

**4.5 Nonconventional Pollutants (Continued)**

Pollutants of Concern	Basis
Total Nitrogen (TN), Total Kjeldahl Nitrogen (TKN), Organic Nitrogen, Nitrate-Nitrite	<p>Discharges of total nitrogen directly to or within the watershed upstream from waterbodies with total nitrogen water quality standards must undergo an analysis to determine if the discharge has the reasonable potential to cause or contribute to instream water quality standard violations.</p>
	<p>Based on the pollutant being present in the wastestream, EPD has identified total nitrogen as a pollutant of concern for the following: POTWs, Private and Institutional Developments, CSO Control Facilities, and applicable Non POTWs. Monitoring for TKN, organic nitrogen, and nitrate-nitrite has been included in the permit to calculate total nitrogen, quantify nutrient loadings in the Suwannee River Basin, and provide information for further analyses and development of appropriate numeric or narrative effluent limits.</p>
	<p>Total nitrogen is the sum of all nitrogen forms or <math>TN = TKN + \text{nitrite} + \text{nitrate}</math>.</p>
	<p>Organic nitrogen, as N = <math>TKN - \text{ammonia, as N}</math>.</p>
	<p>Ammonia, organic nitrogen, nitrate-nitrite, and TKN must be analyzed or calculated from the same sample to correctly calculate total nitrogen</p>
	<p>A monthly average total nitrogen limit of 10 mg/L has been included in the permit. The proposed limit was developed to meet the nutrient threshold criteria in Florida Regulations, Chapter 62:302.531: Numeric Interpretations of Narrative Nutrient Criteria and to protect downstream uses.</p>
	<p>A compliance schedule to meet the new limit has been included in the permit.</p>