## 62-302.532 Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criterion.

(1) Estuary-specific numeric interpretations of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., are in the table below. The concentration-based estuary interpretations are open water, area-wide averages. Numeric values listed below for nutrient and nutrient response values do not apply to wetlands or to tidal tributaries that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions unless specifically provided by name below. The interpretations expressed as load per million cubic meters of freshwater inflow are the total load of that nutrient to the estuary divided by the total volume of freshwater inflow to that estuary. The numeric values listed below will be superseded if, pursuant to subsection 62-302.531(2), F.A.C., a more recent numeric interpretation of the narrative nutrient criterion in paragraph 62-302.530(47)(b), F.A.C., such as a Level II Water Quality Based Effluent Limitation (WQBEL), Site Specific Alternative Criterion (SSAC), Total Maximum Daily Load (TMDL), or Reasonable Assurance Demonstration, is established by the Department.

Estuary	Total Phosphorus	Total Nitrogen	Chlorophyll a	
(a) Clearwater Harbor/St. Joseph Sound	Criteria expressed as annual geometric mean (AGM) values are not to be exceeded more than once in a three year period. Nutrient and nutrient response values do not apply to tidally influenced areas that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and bydrologic conditions.			
1. St. Joseph Sound	0.05 mg/L as AGM	0.66 mg/L as AGM	3.1 µg/L as AGM	
2. Clearwater North	0.05 mg/L as AGM	0.61 mg/L as AGM	5.4 µg/L as AGM	
3. Clearwater South	0.06 mg/L as AGM	0.58 mg/L as AGM	7.6 µg/L as AGM	
(b) Tampa Bay	Criteria expressed as ton/million cubic meters of water are annual totals and are not to be exceeded more than once in a three year period. Criteria expressed as annual means are arithmetic means and are not to be exceeded more than once in a three year period. For criteria expressed as the long-term average of annual means, the long-term average shall be based on data from the most recent seven-year period and shall not be exceeded. Nutrient and nutrient response values do not apply to tidally influenced areas that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic			
1. Old Tampa Bay	0.23 tons/million cubic meters of water	1.08 tons/million cubic meters of water	9.3 $\mu$ g/L as annual mean	
2. Hillsborough Bay	1.28 tons/million cubic meters of water	1.62 tons/million cubic meters of water	15.0 µg/L as annual mean	
3. Middle Tampa Bay	0.24 tons/million cubic meters of water	1.24 tons/million cubic meters of water	8.5 $\mu$ g/L as annual mean	
4. Lower Tampa Bay	0.14 tons/million cubic meters of water	0.97 tons/million cubic meters of water	5.1 µg/L as annual mean	
5. Boca Ciega North	0.18 tons/million cubic meters of water	1.54 tons/million cubic meters of water	8.3 $\mu$ g/L as annual mean	
6. Boca Ciega South	0.06 tons/million cubic meters of water	0.97 tons/million cubic meters of water	$6.3 \mu g/L$ as annual mean	
7. Terra Ceia Bay	0.14 tons/million cubic meters of water	1.10 tons/million cubic meters of water	8.7 μg/L as annual mean	
8. Manatee River Estuary	0.37 tons/million cubic meters of water	1.80 tons/million cubic meters of water	8.8 $\mu$ g/L as annual mean	
9. Alafia River Estuary	0.86 mg/L as long-term average of annual means	See subsection 62- 304.605(2), F.A.C.	15.0 μg/L as annual mean	
(c) Sarasota Bay	Criteria expressed as annual geometric mean (AGM) values for nutrients and annual arithmetic means for chlorophyll <i>a</i> are not to be exceeded more than once in a three year period. Nutrient and nutrient response values do not apply to tidally influenced areas that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions.         0.26 mg/L as AGM       0.93 mg/L as AGM       11.8 ug/L as annual mean			

2. Sarasota Bay (Total	0.19 mg/L as AGM	See paragraph 62-	$6.1 \mu$ g/L as annual mean
Phosphorus and		302.532(1)(i), F.A.C.	10
Chlorophyll <i>a</i> )			
3. Roberts Bay	0.23 mg/L as AGM	0.54 mg/L as AGM	11.0 μg/L as annual mean
4. Little Sarasota Bay	0.21 mg/L as AGM	0.60 mg/L as AGM	$10.4 \mu$ g/L as annual mean
5. Blackburn Bay	0.21 mg/L as AGM	0.43 mg/L as AGM	8.2 μg/L as annual mean
(d) Charlotte Harbor/Estero	Criteria expressed as annual means are ar	ithmetic means and are not to	be exceeded more than once in a
Bay	three year period. For criteria expressed a	as long-term averages, the long	g-term average shall be based on
	data from the most recent seven-year pe	eriod and shall not be exceed	ed. Criteria expressed as annual
	geometric means (AGM) are not be excee	ded more than once in a three y	year period. For criteria expressed
	as not to be exceeded in more than 10 per	rcent of the samples, the criteri	a shall be assessed over the most
	recent seven year period. Nutrient and nut	rient response values do not ap	ply to tidally influenced areas that
	fluctuate between predominantly marine	e and predominantly fresh wa	ters during typical climatic and
	hydrologic conditions.		
1. Dona and Roberts Bay	0.18 mg/L as annual mean	0.42 mg/L as annual mean	4.9 μg/L as annual mean
2. Upper Lemon Bay	0.26 mg/L as annual mean	0.56 mg/L as annual mean	8.9 μg/L as annual mean
3. Lower Lemon Bay	0.17 mg/L as annual mean	0.62 mg/L as annual mean	6.1 μg/L as annual mean
4. Charlotte Harbor Proper	0.19 mg/L as annual mean	0.67 mg/L as annual mean	6.1 μg/L as annual mean
5. Pine Island Sound	0.06 mg/L as annual mean	0.57 mg/L as annual mean	6.5 μg/L as annual mean
6. San Carlos Bay	0.045 mg/L as long-term average	0.44 mg/L as long-term	3.7 $\mu$ g/L as long-term average
		average	
7. Tidal Myakka River	0.31 mg/L as annual mean	1.02 mg/L as annual mean	11.7 μg/L as annual mean
8. Tidal Peace River	0.50 mg/L as annual mean	1.08 mg/L as annual mean	12.6 ug/L as annual mean
9. Matlacha Pass	0.08 mg/L as annual mean	0.58 mg/L as annual mean	6.1 μg/L as annual mean
10. Estero Bay (including	0.07 mg/L as annual mean	0.63 mg/L as annual mean	5.9 $\mu$ g/L as annual mean
Tidal Imperial River)			
11. Little Hickory Bay	0.070 mg/L as AGM	0.63 mg/L as AGM	5.9 mg/L as AGM
12. Water Turkey Bay	0.057 mg/L as AGM	0.47 mg/L as AGM	5.8 μg/L as AGM
13. Moorings Bay	0.040 mg/L, not to be exceeded in more	0.85  mg/L, not to be	8.1 μg/L as AGM
	than ten percent of the samples	exceeded in more than ten	
		percent of the samples	
14. Upper Caloosahatchee	0.086 mg/L as long-term average	See subsection 62-	$4.2 \mu$ g/L as long-term average
River Estuary		304.800(2), F.A.C.	
15. Middle Caloosahatchee	0.055 mg/L as long-term average	See subsection 62-	$6.5 \mu g/L$ as long-term average
River Estuary	0.040 7.1	304.800(2), F.A.C.	
16. Lower Caloosahatchee	0.040 mg/L as long-term average	See subsection 62-	$5.6 \mu\text{g/L}$ as long-term average
River Estuary		304.800(2), F.A.C.	
(e) I idal Cocohatchee	Criteria expressed as annual geometric m	eans (AGM) not to be exceeded	ed more than once in a three year
River/Ten Thousand	period.		
1 Tidal Casabatahaa Dimar	0.057  mg/ as $ACM$	0.47	5 8 mg/L as ACM
1. Tidal Coconatchee River	0.037  mg/L as AGM	0.4 / mg/L as AGM	2.1 wg/L as AGM
2. Collier Inshore	0.04 mg/L as AGM	0.25  mg/L as AGM	4.0 mg/L as AGM
3. ROOKERY Bay/Marco	0.046 mg/L as AGM	0.30 mg/L as AGM	4.9 $\mu$ g/L as AGM
A Naples Per	$0.045 \text{ mg/L} \text{ as } \Delta \text{GM}$	$0.57 \text{ mg/L} \approx \Lambda CM$	
4. Inapies Day	0.045 mg/L as AGW	0.37  mg/L  as AGW	$1.5 \mu g/L$ as AGIVI
6 Middle Cult Shelf	0.016  mg/L  as AGW	0.29  mg/L as AGM	$1.0 \mu\text{g/L}$ as AGW
0. Ivildule Gull Shell		0.20 mg/L as AGM	1.4 $\mu$ g/L as AGW
7. Outer Guil Shelf	U.UIS IIIg/L as AGM	0.22 mg/l as AGM	1.0 µg/L as AGM

