WORKSHEET 3.06 – COMPLIANCE

Determine the pollutant removal requirement (RR) as calculated on the appropriate development situation worksheet (Worksheet 3.2, Worksheet 3.3, Worksheet 3.4, or Worksheet 3.5).

RR	=	pollutant removal requirement
	=	_____ lbs/yr

Calculate the pollutant loading to the BMP ($L_{ON\text{-}SITE}$) from on-site areas.

$A_{ON\text{-}SITE}$	=	the contributing on-site drainage area to the BMP
	=	_____ acres
$A_{ON\text{-}SITE}$	=	the amount of on-site impervious cover in the contributing drainage area
	=	_____ acres
$I_{ON\text{-}SITE}$	=	the percentage of on-site impervious cover for the contributing drainage area to the BMP.
	=	($A_{ON\text{-}SITE}$ / $A_{ON\text{-}SITE}$) x 100
	=	(_____ / _____) x 100
	=	_____ %
$L_{ON\text{-}SITE}$	=	the phosphorus load to the BMP.
$L_{ON\text{-}SITE}$	=	[0.05 + (0.009 x $I_{ON\text{-}SITE}$)] x 2.28 x $A_{ON\text{-}SITE}$
	=	[0.05 + (0.009 x _____)] x 2.28 x _____
	=	_____ pounds per year

Calculate the pollutant loading to the BMP ($L_{OFF\text{-}SITE}$) from off-site areas.

$A_{OFF\text{-}SITE}$	=	the contributing off-site drainage area to the BMP
	=	_____ acres
$I_{OFF\text{-}SITE}$	=	16% *(16% shall be used for all off-site drainage areas)*
$L_{OFF\text{-}SITE}$	=	the off-site phosphorus load to the BMP.
	=	[0.05 + (0.009 x $I_{OFF\text{-}SITE}$)] x 2.28 x $A_{OFF\text{-}SITE}$
	=	[0.05 + (0.009 x 16)] x 2.28 x _____
	=	_____ pounds per year

Calculate the total pollutant loading to the BMP (L_{TOTAL}).

L_{TOTAL}	=	$L_{ON\text{-}SITE}$ + $L_{OFF\text{-}SITE}$
	=	_____ + _____
	=	_____ pounds per year

Calculate the total pollutant load removed by the proposed BMP(s) ($L_{REMOVED\ BY\ BMP}$). Acceptable BMP types and associated removal efficiencies are listed in Section 3.6.1 of this Manual.

Selected BMP Type	Removal Efficiency	X	L_{TOTAL}	=	$L_{REMOVED\ BY\ BMP(S)}$ (lbs/yr)
		X		=	
		X		=	
		X		=	
		X		=	
		X		=	
TOTAL $L_{REMOVED\ BY\ BMP(S)}$					

For BMPs in series, the L_{TOTAL} treated by the second basin is the L_{TOTAL} from the first basin minus the load removed by the first BMP. When the overall removal efficiency for BMPs in series exceeds 65%, the BMPs will be treated as one BMP with a removal efficiency of 65% on the compliance worksheet.

Calculate the pollutant load removed by the Stream Protection Area ($L_{REMOVED\ BY\ SPA}$) provided. In order to receive pollutant removal credit for the Stream Protection Area (SPA), the SPA must be forested in accordance with Minimum Standard 9.10 and energy dissipators (EDs) provided in accordance with Minimum Standard 9.01.

Stream Protection Area	Linear feet provided	X	Pollutant Removal (lb/yr/ft)	=	$L_{REMOVED\ BY\ SPA}$ (lbs/yr)
		X	0.00029	=	

Calculate the pollutant load removed by the energy dissipators ($L_{REMOVED\ BY\ ED}$) provided. In order to receive pollutant removal credit for the energy dissipators (EDs), the SPA must be forested in accordance with Minimum Standard 9.10 and energy dissipators provided in accordance with Minimum Standard 9.01.

Energy Dissipators	Number of Energy Dissipators	X	Pollutant Removal (lb/yr/ED)	=	$L_{REMOVED\ BY\ ED}$ (lbs/yr)
		X	0.10	=	

Calculate the total pollutant load removal achieved by the BMP(s), SPA, and EDs ($L_{REMOVED}$).

$L_{REMOVED}$ = $L_{REMOVED\ BY\ BMP(S)}$ + $L_{REMOVED\ BY\ SPA}$ + $L_{REMOVED\ BY\ ED}$
            =   _____ + _____ + _____
            =   _____ lbs/yr

If the total pollutant load removed ($L_{REMOVED}$) is greater than or equal to the pollutant removal requirement (RR), the proposed project complies with the pollutant load reduction criteria.

$$L_{REMOVED} \geq RR$$
$$\underline{\hspace{3cm}} \geq \underline{\hspace{3cm}}$$