more than			
		below natu	ral background	of open waters a	s defined in parag	graph 62-302.52	0(3)(f), F.A.C.,	
		-	•		than 6.5 units or			
		_		_	all not vary belov	_	-	
		more than one unit above natural background for coastal waters or more than two-tenths						
				-				
		unit above	natural backgrou	und for open wat	ters. If natural ba	ckground is high	er than 8.5	
		unit above units, the p	natural backgro H shall not vary	und for open war above natural ba	ters. If natural ba ackground or var	ckground is high y more than one	unit below	
		unit above units, the p natural bac	natural backgro H shall not vary	und for open wat above natural ba tal waters or mo	ters. If natural ba	ckground is high y more than one	unit below	

(51)(c) pH (Class III Waters)	Standard Units	fresh water than two-to paragraph in predomi raised abov waters or 6 backgroun waters and waters. If 1 backgroun	Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in paragraph 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in paragraph 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 unit in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open									
(51)(d) pH (Class V	Standard Units	Not lower	Not lower than 5.0 nor greater than 9.5 except certain swamp waters which may be as low									
Waters) (52)(a) Phenolic Compounds: Total		Phenolic cor unlisted	Phenolic compounds other than those produced by the natural decay of plant material, listed or unlisted, shall not taint the flesh of edible fish or shellfish or produce objectionable taste or odor in a drinking water supply.									
(52)(b) Total Chlorinated Phenols and Chlorinated Cresols	Micrograms/L	1. The total of all chlorinated phenols, and chlorinated cresols, except as set forth in (c)1. to (c)4. below, shall not exceed 1.0 unless higher values are shown not to be chronically toxic. Such higher values shall be approved in writing by the Secretary. 2. The compounds listed in (c)1. to (c)6. below shall not exceed the limits specified for each compound. 1. The total of the following Phenolic compounds shall not exceed the limits shall not exceed 50: a) Chlorinated phenols; b) Chlorinated cresols; and c) 2,4-										
(52)(c) 1. Phenolic Compound: 2-	Micrograms/L	≤ 120	< 400 See Note (2).	< 400 See Note (2).	< 400 See Note (2).	< 400 See Note (2).	dinitrophenol.					
chlorophenol (52)(c) 2. Phenolic Compound: 2,4- dichlorophenol	Micrograms/L	< 93 See Note (2).	< 790 See Note (2).	< 790 See Note (2).	< 790 See Note (2).	< 790 See Note (2).						
(52)(c) 3. Phenolic Compound: Pentachlorophenol	Micrograms/L	$\leq 30 \text{ max};$ ≤ 7.9 $\leq 30 \text{ max};$ ≤ 0.28 annual avg; $\leq e(1.005[pH]-5.29)$ $\leq (1.005[pH]-5.29)$										
(52)(c) 4. Phenolic Compound: 2,4,6- trichlorophenol	Micrograms/L	≤ 2.1 annual avg.	≤ 6.5 annual avg.	≤ 6.5 annual avg.	≤ 6.5 annual avg.	≤ 6.5 annual avg.						

(52)(c) 5. Phenolic	Milligrams/L	< 0.0697	< 14.26	< 14.26	< 14.26	< 14.26	
Compound: 2,4-		See Note	See Note (2).	See Note (2).	See Note (2).	See Note (2).	
dinitrophenol		(2).					
(52)(c) 6. Phenolic	Milligrams/L	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.3
Compound: Phenol							
(53) Phosphorus	Micrograms/L		≤ 0.1		≤ 0.1		
(Elemental)							
(54) Phthalate Esters	Micrograms/L	≤ 3.0		≤ 3.0			
(55) Polychlorinated	Micrograms/L	<u> </u>	≤ 0.000045	≤ 0.000045	≤ 0.000045		
Biphenyls (PCBs)		0.000044	annual avg.;	annual avg.;	annual avg.;		
		annual	0.03 max	0.014 max	0.03 max		
		avg.;					
(56)(a) Polycyclic	Micrograms/L	0.014 max < 0.0028	< 0.031 annual	< 0.031annual	< 0.031 annual		
Aromatic	Wilciograms/L	≤ 0.0028 annual	avg.	avg.	avg.		
Hydrocarbons (PAHs).		avg.	avg.	avg.	avg.		
Total of:		8.					
Acenaphthylene;							
Benzo(a)anthracene;							
Benzo(a)pyrene;							
Benzo(b)fluoran-							
thene; Benzo-							
(ghi)perylene;							
Benzo(k)fluoranthene;							
Chrysene; Dibenzo-							
(a,h)anthracene; Indeno(1,2,3-							
cd)pyrene; and							
Phenanthrene							
(56)(b)1. (Individual	Milligrams/L	< 1.2	< 2.7	< 2.7	< 2.7		
PAHs): Acenaphthene	Trimigrams, 2	See Note	See Note (2).	See Note (2).	See Note (2).		
171115). 1 techapharene		(2).					
(56)(b)2. (Individual	Milligrams/L	< 9.6	< 110	< 110	< 110		
PAHs): Anthracene		See Note	See Note (2).	See Note (2).	See Note (2).		
		(2).					
(56)(b)3. (Individual	Milligrams/L	< 0.3	< 0.370	< 0.370	< 0.370		
PAHs): Fluoranthene		See Note	See Note (2).	See Note (2).	See Note (2).		
		(2).					
(56)(b)4. (Individual	Milligrams/L	< 1.3	< 14	< 14	< 14		
PAHs): Fluorene		See Note	See Note (2).	See Note (2).	See Note (2).		
(56)(1)(5, (7, 1); ; 1, 1) (**) /T	(2).	. 1.1	. 11	. 11		
(56)(b)5. (Individual	Milligrams/L	< 0.96	< 11 See Note (2)	< 11 See Note (2)	< 11 See Note (2)		
PAHs): Pyrene		See Note (2).	See Note (2).	See Note (2).	See Note (2).		
(57)(a) Radioactive	Picocuries/L	(2). ≤ 5	< 5	< 5	<u>≤</u> 5	< 5	<u>≤</u> 5
substances (Combined			- "		- "		- "
radium 226 and 228)							