8. Blackwater River	0.053 mg/L as AGM	0.41 mg/L as AGM	4.1 µg/L as AGM
9. Coastal Transition Zone	0.034 mg/L as AGM	0.61 mg/L as AGM	$3.9 \mu\text{g/L}$ as AGM
10. Gulf Islands	0.038 mg/L as AGM	0.44 mg/L as AGM	$3.4 \mu g/L$ as AGM
11. Inner Waterway	0.033 mg/L as AGM	0.69 mg/L as AGM	5.2 µg/L as AGM
12. Mangrove Rivers	0.021 mg/L as AGM	0.71 mg/L as AGM	3.7 µg/L as AGM
13. Ponce de Leon	0.024 mg/L as AGM	0.52 mg/L as AGM	3.0 µg/L as AGM
14. Shark River Mouth	0.022 mg/L as AGM	0.75 mg/L as AGM	2.2 µg/L as AGM
15. Whitewater Bay	0.026 mg/L as AGM	0.82 mg/L as AGM	4.1 µg/L as AGM
(f) Florida Bay	Criteria expressed as annual geometric m	neans (AGM) are not to be ex-	ceeded more than once in a three
	year period.	1	
1. Central Florida Bay	0.019 mg/L as AGM	0.99 mg/L as AGM	2.2 µg/L as AGM
2. Coastal Lakes	0.045 mg/L as AGM	1.29 mg/L as AGM	9.3 µg/L as AGM
3. East Central Florida Bay	0.007 mg/L as AGM	0.65 mg/L as AGM	0.4 µg/L as AGM
4. Northern Florida Bay	0.010 mg/L as AGM	0.68 mg/L as AGM	0.8 µg/L as AGM
5. Southern Florida Bay	0.009 mg/L as AGM	0.64 mg/L as AGM	0.8 µg/L as AGM
6. Western Florida Bay	0.015 mg/L as AGM	0.37 mg/L as AGM	1.4 µg/L as AGM
(g) Florida Keys	Criteria expressed as annual geometric myear period.	neans (AGM) are not to be exercised	ceeded more than once in a three
1. Back Bay	0.009 mg/L as AGM	0.25 mg/L as AGM	0.3 µg/L as AGM
2. Backshelf	0.011 mg/L as AGM	0.23 mg/L as AGM	0.7 µg/L as AGM
3. Lower Keys	0.008 mg/L as AGM	0.21 mg/L as AGM	0.3 µg/L as AGM
4. Marquesas	0.008 mg/L as AGM	0.21 mg/L as AGM	0.6 µg/L as AGM
5. Middle Keys	0.007 mg/L as AGM	0.22 mg/L as AGM	$0.3 \mu\text{g/L}$ as AGM
6. Oceanside	0.007 mg/L as AGM	0.17 mg/L as AGM	$0.3 \mu\text{g/L}$ as AGM
7. Upper Keys	0.007 mg/L as AGM	0.18 mg/L as AGM	$0.2 \mu g/L$ as AGM
	Criteria expressed as annual geometric means (AGM) are not to be exceeded more than once in a three year period		
(h) Biscayne Bay	Criteria expressed as annual geometric m year period.	heans (AGM) are not to be ex-	ceeded more than once in a three
(h) Biscayne Bay 1. Card Sound	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM	eans (AGM) are not to be ex	0.5 µg/L as AGM
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM	0.33 mg/L as AGM 0.58 mg/L as AGM	$0.5 \mu\text{g/L}$ as AGM 0.4 $\mu\text{g/L}$ as AGM
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes</li> <li>Sound</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM	0.33 mg/L as AGM 0.58 mg/L as AGM	0.5 μg/L as AGM 0.4 μg/L as AGM
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes</li> <li>Sound</li> <li>3. North Central Inshore</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM	0.33 mg/L as AGM 0.58 mg/L as AGM 0.31 mg/L as AGM	0.5 μg/L as AGM 0.4 μg/L as AGM 0.5 μg/L as AGM
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM	0.33 mg/L as AGM 0.58 mg/L as AGM 0.31 mg/L as AGM 0.28 mg/L as AGM	<ul> <li>0.5 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> <li>0.5 μg/L as AGM</li> <li>0.7 μg/L as AGM</li> </ul>
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM	0.33 mg/L as AGM 0.58 mg/L as AGM 0.31 mg/L as AGM 0.28 mg/L as AGM 0.30 mg/L as AGM	<ul> <li>0.5 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> <li>0.5 μg/L as AGM</li> <li>0.7 μg/L as AGM</li> <li>1.7 μg/L as AGM</li> </ul>
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes</li> <li>Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM	0.33 mg/L as AGM 0.58 mg/L as AGM 0.31 mg/L as AGM 0.28 mg/L as AGM 0.30 mg/L as AGM 0.48 mg/L as AGM	<ul> <li>0.5 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> <li>0.5 μg/L as AGM</li> <li>0.7 μg/L as AGM</li> <li>1.7 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> </ul>
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L	0.33 mg/L as AGM 0.58 mg/L as AGM 0.58 mg/L as AGM 0.31 mg/L as AGM 0.28 mg/L as AGM 0.30 mg/L as AGM 0.48 mg/L as AGM 0.35 mg/L as AGM	<ul> <li>0.5 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> <li>0.5 μg/L as AGM</li> <li>0.7 μg/L as AGM</li> <li>1.7 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> <li>0.2 μg/L as AGM</li> <li>0.2 μg/L as AGM</li> </ul>
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L 0.006 mg/L as AGM	0.33 mg/L as AGM 0.58 mg/L as AGM 0.58 mg/L as AGM 0.31 mg/L as AGM 0.28 mg/L as AGM 0.30 mg/L as AGM 0.48 mg/L as AGM 0.35 mg/L as AGM 0.24 mg/L as AGM	<ul> <li>0.5 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> <li>0.5 μg/L as AGM</li> <li>0.7 μg/L as AGM</li> <li>1.7 μg/L as AGM</li> <li>0.4 μg/L as AGM</li> <li>0.2 μg/L as AGM</li> <li>0.2 μg/L as AGM</li> <li>0.2 μg/L as AGM</li> </ul>
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<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L 0.006 mg/L as AGM 0.010 mg/L as AGM For TN, the annual geometric mean ta region and season. Annual geometric m	0.33 mg/L as AGM         0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.48 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.1 μg/L as AGM         0.2 μg/L as AGM         0.1 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.1 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.8 μg/L as AGM         0.9 μg/L as AGM         0.9 μg/L as AGM         0.9 μg/L as AGM         0.9 μg/L as AGM         1.1 μg/L as AGM         nthly arithmetic mean color by         more than once in a three year
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L 0.006 mg/L as AGM 0.010 mg/L as AGM For TN, the annual geometric mean ta region and season. Annual geometric r period. The Sarasota Bay regions are	0.33 mg/L as AGM         0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.35 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.1 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         nthly arithmetic mean color by         more than once in a three year         e County) and south (Sarasota
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L 0.006 mg/L as AGM 0.010 mg/L as AGM For TN, the annual geometric mean ta region and season. Annual geometric r period. The Sarasota Bay regions are County). The wet season for Sarasota B	0.33 mg/L as AGM         0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.48 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM         arget is calculated from more         neans shall not be exceeded         a defined as north (Manated         Bay is defined as July through	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.11 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         nthly arithmetic mean color by more than once in a three year         e County) and south (Sarasota h October and the dry season is
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.006 mg/L as AGM 0.010 mg/L as AGM For TN, the annual geometric mean ta region and season. Annual geometric r period. The Sarasota Bay regions are County). The wet season for Sarasota E defined as all other months of the yea	0.33 mg/L as AGM         0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.48 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM         0.20 mg/L as AGM         0.20 mg/L as AGM         0.20 mg/L as AGM         0.20 mg/L as AGM	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         nthly arithmetic mean color by         more than once in a three year         c County) and south (Sarasota         h October and the dry season is         ts are calculated using monthly
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L as AGM 0.008 mg/L as AGM 0.012 mg/L as AGM 0.007 mg/L as AGM 0.007 mg/L 0.006 mg/L as AGM 0.010 mg/L as AGM For TN, the annual geometric mean ta region and season. Annual geometric r period. The Sarasota Bay regions are County). The wet season for Sarasota E defined as all other months of the yea color data and shall be calculated as foll	0.33 mg/L as AGM         0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.30 mg/L as AGM         0.48 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM         0.20 mg/L as AGM	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.4 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         nthly arithmetic mean color by         more than once in a three year         e County) and south (Sarasota         h October and the dry season is         ts are calculated using monthly
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.008  mg/L as AGM 0.012  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.006  mg/L as AGM 0.010  mg/L as AGM 0.010  mg/L as AGM For TN, the annual geometric mean taregion and season. Annual geometric reperiod. The Sarasota Bay regions are County). The wet season for Sarasota E defined as all other months of the year color data and shall be calculated as foll $NW_i=\text{Ln}[(13.35-(0.32*CN_i))/3.581]$	0.33 mg/L as AGM         0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.30 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM         0.29 mg/L as AGM         arget is calculated from morneans shall not be exceeded         e defined as north (Manated Bay is defined as July throug         r. The seasonal region targe         lows:	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         1.1 μg/L as AGM         1.1 μg/L as AGM         1.2 μg/L as AGM         1.3 μg/L as AGM         1.4 μg/L as AGM         0.5 μg/L as AGM         0.5 μg/L as AGM         0.5 μg/L as AGM         0.5 μg/L as AGM         1.1 μg/L as AGM         1.1 μg/L as AGM         nthly arithmetic mean color by         more than once in a three year         e County) and south (Sarasota         h October and the dry season is         ts are calculated using monthly
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.008  mg/L as AGM 0.012  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.006  mg/L as AGM 0.006  mg/L as AGM 0.010  mg/L as AGM For TN, the annual geometric mean taregion and season. Annual geometric r period. The Sarasota Bay regions are County). The wet season for Sarasota E defined as all other months of the year color data and shall be calculated as foll $NW_i=\text{Ln}[(13.35-(0.32*CN_i))/3.58]$ $ND_i=\text{Ln}[(10.39-(0.32*CN_i))/3.58]$	0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.30 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM         0.29 mg/L as AGM         arget is calculated from moneans shall not be exceeded         e defined as north (Manatee         Bay is defined as July throug         r. The seasonal region targe         lows:	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         1.1 μg/L as AGM         1.2 μg/L as AGM         1.3 μg/L as AGM         1.4 μg/L as AGM         1.5 μg/L as AGM         1.6 μg/L as AGM         1.7 μg/L as AGM         1.8 μg/L as AGM         1.9 μg/L as AGM         1.1 μg/L as AG
<ul> <li>(h) Biscayne Bay</li> <li>1. Card Sound</li> <li>2. Manatee Bay – Barnes Sound</li> <li>3. North Central Inshore</li> <li>4. North Central Outer-Bay</li> <li>5. Northern North Bay</li> <li>6. South Central Inshore</li> <li>7. South Central Mid-Bay</li> <li>8. South Central Outer-Bay</li> <li>9. Southern North Bay</li> <li>(i) Sarasota Bay</li> </ul>	Criteria expressed as annual geometric m year period. 0.008  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.008  mg/L as AGM 0.008  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.007  mg/L as AGM 0.006  mg/L as AGM 0.006  mg/L as AGM 0.010  mg/L as AGM 0.010  mg/L as AGM For TN, the annual geometric mean taregion and season. Annual geometric r period. The Sarasota Bay regions are County). The wet season for Sarasota E defined as all other months of the year color data and shall be calculated as foll $NW_i=\text{Ln}[(13.35-(0.32*CN_i))/3.58]$ $ND_i=\text{Ln}[(8.51-(0.32*CS_i)/3.58]$	0.33 mg/L as AGM         0.33 mg/L as AGM         0.58 mg/L as AGM         0.31 mg/L as AGM         0.28 mg/L as AGM         0.30 mg/L as AGM         0.48 mg/L as AGM         0.35 mg/L as AGM         0.24 mg/L as AGM         0.29 mg/L as AGM         0.20 mg/L as AGM         0.20 mg/L as AGM	0.5 μg/L as AGM         0.4 μg/L as AGM         0.5 μg/L as AGM         0.7 μg/L as AGM         0.7 μg/L as AGM         0.4 μg/L as AGM         0.4 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         0.2 μg/L as AGM         1.1 μg/L as AGM         1.1 μg/L as AGM         october and the dry season is the are calculated using monthly

