Tualatin Subbasin TMDL

Appendix 3-A
Changes to the 2001 Dissolved Oxygen TMDL for the Tualatin Basin

State of Oregon
Department of
Environmental
Quality

This amendment outlines specific changes to the 2001 Dissolved Oxygen TMDL for the Tualatin Basin. The original 2001 version of the TMDL is provided here for ease in comparing the changes above to the original document. The only change in this amendment was made to Table 36 of the 2001 TMDL, in order to include the discharge sites at Forest Grove and Hillsboro in the Waste Load Allocation Table. Here is the original version of Table 36 from the 2001 TMDL.

Table 36. Ammonia Design Concentrations for Rock Creek, the Tualatin River upstream of Rock Creek, and the Unified Sewerage Agency's Rock Creek WWTP

Seasonal Period	Loading Capacity Design Conc.	Margin of Safety (5%)	Tualatin River upstream of Rock Cr Load Allocation Design Conc.	Rock Cr. Load Allocation Design Conc.	Rock Cr. WWTP Waste Load Allocation Design Conc.
	Given as Design Concentration (mg NH_3-N/L)				
May	1.25	0.06	0.05	0.015	1.12
June	1.31	0.07	0.05	0.015	1.18
July	0.68	0.03	0.035	0.0125	0.60
August	0.29	0.01	0.03	0.01	0.24
Sept.-- Nov. 15	0.195	[1]	0.03	0.01	0.155

[1]No margin of safety as a portion of the loading capacity was allocated for this period. See discussion above and in Section 4.3.11.

The original text for the example calculation on page 123 is:

In order to determine the daily loading capacity in pounds per day, the appropriate design concentration from either **Table 35 or Table 36** would be multiplied by the monthly median flow at Farmington and a conversion factor (5.39 [lb./day]/[mg/L][cfs]. For example, if the median monthly flow at Farmington for July is 150 cfs, then the maximum daily wasteload allocation for Rock Creek WWTP in pounds per day (for July) would be:

Example
Monthly mean wasteload allocation for Rock Creek WWTP
(Given conditions above) =
0.60(mg NH_3-N/L) x 150 (cfs) x 5.39 (lb./day)/(mg/L)(cfs) = 485 lb. NH_3-N/day