

#### 4.5 Nonconventional Pollutants

Pollutants of Concern	Basis
Total Residual Chlorine (TRC)	<p>A daily maximum TRC limit of 0.01 mg/L has been included in the draft permit. The proposed limit has been determined using the US EPA's chronic TRC criterion of 11 µg/L in the receiving stream after dilution. Refer to Section 4.7.7 below for calculations.</p> <p>Facility is equipped with a UV disinfection system; therefore, monitoring requirements and effluent limitations only apply when chlorine is in use at the facility.</p>
Dissolved Oxygen (DO)	<p>A new daily minimum DO limit of 5.0 mg/L has been included in the draft permit. According to the steady-state dissolved oxygen Georgia DOSAG model, a minimum effluent DO of 5.0 mg/L is protective of the instream Water Quality Standard for dissolved oxygen described in Section 3.1 above.</p> <p>A review of Discharge Monitoring Report data indicates that the plant is able to consistently meet the proposed limit; therefore, a compliance schedule for DO has not been included in the draft permit.</p>
Ammonia (NH <sub>3</sub> )	<p>The monthly average ammonia limit was decreased from 10 mg/L to 1.0 mg/L in the draft permit. According to the steady-state dissolved oxygen Georgia DOSAG model, the proposed limit, when combined with the BOD<sub>5</sub> and dissolved oxygen limit (Refer to Section 4.4 above), is also protective of the instream Water Quality Standard for dissolved oxygen described in Section 3.1 above.</p> <p>The proposed limit is also in accordance with EPD's <i>NPDES Permitting Strategy for Addressing Ammonia Toxicity, 2017</i>.</p> <p>A compliance schedule to meet the more stringent limit has been included in the draft permit.</p>