(j) Clam Bay (Collier County)	Where, $NW_i$ is the TN target for $i^{th}$ month calculated for the north region during the wet season $ND_i$ is the TN target for $i^{th}$ month calculated for the north region during the dry season $SW_i$ is the TN target for $i^{th}$ month calculated for the south region during the wet season $SD_i$ is the TN target for $i^{th}$ month calculated for the south region during the dry season $CN_i$ is the arithmetic mean color during the $i^{th}$ month within the north region During the wet season, $CN_i$ shall be set to 41 PCU if the monthly arithmetic mean color is greater than 41 PCU During the dry season, $CN_i$ shall be set to 32 PCU if the monthly arithmetic mean color is greater than 32 PCU $CS_i$ is the arithmetic mean color during the $i^{th}$ month within the south region During the wet season, $CS_i$ shall be set to 26 PCU if the monthly arithmetic mean color is greater than 32 PCU $CS_i$ is the arithmetic mean color during the $i^{th}$ month within the south region During the wet season, $CS_i$ shall be set to 16 PCU if the monthly arithmetic mean color is greater than 26 PCU During the dry season, $CS_i$ shall be set to 16 PCU if the monthly arithmetic mean color is greater than 16 PCU The annual TN target is calculated as the geometric mean of all monthly regional and season targets as follows: $g \frac{\sum_{i=1}^{t_2} (\frac{NWi + NDi + 51Wi + 5Di}{24})}{24}$ Nutrient and nutrient response values do not apply to tidally influenced areas that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions. No more than 10 percent of the individual Total Phosphorus (TP) or Total Nitrogen (TN) measurements			
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Estuary	Total Phosphorus	Total Nitrogen	Chlorophyll a	
(k) Perdido Bay	Criteria expressed as annual geometric means (AGM) are not to be exceeded more than once in a three year period. For all other bay segments, the criteria shall not be exceeded in more than 10 percent of the measurements and shall be assessed over the most recent seven year period. Nutrient and nutrient response values do not apply to tidally influenced areas that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions.			
1. Big Lagoon	0.036 mg/L as AGM	0.61 mg/L as AGM	6.4 μg/L	
2. Upper Perdido Bay	0.102 mg/L	1.27 mg/L	11.5 μg/L	
3. Central Perdido Bay	0.103 mg/L	0.97 mg/L	7.5 μg/L	
4. Lower Perdido Bay	0.110 mg/L	0.78 mg/L	6.9 μg/L	
(I) Pensacola Bay	For bay segments with criteria expressed as annual geometric means (AGM), the values shall not be exceeded more than once in a three year period. For criteria expressed as the long-term average of annual means, the long-term average shall be based on data from the most recent seven-year period and shall not be exceeded. For all other bay segments, the criteria shall not be exceeded in more than 10 percent of the measurements. Nutrient and nutrient response values do not apply to tidally influenced areas that fluctuate between predominantly marine and predominantly fresh waters during typical climatic and hydrologic conditions.			
1. Lower Escambia Bay	0.076 mg/L	0.56 mg/L as AGM	6.8 µg/L as AGM	
2. East Bay	0.084 mg/L	0.83 mg/L	4.0 µg/L as AGM	
3. Upper Pensacola Bay	0.084 mg/L	0.77 mg/L	6.0 μg/L as AGM	