(57)(b) Radioactive substances (Gross alpha particle activity including radium 226, but excluding radon and uranium)	Picocuries/L	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15	≤ 15
(58) Selenium	Micrograms/L	<u>≤</u> 5.0	<u><</u> 71	<u>≤</u> 5.0	<u>≤</u> 71		
(59) Silver	Micrograms/L See Note (3).	≤ 0.07	See Minimum criteria in Section 62-302.500(1)(c)	≤ 0.07	See Minimum criteria in Section 62-302.500(1)(c)		
(60) Specific							
Conductance (see							
Conductance, Specific, above)							
(61) Substances in			ı	•	•		
concentrations which							
injure, are chronically							
toxic to, or produce		None shall	be present.				
adverse physiological							
or behavioral response							
in humans, plants, or							
animals							
(62) 1,1,2,2-	Micrograms/L	\leq 0.17	≤ 10.8 annual	≤ 10.8 annual	\leq 10.8 annual		
Tetrachloroethane		annual	avg.	avg.	avg.		
		avg.					
(63)	Micrograms/L	≤ 0.8	\leq 8.85 annual	\leq 8.85 annual	\leq 8.85 annual		
Tetrachloroethylene		annual	avg.	avg.	avg.		
(1,1,2,2-		avg.,					
tetrachloroethene)		≤ 3.0 max					
(64) Thallium	Micrograms/L	< 1.7	< 6.3	< 6.3	< 6.3		
(65) Thermal Criteria							
(See Rule 62-302.520)							
(66) Total Dissolved			\leq 110% of	$\leq 110\%$ of	$\leq 110\%$ of		
Gases	saturation value			saturation	saturation		
	for gases at the	value	value	value	value		
	existing						
	atmospheric						
	and hydrostatic						
	pressures						

(67) Transparency	Depth of the compensation point within the water column for photosynthetic activity	The annual average value shall not be reduced by more than 10% as compared to the natural background value. Annual average values shall be based on a minimum of three samples, with each sample collected at least three months apart.	The annual average value shall not be reduced by more than 10% as compared to the natural background value. Annual average values shall be based on a minimum of three samples, with each sample collected at least three months apart.	The annual average value shall not be reduced by more than 10% as compared to the natural background value. Annual average values shall be based on a minimum of three samples, with each sample collected at least three months apart.	The annual average value shall not be reduced by more than 10% as compared to the natural background value. Annual average values shall be based on a minimum of three samples, with each sample collected at least three months apart.		
(68) Trichloroethylene (trichloroethene)	Micrograms/L	≤ 2.7 annual avg., < 3.0 max	≤ 80.7 annual avg.	≤ 80.7 annual avg.	≤ 80.7 annual avg.		
(69) Turbidity	Nephelometric Turbidity Units (NTU)	29 above natural	<pre></pre>	<pre></pre>	<pre></pre>	≤ 29 above natural background conditions	≤ 29 above natural background conditions
(70) Zinc	Micrograms/L See Notes (1) and (3).	$Zn \le e^{(0.8473[\ln H]+0}$.884)	≤ 86	$Zn \le e^{(0.8473[\ln H] + 0.884)}$	≤ 86	≤ 1,000	≤ 1,000

Notes: (1) "In H" means the natural logarithm of total hardness expressed as milligrams/L of CaCO₃. For metals criteria involving equations with hardness, the hardness shall be set at 25 mg/L if actual hardness is < 25 mg/L and set at 400 mg/L if actual hardness is > 400 mg/L. (2) This criterion is protective of human health not of aquatic life. (3) For application of dissolved metals criteria see paragraph 62-302.500(2)(d), F.A.C. (4) Class III-Limited waters have at least one Site Specific Alternative Criterion as established under Rule 62-302.800, F.A.C.

Rulemaking Authority 403.061, 403.062, 403.087, 403.504, 403.704, 403.804 FS. Law Implemented 403.021(11), 403.061, 403.087, 403.088, 403.141, 403.161, 403.182, 403.502, 403.702, 403.708 FS. History—New 1-28-90, Formerly 17-3.065, Amended 2-13-92, 6-17-92, Formerly 17-302.540, 17-302.550, 17-302.560, 17-302.570, 17-302.580, Amended 4-25-93, Formerly 17-302.530, Amended 1-23-95, 1-15-96, 5-15-02, 7-19-04, 12-7-06, 8-5-10, 7-3-12, 8-1-13.