

Water quality management assessment - CIRIA SuDS Manual 'Simplified Index Approach'

Pollution hazard indices from Table 26.2 'Pollution hazard indices for different land use classifications'

Mitigation indices from Table 26.3 'Indicative SuDS mitigation indices for discharges to surface waters'



Hollingworth Road
Littleborough
HYD760

																	Treatment Stage and Component												Assessment	Acceptable
Description of area being served				Ref. no.	Category	Pollution type		Hazard index	Primary	Secondary		Tertiary (Stage A)		Tertiary (Stage B)		Tertiary (Stage C)		Tertiary (Stage D)				Total SuDS mitigation index		Assessment criteria	Acceptable (y/n)					
EASTERN DEVELOPMENT PARCEL	Roof area - served by single detention basin				001	Residential roofs	Pollution hazard level		Very Low	Detention basin													0.50		0.20	y				
							Total suspended solids (TSS)		0.2	0.50													0.50		0.20	y				
							Metals		0.2	0.50													0.50		0.20	y				
							Hydrocarbons		0.05	0.60													0.60		0.05	y				
	Roof area - served by two detention basins					Residential roofs	Pollution hazard level		Very Low	Detention basin	Detention basin	(factored by 0.5)												0.75		0.20	y			
							Total suspended solids (TSS)		0.2	0.50	0.50	0.25		0.25		0.25								0.75		0.20	y			
							Metals		0.2	0.50	0.50	0.50		0.25		0.25								0.75		0.20	y			
							Hydrocarbons		0.05	0.60	0.60	0.30		0.30		0.30								0.90		0.05	y			
	Roof area - served by three detention basins					Residential roofs	Pollution hazard level		Very Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)								1.00		0.20	y				
							Total suspended solids (TSS)		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25						1.00		0.20	y			
							Metals		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25						1.00		0.20	y			
							Hydrocarbons		0.05	0.60	0.60	0.30		0.60	0.30		0.60	0.30						1.20		0.05	y			
	Roof area - served by four detention basins					Residential roofs	Pollution hazard level		Very Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)						1.25		0.20	y			
							Total suspended solids (TSS)		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.25						1.25		0.20	y	
							Metals		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.25						1.25		0.20	y	
							Hydrocarbons		0.05	0.60	0.60	0.30		0.60	0.30		0.60	0.30								1.50		0.05	y	
	Roof area - served by five detention basins					Residential roofs	Pollution hazard level		Very Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)				1.50		0.20	y		
							Total suspended solids (TSS)		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25						1.50		0.20	y
						Metals		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25						1.50		0.20	y	
						Hydrocarbons		0.05	0.60	0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30						1.80		0.05	y	
Roof area - served by six detention basins					Residential roofs	Pollution hazard level		Very Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		1.75		0.20	y		
						Total suspended solids (TSS)		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25		1.75		0.20	y		
						Metals		0.2	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25		1.75		0.20	y		
						Hydrocarbons		0.05	0.60	0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30		2.10		0.05	y		
Impermeable access roads - served by single detention basin					Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non residential car parking with infrequent change (eg schools, offices) > ie <300 traffic movements per day	Pollution hazard level		Low	Detention basin															0.50		0.50	y			
						Total suspended solids (TSS)		0.5	0.50															0.50		0.40	y			
						Metals		0.4	0.50															0.50		0.40	y			
						Hydrocarbons		0.4	0.60															0.60		0.40	y			
Impermeable access roads - served by two detention basins					Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non residential car parking with infrequent change (eg schools, offices) > ie <300 traffic movements per day	Pollution hazard level		Low	Detention basin	Detention basin	(factored by 0.5)												0.75		0.50	y				
						Total suspended solids (TSS)		0.5	0.50	0.50	0.25												0.75		0.40	y				
						Metals		0.4	0.50	0.50	0.25												0.75		0.40	y				
						Hydrocarbons		0.4	0.60	0.60	0.30												0.90		0.40	y				
Impermeable access roads - served by three detention basins					Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non residential car parking with infrequent change (eg schools, offices) > ie <300 traffic movements per day	Pollution hazard level		Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)										1.00		0.50	y			
						Total suspended solids (TSS)		0.5	0.50	0.50	0.25		0.50	0.25										1.00		0.40	y			
						Metals		0.4	0.50	0.50	0.25		0.50	0.25										1.00		0.40	y			
						Hydrocarbons		0.4	0.60	0.60	0.30		0.60	0.30										1.20		0.40	y			
Impermeable access roads - served by four detention basins					Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non residential car parking with infrequent change (eg schools, offices) > ie <300 traffic movements per day	Pollution hazard level		Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)				1.25		0.50	y			
						Total suspended solids (TSS)		0.5	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.25		0.40	y			
						Metals		0.4	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.25		0.40	y			
						Hydrocarbons		0.4	0.60	0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30				1.50		0.40	y			
Impermeable access roads - served by five detention basins					Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non residential car parking with infrequent change (eg schools, offices) > ie <300 traffic movements per day	Pollution hazard level		Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)				1.50		0.50	y			
						Total suspended solids (TSS)		0.5	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.50		0.40	y			
						Metals		0.4	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.50		0.40	y			
						Hydrocarbons		0.4	0.60	0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30				1.80		0.40	y			
Impermeable access roads - served by six detention basins					Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non residential car parking with infrequent change (eg schools, offices) > ie <300 traffic movements per day	Pollution hazard level		Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)				1.75		0.50	y			
						Total suspended solids (TSS)		0.5	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.75		0.40	y			
						Metals		0.4	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.75		0.40	y			
						Hydrocarbons		0.4	0.60	0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30				2.10		0.40	y			
School Roof area - served by six detention basins					Other roofs (typically commercial/industrial roofs)	Pollution hazard level		Low	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)				1.75		0.20	y			
						Total suspended solids (TSS)		0.3	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25										
						Metals		0.2 (up to 0.8 where there is potential for metals to leach from roof)	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.75		0.20	y			
						Hydrocarbons		0.05	0.60	0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30				2.10		0.05	y			
School Car Parking/access area - served by six detention basins					Commercial yard and delivery areas, non-residential car parking with frequent change (eg hospitals, retail), all roads except low traffic roads and trunk roads/motorways	Pollution hazard level		Medium	Detention basin	Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)		Detention basin	(factored by 0.5)				1.75		0.70	y			
						Total suspended solids (TSS)		0.7	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.75		0.60	y			
						Metals		0.6	0.50	0.50	0.25		0.50	0.25		0.50	0.25		0.50	0.25				1.75		0.60	y			
						Hydrocarbons		0.7	0.60	0.60	0.30		0.60	0.30		0.60	0.30		0.60	0.30				2.10		0.70	y			
Roof area - served by single detention basin					Residential roofs	Pollution hazard level		Very Low	Detention basin															0.50		0.20	y			
						Total suspended solids (TSS)		0.2	0.50															0.50		0.20	y			
						Metals		0.2	0.50															0.50		0.20	y			
						Hydrocarbons		0.05	0.60															0.60		0.05	y			
Impermeable access roads - served by single detention basin					Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non residential car parking with infrequent change (eg schools, offices) > ie <300 traffic movements per day	Pollution hazard level		Low	Detention basin															0.50		0.50	y			
						Total suspended solids (TSS)		0.5	0.50															0.50		0.40	y			