4. Lower Pensacola Bay	0.024 mg/L as AGM	0.48 mg/L as AGM	3.9 µg/L as AGM
5. Santa Rosa Sound	0.022 mg/L as AGM	0.41 mg/L as AGM	3.4 µg/L as AGM
6. Blackwater Bay	0.082 mg/L	0.61 mg/L	11.3 μg/L
7. Upper Escambia Bay	See subsection 62-304.330(10), F.A.C.	See subsection 62-	7.4 $\mu$ g/L as long-term average
and Judges Bayou		304.330(10), F.A.C.	of annual means
(m) Choctawhatchee Bay	For bay segments with criteria expressed	d as annual geometric means	(AGM), the values shall not be
	exceeded more than once in a three year	r period. For all other bay se	gments, the criteria shall not be
	exceeded in more than 10 percent of the m	neasurements. Nutrient and nutr	rient response values do not apply
	to tidally influenced areas that fluctuate b	between predominantly marine	and predominantly fresh waters
	during typical climatic and hydrologic con	ditions.	
1. Alaqua Bayou	0.027 mg/L as AGM	0.41 mg/L as AGM	4.0 μg/L as AGM
2. Basin Bayou	0.019 mg/L as AGM	0.31 mg/L as AGM	4.7 μg/L
3. Boggy Bayou	0.015 mg/L as AGM	0.33 mg/L as AGM	3.0 µg/L as AGM
4. East Bay	0.027 mg/L as AGM	0.46 mg/L as AGM	4.4 μg/L as AGM
5. Garnier Bayou	0.017 mg/L as AGM	0.91 mg/L as AGM	4.0 μg/L as AGM
6. LaGrange Bayou	0.029 mg/L as AGM	0.58 mg/L as AGM	5.1 μg/L as AGM
7. Middle Bay	0.020 mg/L as AGM	0.36 mg/L as AGM	3.1 µg/L as AGM
8. Rocky Bayou	0.016 mg/L as AGM	0.33 mg/L as AGM	3.1 µg/L as AGM
9. West Bay	0.049 mg/L as AGM	0.54 mg/L as AGM	4.1 μg/L as AGM
(n) St. Andrew Bay	Criteria for all bay segments are expresse	d as annual geometric mean (A	AGM) values not to be exceeded
	more than once in a three year period.	Nutrient and nutrient response	e values do not apply to tidally
	influenced areas that fluctuate between predominantly marine and predominantly fresh waters during		
	typical climatic and hydrologic conditions.		1
1. East Bay	0.016 mg/L as AGM	0.33 mg/L as AGM	3.9 µg/L as AGM
2. North Bay	0.014 mg/L as AGM	0.28 mg/L as AGM	3.1 µg/L as AGM
3. St. Andrew Bay	0.019 mg/L as AGM	0.34 mg/L as AGM	3.7 μg/L as AGM
4. West Bay	0.017 mg/L as AGM	0.35 mg/L as AGM	3.8 µg/L as AGM
5. Crooked Island Sound	0.019 mg/L as AGM	0.34 mg/L as AGM	3.7 µg/L as AGM
(o) St. Joseph Bay	Criteria for all bay segments are expressed as annual geometric mean (AGM) values not to be exceeded		
	more than once in a three year period.	Nutrient and nutrient response	e values do not apply to tidally
	influenced areas that fluctuate between	predominantly marine and pre-	edominantly fresh waters during
	typical climatic and hydrologic conditions.		
St. Joseph Bay	0.021 mg/L as AGM	0.34 mg/L as AGM	3.8 µg/L as AGM
(p) Apalachicola Bay and	For bay segments with criteria expressed	d as annual geometric means	(AGM), the values shall not be
Alligator Harbor	exceeded more than once in a three year	r period. For all other bay se	gments, the criteria shall not be
	exceeded in more than 10 percent of the	measurements and shall be ass	essed over the most recent seven
	year period. Nutrient and nutrient response	se values do not apply to tidal	ly influenced areas that fluctuate
	between predominantly marine and pred	ominantly fresh waters during	typical climatic and hydrologic
	conditions.		
1. Apalachicola Bay	0.063 mg/L as AGM	0.84 mg/L as AGM	8.4 µg/L as AGM
2. St. George Sound	0.083 mg/L	0.92 mg/L	6.1 µg/L as AGM
3. East Bay	0.101 mg/L	1.12 mg/L	9.7 μg/L as AGM
4. St. Vincent Sound	0.116 mg/L	1.10 mg/L	17.4 μg/L
5. Apalachicola Offshore	0.032 mg/L	0.57 mg/L	8.2 µg/L
6. Alligator Habor	0.028 mg/L as AGM	0.42 mg/L as AGM	6.0 μg/L as AGM
Estuary	Total Phosphorus	Total Nitrogen	Chlorophyll a
(q) Loxahatchee River	For estuary segments with criteria express	sed as annual geometric means	s (AGM), the values shall not be
Estuary	exceeded more than once in a three year period. For all other estuary segments, the criteria shall not be		

