
APPENDIX A

BMP GUIDELINES AND BMP SUGGESTED USES MATRIX

EROSION PREVENTION BMP SUGGESTED USES MATRIX

BMP	Processed Based Tools	Design Software	Design Aids	Slope Protection	Waterway Protection	Surface Protection	Concentrated Flows	Large Flat Areas	Stock Pile Areas	Borrow Areas	Adjacent Property Impacts
Erosion Prevention Measures				X	X	X	X	X	X	X	X
Dust Control	NO	NO	NO			X					X
Mulching	NO	NO	NO	X		X		X	X	X	
Blown Straw	NO	NO	NO	X		X		X	X	X	
Hydro-Mulching	NO	NO	NO	X		X		X	X	X	
Wood Chips	NO	NO	NO			X		X	X	X	
Composting	NO	NO	NO			X		X	X	X	
Bonded Fiber Matrix (BFM)	NO	NO	NO	X		X		X	X	X	
Flexible Growth Media (FGM)	NO	NO	NO	X		X		X	X	X	
Erosion Control Blankets	YES	YES	NO	X	X	X	X		X	X	
Turf Reinforcement Mats	YES	YES	NO	X	X	X	X		X	X	
Outlet Protection	YES	NO	YES		X		X				X

RUNOFF CONTROL AND CONVEYANCE BMP SUGGESTED USES MATRIX

BMP	Processed Based Tools	Design Software	Design Aids	Slope Protection	Waterway Protection	Surface Protection	Concentrated Flows	Large Flat Areas	Stock Pile Areas	Borrow Areas	Adjacent Property Impact
Runoff Control Structures				X	X	X	X	X	X	X	X
Diversion Ditches/Dikes	YES	YES	NO	X		X			X	X	X
Temporary Stream Crossing	YES	YES	NO		X	X					X
Pipe Slope Drains	YES	YES	NO	X		X				X	X
Construction De-watering	YES	NO	YES		X		X				X
Drainage Swales	YES	YES	NO	X		X			X	X	X
Level Spreader	YES	YES	NO			X					X
Subsurface Drains	YES	YES	NO			X		X			

SEDIMENT CONTROL BMP SUGGESTED USES MATRIX

BMP	Processed Based Tools	Design Software	Design Aids	Slope Protection	Waterway Protection	Surface Protection	Concentrated Flows	Large Flat Areas	Stock Pile Areas	Borrow Areas	Adjacent Property Impact
Sediment Control Structures				X	X		X	X	X	X	X
Sediment Basin	YES	YES	YES		X		X				X
Sediment Trap	YES	YES	YES		X		X				X
Silt Fence	YES	YES	YES	X	X			X	X	X	X
Ditch Checks	YES	NO	YES		X		X				X
Stabilized Construction Entrance	NO	NO	NO								X
Storm Drain Inlet Protection	YES	NO	YES		X		X				X
Rock Sediment Dike	YES	YES	YES		X		X				X
Vegetated Filter Strips (VFS)	YES	YES	NO		X			X			X
Sediment Tubes	NO	NO	NO	X	X		X				X

STORM WATER QUALITY BMP SUGGESTED USES MATRIX

BMP	Land Requirement	Single Family	Multi Family	Low Density Commercial	High Density Commercial	Low Density Industrial	High Density Industrial	Hot Spot Treatment
Open Vegetated Conveyances	MEDIUM	X		X		X		
Stream Buffers	HIGH	X	X	X	X	X	X	
Porous Pavement	HIGH	X	X	X		X		
Vegetated Filter Strips	MEDIUM	X	X	X				
Infiltration Trenches	MEDIUM	X	X	X	X	X	X	
Bioretention Areas	MEDIUM	X	X	X	X	X	X	X
Enhanced Swales	MEDIUM	X	X	X		X		X
Manufactured Catch Basin Devices	LOW			X	X	X	X	X
Manufactured Separator Devices	LOW			X	X	X	X	X
Underground Detention Structures	LOW			X	X	X	X	X
Wet Storm Water Ponds	VERY HIGH	X	X	X	X	X	X	X

STORM WATER QUALITY BMP CHARACTERISTICS MATRIX

BMP	Maintenance Burden	Costs to Drainage Area	Aesthetically Pleasing	Provide Habitat	Drainage Area (Acres)	Soils
Open Vegetated Conveyances	MEDIUM	MEDIUM	MEDIUM	LOW	5 MAX	NO REQUIREMENT
Stream Buffers	LOW	LOW	HIGH	HIGH	VARIES	NO REQUIREMENT
Porous Pavement	HIGH	HIGH	LOW	NONE	VARIES	"A" AND "B" SOILS PREFERRED INFILTRATION RATE > 0.5 IN/HR
Vegetated Filter Strips	LOW	LOW	MEDIUM	MEDIUM	2 MAX	NO REQUIREMENT
Infiltration Trenches	MEDIUM	MEDIUM	LOW	NONE	5 MAX	"A" AND "B" SOILS PREFERRED INFILTRATION RATE > 0.5 IN/HR
Bioretention Areas	MEDIUM	MEDIUM	MEDIUM	MEDIUM	5 MAX	NO REQUIREMENT
Enhanced Swales	LOW	MEDIUM	LOW	LOW	5 MAX	PERMEABLE SOIL "A" AND "B" SOILS PREFERRED
Manufactured Catch Basin Devices	HIGH	LOW	HIGH/HIDDEN	NONE	0-1	NO REQUIREMENT
Manufactured Separator Devices	HIGH	HIGH	HIGH/HIDDEN	NONE	VARIES	NO REQUIREMENT
Underground Detention Structures	HIGH	HIGH	HIGH/HIDDEN	NONE	VARIES	NO REQUIREMENT
Wet Storm Water Pond	LOW	LOW	LOW-HIGH	HIGH	10 MIN 25 PREFER	HSG "A" MAY REQUIRE POND LINER, HSG "B" MAY REQUIRE INFILTRATION TESTING

STORM WATER QUALITY BMP STORM WATER TREATMENT MATRIX

BMP	Water Quantity	Water Quality	TSS Removal	Nutrient Removal	Metal Removal	Bacterial Removal	Pre-Treatment
Open Vegetated Conveyances		X	MEDIUM	LOW	LOW	LOW	X
Stream Buffers		X	HIGH	HIGH	HIGH	HIGH	X
Porous Pavement	X	X	NO DATA	MEDIUM	HIGH	LOW	X
Vegetated Filter Strips		X	MEDIUM	LOW	LOW	LOW	X
Infiltration Trenches	X	X	HIGH	HIGH	HIGH	HIGH	
Bioretention Areas	X	X	HIGH	HIGH	MEDIUM	MEDIUM	
Enhanced Swales	X	X	HIGH	MEDIUM	MEDIUM	LOW	
Manufactured Catch Basin Devices		X	HIGH	LOW-HIGH	LOW-HIGH	LOW-HIGH	X
Manufactured Separator Devices		X	HIGH	LOW-HIGH	LOW-HIGH	LOW-HIGH	X
Underground Detention Structures	X	X	HIGH	LOW	LOW	LOW	
Wet Stormwater Pond	X	X	HIGH	HIGH	HIGH	HIGH	