

Figure: 30 TAC §217.154(b)(2)

Table F.1. - Design Organic Loading Rates for Sizing Aeration Basins Based on Traditional Design Methods

Process	Applicable Permit Effluent Sets Concentration milligrams per liter (mg/l)			Maximum Organic Loading Rate Pounds BOD ₅ /day/1,000 cubic feet (lbs/day/1,000cf)
	Five-day Biochemical Oxygen Demand (BOD ₅)	Total Suspended Solids (TSS)	Ammonia Nitrogen	
Conventional activated sludge process without nitrification	10	15	NA	45
	20	20	NA	
Conventional activated sludge process with nitrification when reactor temperatures exceed 15° C	10	15	3, 2, or 1	35
Conventional activated sludge process with nitrification when reactor temperatures are 13° to 15° C	10	15	3, 2, or 1	25
Conventional activated sludge process with nitrification when reactor temperatures are 10° to 12° C	10	15	3, 2, or 1	20
Extended aeration basins including oxidation ditches (mean cell residence time over 20 days)	10	15	3, 2, or 1	15