	exceeded in more than 10 percent of the measurements and shall be assessed over the most recent seven		
1 Lower Loxabatchee	0.032 mg/L as AGM	0.63 mg/L as AGM	1.8 µg/L as AGM
2 Middle Loxabatchee	0.030  mg/L  as AGM	0.80 mg/L as AGM	4.0 µg/L as AGM
3 Upper Loxabatchee	0.075 mg/L as AGM	1.26 mg/L as AGM	5.5 µg/L as AGM
1 Lovahatchee River	0.075 mg/L as AGM	1.26 mg/L as AGM	5.5 µg/L as AGM
Fstuary (Southwest Fork)	0.075 hig/L as AOM	1.20 mg E us 1101/1	
(r) Lake Worth Lagoon	For estuary segments with criteria expre	ssed as annual geometric mean	(AGM) the values shall not be
(I) Lake Worth Lagoon	exceeded more than once in a three year	r period For all other estuary s	segments the criteria shall not be
	exceeded in more than 10 percent of the p	measurements.	segments, the enterna shan not be
1. Northern Lake Worth	0.044 mg/L as AGM	0.54 mg/L as AGM	2.9 μg/L as AGM
Lagoon			
2. Central Lake Worth	0.049 mg/L as AGM	0.66 mg/L as AGM	10.2 μg/L
Lagoon			
3. Southern Lake Worth	0.050 mg/L as AGM	0.59 mg/L as AGM	5.7 µg/L as AGM
Lagoon			
(s) Halifax River Estuary	For estuary segments with criteria expre	essed as annual geometric mean	s (AGM), the values shall not be
and Tomoka River Estuary	exceeded more than once in a three year	period. Criteria expressed as ani	nual means are not to be exceeded
	in any year.		
1. Lower Halifax River	0.142 mg/L as AGM	0.72 mg/L as AGM	6.2 μg/L as AGM
Estuary			
2. Upper Halifax River	See subsection 62-304.435(5), F.A.C.	See subsection 62-	9.0 µg/L as annual mean
Estuary		304.435(5), F.A.C.	
3. Tomoka River Estuary	0.132 mg/L as AGM	1.24 mg/L as AGM	7.2 µg/L as AGM
4. Tomoka Basin	0.105 mg/L as AGM	1.20 mg/L as AGM	7.1 µg/L as AGM
(t) Guana River/Tolomato	Criteria for all estuary segments are expressed as annual geometric mean values (AGM) not to be		
River/Matanzas River	exceeded more than once in a three year period.		
(GTM) Estuary		-	
1. Tolomato	0.105 mg/L as AGM	0.65 mg/L as AGM	6.6 μg/L as AGM
2. North Matanzas	0.110 mg/L as AGM	0.55 mg/L as AGM	4.0 μg/L as AGM
3. South Matanzas	0.111 mg/L as AGM	0.53 mg/L as AGM	5.5 µg/L as AGM
4. Pellicer Creek Estuary	0.123 mg/L as AGM	1.10 mg/L as AGM	4.3 µg/L as AGM
(u) Nassau River Estuary	For estuary segments with criteria expre	essed as annual geometric mean	s (AGM), the values shall not be
	exceeded more than once in a three year	r period. For all other estuary s	segments, the criteria shall not be
	exceeded in more than 10 percent of the	measurements.	
1. Ft. George River Estuary	0.107 mg/L as AGM	0.60 mg/L as AGM	5.9 µg/L as AGM
2. Lower Nassau	0.107 mg/L as AGM	0.80mg/L as AGM	17.5 μg/L
3. Middle Nassau	0.137 mg/L as AGM	0.83 mg/L as AGM	17.1 μg/L
4. Upper Nassau	0.191 mg/L as AGM	1.29 mg/L as AGM	4.7 μg/L as AGM
(v) Suwannee, Waccasassa,	For estuary segments with criteria expre	essed as single value annual geo	metric means (AGM), the values
and Withlacoochee River	shall not be exceeded more than once in	a three year period. For estuary	segments with criteria expressed
Estuaries	as a salinity dependent equation, the ar	nual nutrient criteria are expre	essed as annual geometric means
	applied to individual monitoring station	ns by solving the applicable e	equation below using the annual
	arithmetic average salinity (AASal) in p	practical salinity units (PSU) for	r the station. The AASal shall be
	calculated as the annual mean of the sali	inity measurements for each stat	tion made in conjunction with the
	collection of the nutrient samples. For cr	iteria expressed as a salinity dep	pendent equation, no more than 10
	percent of the monitoring stations within	n the segment shall exceed the	limit (expressed as AGM) on an
	annual basis, more than once in a three year period.		

