Assumed Surface Runoff Concentrations, Before Attenuation
Concentrations in ppm

Variable	**Land Use**			
	Single Fam	**Multi-Fam**	**Commercial**	**Open**

USEPA (1993)

Variable	Single Fam	Multi-Fam	Commercial	Open
tp	1.76	2.68	0.62	0.19
orthop	0.31	0.38	0.28	0.16
tn	1.5	1.8	1.6	0.6
noxn	0.75	0.9	0.8	0.3
tkn	0.75	0.9	0.8	0.3
tss	400	600	900	200

Whalen & Cullum(1988) - NURP Florida Sites

Variable	Single Fam	Multi-Fam	Commercial	Open
tp	0.62	0.62	0.29	0.19
orthop	0.21	0.21	0.15	0.16
tn	2.03	2.03	2.3	0.6
noxn	1.8	1.8	0.8	0.3
tkn	0.23	0.23	1.5	0.3
tss	228	228	169	200

Used in Load Calculations

Variable	Single Fam	Multi-Fam	Commercial	Open
tp	0.62	0.62	0.29	0.19
orthop	0.21	0.21	0.15	0.16
tn	2.03	2.03	2.3	0.6
noxn	1.8	1.8	0.8	0.3
tkn	0.23	0.23	1.5	0.3
tss	228	228	169	200

Attenuation Factors = Export Conc / Site Runoff Conc.

Account for Losses in Transport (swales, infiltration, other bmp's, etc.)

Variables	Infiltration BMP Efficiency	Assumed Percent Applied	Net Efficiency	Attenuation Factor
tp,orthop	65%	50%	33%	68%
tn,noxn	60%	50%	30%	70%
tss	75%	50%	38%	63%

Infiltration BMP efficiencies = average values from USEPA (1993b)

Input values are red (other cells are calculated).