1. Suwannee Offshore	TP as AGM =	TN as AGM =	5.7 µg/L as AGM	
	-0.0035*AASal + 0.1402	-0.0328*AASal + 1.4177		
2. Waccasassa Offshore	0.063 mg/L as AGM	0.69 mg/L as AGM	5.6 µg/L as AGM	
3. Withlacoochee Offshore	TP as AGM =	TN as AGM =	4.9 μg/L as AGM	
	-0.0021*AASal + 0.0942	-0.0183*AASal + 0.9720		
(w) Springs Coast (Crystal	For estuary segments with criteria expressed as annual geometric means (AGM), the values shall not b			
River to Anclote River)	exceeded more than once in a three year	period.		
1. Anclote Offshore	0.014 mg/L as AGM	0.42 mg/L as AGM	1.7 μg/L as AGM	
2. Anclote River Estuary	0.063 mg/L as AGM	0.65 mg/L as AGM	3.8 µg/L as AGM	
3. Aripeka and Hudson	0.008 mg/L as AGM	0.45 mg/L as AGM	0.8 μg/L as AGM	
Offshore				
4. Chassahowitzka NWR	0.015 mg/L as AGM	0.55 mg/L as AGM	2.0 µg/L as AGM	
5. Chassahowitzka	0.011 mg/L as AGM	0.46 mg/L as AGM	1.5 μg/L as AGM	
Offshore				
6. Chassahowitzka River	0.021 mg/L as AGM	0.44 mg/L as AGM	3.9 µg/L as AGM	
Estuary				
7. Crystal Offshore	0.034 mg/L as AGM	0.40 mg/L as AGM	2.4 µg/L as AGM	
8. Crystal River Estuary	0.047 mg/L as AGM	0.37 mg/L as AGM	4.4 µg/L as AGM	
9. Homosassa Offshore	0.012 mg/L as AGM	0.46 mg/L as AGM	1.3 μg/L as AGM	
10. Homosassa River	0.028 mg/L as AGM	0.51 mg/L as AGM	7.7 μg/L as AGM	
Estuary				
11. Pithlachascotee	0.010 mg/L as AGM	0.47 mg/L as AGM	1.0 µg/L as AGM	
Offshore				
12. Pithlachascotee River	0.034 mg/L as AGM	0.65 mg/L as AGM	4.0 μg/L as AGM	
Estuary				
13. St. Martins Marsh	0.031 mg/L as AGM	0.51 mg/L as AGM	3.2 µg/L as AGM	
14. Weeki Wachee	0.017 mg/L as AGM	0.54 mg/L as AGM	1.2 μg/L as AGM	
Offshore				
15. Weeki Wachee River	0.019 mg/L as AGM	0.60 mg/L as AGM	1.9 μg/L as AGM	
Estuary		$0.65 m \sigma I \sim ACM$		
10. Anciote Bayou	0.003  mg/L as AGM	0.05 mg/L as AGM	5.8 µg/L as AGM	
17. Kings Bay	See subsection 62-304.045(17), F.A.C.	See subsection $62$ -	$5.7 \mu\text{g/L}$ as AGM	
(v) Big Bend and	For hav segments with criteria express	red as annual geometric means	(AGM) the values shall not be	
Apalachee Bay	exceeded more than once in a three v	ear period. For all other hav s	egments the criteria shall not be	
Appliance Day	exceeded in more than 10 percent of the	e measurements and shall be as	sessed over the most recent seven	
	vear period Nutrient and nutrient respo	onse values do not apply to tida	illy influenced areas that fluctuate	
	between predominantly marine and pre-	adominantly fresh waters durin	g typical climatic and hydrologic	
	conditions.		g officer commune and injunotogie	
1. Ochlockonee River	0.067 mg/L	0.86 mg/L	9.2 µg/L	
Estuary	0.000 mg 2	0100 mg 2	> MS	
2. Ochlockonee/Alligator	0.032 mg/L	0.57 mg/L	8.2 µg/L	
Harbor Offshore	- 0	6-		
3. St. Marks River Estuary	0.044 mg/L	0.70 mg/L	6.0 µg/L	
4. St. Marks Offshore	0.045 mg/L	0.63 mg/L	8.0 µg/L	
(includes Ovster and	6	- 0	10	
Dickerson Bays)				
5. Aucilla River Estuary	0.080 mg/L	0.89 mg/L	2.2 µg/L	

6. Aucilla Offshore	0.025 mg/L	0.60 mg/L	9.5 µg/L
7. Econfina River Estuary	0.101 mg/L as AGM	1.14 mg/L as AGM	4.9 µg/L as AGM
8. Econfina Offshore	0.042 mg/L as AGM	0.65 mg/L as AGM	3.7 µg/L as AGM
9. Fenholloway River	839 lbs/day, as an annual average,	5,573 lbs/day, as an annual	4.6 µg/L as AGM
Estuary	based on Level II WQBEL	average, based on Level II	
		WQBEL	
10. Fenholloway Offshore	0.059 mg/L as AGM	0.68 mg/L as AGM	4.1 μg/L as AGM
11. Spring Warrior	0.047 mg/L	0.67 mg/L	8.3 μg/L
Offshore			
12. Steinhatchee River	0.062 mg/L as AGM	0.86 mg/L as AGM	3.9 µg/L as AGM
Estuary			
13. Steinhatchee Offshore	0.021 mg/L as AGM	0.45 mg/L as AGM	3.3 µg/L as AGM
14. Horseshoe Beach	0.021 mg/L as AGM	0.45 mg/L as AGM	3.3 μg/L as AGM
Offshore			
15. Cedar Key	0.060 mg/L as AGM	0.79 mg/L as AGM	10.9 μg/L as AGM
(y) Intracoastal Waterway	For ICWW segments with criteria expre	essed as annual geometric means	s (AGM), the values shall not be
(ICWW)	exceeded more than once in a three year	period. Criteria expressed as kg/	year and annual means are not to
	be exceeded in any year. For all other IC	WW segments, the criteria shall	not be exceeded in more than 10
	percent of the measurements and shall be	assessed over the most recent se	even year period.
1. Gulf ICWW between	0.108 mg/L	1.13 mg/L	6.6 µg/L
Choctawhatchee Bay and			
St. Andrew Bay	0.100	1.12	
2. Gulf ICWW between St.	0.108 mg/L	1.13 mg/L	6.6 μg/L
Andrew Bay and St. Joseph			
Bay	0.252 / ACM		
3. ICW W between Roberts	0.253 mg/L as AGM	0.59 mg/L as AGM	$4.0 \mu\text{g/L}$ as AGM
Bay and Lemon Bay	0.045		
4. Central Broward County	0.045 mg/L as AGM	0.80 mg/L as AGM	$2.7 \mu\text{g/L}$ as AGM
ICWW	$0.050 \text{ mg/} \approx \Lambda CM$	0.70 mg/L og ACM	20 wall as ACM
JCWW	0.059 mg/L as AGM	0.79 mg/L as AGM	$5.0 \mu\text{g/L}$ as AGM
6 North Central Broward	$0.048 \mathrm{mg/L}$ as AGM	0.88 mg/L as AGM	3 3 ug/L as AGM
County ICWW	0.040 mg/L as AGW	0.00 mg/L as AOW	$5.5 \mu g/L$ as AOM
7 South Broward County	0.043  mg/L as AGM	$0.70 \mathrm{mg/L}$ as AGM	20ug/Las AGM
ICWW			2.0 µg/L us richt
8 Palm Beach County	0.146 mg/L	1 17 mg/L	134µg/L
ICWW		1.17 mg/L	15.1 µg/2
9. ICWW between North	0.035 mg/L as AGM	0.66 mg/L as AGM	4.7 ug/L as AGM
Lake Worth Lagoon and			
Lower Loxahatchee River			
10. ICWW Palm Coast	73.142 kg/year	798.913 kg/year	4.5 ug/L as annual mean
11. ICWW from North	0.191 mg/L as AGM	1.27 mg/L	10.2 µg/L
Tolomato River to St.		e	
Johns River			
(z) St. Lucie Estuary	For estuary segments with criteria expre	ssed as annual geometric means	s (AGM), the values shall not be
	exceeded more than once in a three year	r period. For criteria expressed	as long-term averages, the long-
	term average shall be based on data from	the most recent seven-year period	and shall not be exceeded.
1. St. Lucie Estuary	See subsection 62-304.705(1), F.A.C.	See subsection 62-	5.9 µg/L as AGM

		304.705(1), F.A.C.	
2. Upper North Fork St.	See subsection 62-304.705(2), F.A.C.	See subsection 62-	6.7 µg/L as AGM
Lucie River		304.705(2), F.A.C.	10
3. Lower North Fork St.	See subsection 62-304.705(3), F.A.C.	See subsection 62-	7.4 µg/L as AGM
Lucie River		304.705(3), F.A.C.	10
4. Lower South Fork St.	See subsection 62-304.705(6), F.A.C.	See subsection 62-	6.7 µg/L as AGM
Lucie River		304.705(6), F.A.C.	10
5. Upper South Fork St.	See subsection 62-304.705(7), F.A.C.	See subsection 62-	5.0 µg/L as AGM
Lucie River		304.705(7), F.A.C.	10
6. Manatee Creek	0.081 mg/L as long-term average	0.72 mg/L as long-term	5.9 ug/L as AGM
		average	10
(aa) Indian River Lagoon,	For estuary segments with criteria expre	essed as annual geometric means	s (AGM), the values shall not be
Banana River Lagoon,	exceeded more than once in a three yea	r period. For all other estuary s	egments, the criteria shall not be
and Mosquito Lagoon	exceeded in more than 10 percent of the	measurements and shall be ass	essed over the most recent seven
	year period.		
1. Indian River Lagoon	0.021 mg/L as AGM	0.49 mg/L as AGM	2.0 µg/L as AGM
between Loxahatchee River		C C	
up to and including Hobe			
Sound			
2. Indian River Lagoon	0.060 mg/L as AGM	0.63 mg/L as AGM	6.9 µg/L
between Hobe Sound and		8	1.6
St. Lucie			
3. Indian River Lagoon	0.070 mg/L as AGM	0.72 mg/L as AGM	4.7 µg/L as AGM
from St. Lucie Estuary to			
Ft. Pierce Inlet			
4. Indian River Lagoon	0.070 mg/L as AGM	0.72 mg/L as AGM	4.7 ug/L as AGM
from Ft. Pierce Inlet to			
Indian River County Line			
5. Central Indian River	See subsections 62-304.520(7) and (8).	See subsections 62-	5.9 ug/L as AGM
Lagoon	F.A.C.	304.520(7) and (8), F.A.C.	
6. North Indian River	See subsections 62-304.520(3)-(6),	See subsections 62-	6.4 µg/L as AGM
Lagoon	F.A.C.	304.520(3)-(6), F.A.C.	10
7. Sebastian River Estuary	63.991 pounds/year, not to be exceeded	323,382 pounds/year, not to	5.9 ug/L as AGM
, , , , , , , , , , , , , , , , , , ,	in any year	be exceeded in any year	
8. Banana River Lagoon	See subsections 62-304.520(9) and	See subsections 62-	7.3 ug/L as AGM
	(10), F.A.C.	304.520(9) and (10), F.A.C.	10
9. Newfound Harbor	See subsection 62-304.520(11),	See subsection 62-	7.3 μg/L as AGM
	F.A.C.	304.520(11), F.A.C.	• 5
10. Sykes Creek Estuary	See subsection 62-304.520(13), F.A.C.	See subsection 62-	7.3 ug/L as AGM
		304.520(13), F.A.C.	
11. Mosquito Lagoon: Oak	0.034 mg/L as AGM	1.14 mg/L as AGM	2.5 ug/L as AGM
Hill to the Southern			
Terminus			
12. Mosquito Lagoon:	0.048 mg/L as AGM	0.65 mg/L as AGM	3.4 ug/L as AGM
Edgewater to Oak Hill			rø
13. Mosquito Lagoon:	0.049 mg/L as AGM	0.51 mg/L as AGM	4.0 ug/L as AGM
Ponce de Leon to			
Edgewater			

(bb) Lower St. Johns River and Tributaries (predominantly marine)	For estuary segments with criteria expressed as annual geometric means (AGM), the values shall not be exceeded more than once in a three year period. For criteria expressed as the long-term average of annual means, the long-term average shall be based on data from the most recent seven-year period and shall not be exceeded.		
Lower St. Johns River and	722,834 kilograms/year	See subsection 62-	5.4 $\mu$ g/L as long-term average
Tributaries (predominantly		304.415(2), F.A.C.	of annual means
marine)			
(cc) St. Marys River	For estuary segments with criteria expressed as annual geometric means (AGM), the values shall not be exceeded more than once in a three year period. For all other estuary segments, the criteria shall not be exceeded in more than 10 percent of the measurements and shall be assessed over the most recent seven year period.		
1. Lower St. Marys River	0.181 mg/L	0.77 mg/L as AGM	12.9 μg/L
2. Middle St. Marys River	0.113 mg/L as AGM	1.12 mg/L as AGM	8.0 µg/L
3. Upper St. Marys River	0.093 mg/L as AGM	1.35 mg/L as AGM	3.0 µg/L as AGM

(2) Criteria for chlorophyll a in open ocean coastal waters, derived from satellite remote sensing techniques, are provided in the table below. In each coastal segment specified in the Map of Florida Coastal Segments, dated May 13, 2013 (http://www.flrules.org/Gateway/reference.asp?No=Ref-03017), which is incorporated by reference herein, the Annual Geometric Mean remotely sensed chlorophyll a value, calculated excluding Karenia brevis blooms ( $\geq$ 50,000 cells/L), shall not be exceeded more than once in a three year period. The annual geometric means provided in the table below are based on measurements using the SeaWiFS satellite. Achievement of these criteria shall be assessed only by using satellite remote sensing data that are processed in a manner consistent with the derivation of the criteria. Data selection and preparation shall be consistent with the process described in Section 1.4.3 and Section 1.4.4, pages 14 through 17, in the report titled "Technical Support Document for U.S. EPA's Proposed Rule for Numeric Nutrient Criteria for Florida's Estuaries, Coastal Waters, and South Florida Inland Flowing Waters, Volume 2: Coastal Waters," U.S. Environmental Protection November 2012 Agency, 30. (http://www.flrules.org/Gateway/reference.asp?No=Ref-03018), the specified pages of which are incorporated by reference herein. If MODIS or MERIS satellite data are used, the data shall be normalized using the standardization factors provided in the table below, consistent with the process described in Section 1.6.3, pages 26 through 33 (http://www.flrules.org/Gateway/reference.asp?No=Ref-03019), in the above referenced EPA document, the specified pages of which are incorporated herein. A copy of the Map of Florida Coastal Segments and the referenced pages from EPA's document above are available by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.

Coastal Segment	Annual Geometric Mean Remotely Sensed Chlorophyll <i>a</i>	MODIS Standardization Factor	MERIS Standardization Factor
1	2.45	0.54	-0.71
2	2.65	0.99	-0.07
3	1.48	0.41	-0.22
4	1.20	0.26	-0.30
5	1.09	0.15	-0.28
6	1.07	0.29	-0.01
7	1.17	0.33	-0.02
8	1.27	0.38	-0.05
9	1.09	0.20	-0.07
10	1.13	0.41	-0.07
11	1.14	0.31	-0.05
12	1.21	0.41	-0.05
13	1.53	0.50	-0.13
14	1.80	0.69	0.01
15	2.80	0.68	0.58
16	2.49	-0.14	0.27
17	3.57	0.08	1.41

18	5.62	0.50	0.03
19	4.90	0.50	0.31
20	4.33	-0.02	-0.69
21	4.06	-0.63	-1.09
22	4.54	-0.46	-0.17
23	3.40	-1.21	-0.67
24	3.41	-2.37	0.01
25	3.11	-2.84	0.05
26	3.00	-4.16	-0.36
27	3.05	-1 77	-0.81
28	3 41	-2.13	-0.61
29	4 55	-0.83	-0.74
30	4 32	-0.74	-0.04
31	3 77	-0.29	-0.90
32	4 30	0.17	-0.47
32	5.98	0.10	0.80
3/	4.63	-0.77	-0.32
35	4.05	0.42	0.83
37	1.01	0.42	-0.85
38	0.26	0.04	0.03
30	0.20	-0.04	-0.03
40	0.27	-0.02	0.00
40	0.23	-0.05	-0.01
41	0.21	-0.00	-0.01
42	0.21	-0.03	0.03
45	0.21	-0.02	0.04
44	0.20	-0.02	0.01
43	0.21	-0.04	0.02
40	0.20	-0.03	-0.01
47	0.36	-0.10	0.03
48	1.09	0.05	0.09
49	1.40	0.39	0.30
50	1.85	0.22	0.32
51	1.72	0.23	0.51
52	1.73	0.05	0.58
53	1.8/	0.00	0.47
54	1.00	-0.13	0.31
55	1.60	0.18	0.71
56	2.12	0.11	0.39
57	2.83	0.44	0.84
58	2.63	0.09	0.40
59	2.34	0.06	0.33
60	2.17	0.07	0.29
61	2.01	-0.20	-0.06
62	1.93	0.18	-0.11
63	1.90	-0.69	-0.20
64	2.13	-0.79	-0.20
65	1.96	-0.72	-0.13
66	1.95	-0.85	-0.40
67	2.06	-0.33	-0.53
68	2.51	-0.47	-0.08
69	2.86	-0.60	-0.22
70	2.88	-1.39	-0.32
71	3.62	-2.00	-0.38

72	3.80	-1.38	-0.40
73	3.94	-0.28	-0.49
74	4.36	-0.16	-1.17

(3) Estuarine and marine areas for the estuaries listed in subsection 62-302.532(1), F.A.C., are delineated in the maps of the Florida Estuary Nutrient Regions, dated October 2014 and October 2015 (<u>http://www.flrules.org/Gateway/reference.asp?No=Ref-06050</u>), which are incorporated by reference herein. Copies of these maps may be obtained by writing to the Florida Department of Environmental Protection, Water Quality Standards Program, 2600 Blair Stone Road, MS #6511, Tallahassee, FL 32399-2400.

(4) To calculate an annual geometric or arithmetic mean for TN, TP, or chlorophyll *a*, there shall be at least four temporally-independent samples per year with at least one sample taken between May 1 and September 30 and at least one sample taken during the other months of the calendar year. To be treated as temporally-independent, samples must be taken at least one week apart.

*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 7-3-12, Amended 12-20-12, 8-1-13, 8-20-13, 6-7-15, 2-17-16. **Editorial Note:** Paragraphs 62-302.532(1)(a)-(j) became effective on 7-3-12, and paragraphs 62-302.532(1)(k)-(p) became effective on 12-20-12, 20 days after filing the rule certification packages for these numeric nutrient criteria. In accordance with Section 4 of 2013-71, Laws of Florida, and subsection 62-302.531(9), F.A.C., paragraphs 62-302.532(1)(q)-(w), subsections 62-302.532(2) and (4), and the maps delineating these Florida Estuary Nutrient Regions in subsection 62-302.532(3) will become effective upon approval by EPA in their entirety, conclusion of rulemaking by EPA to repeal its federal numeric nutrient criterion for Florida, and EPA's determination that Florida's rules address its January 2009 determination that numeric nutrient criteria are needed in Florida.