## APPENDIX G: BMP SUITABILITY MATRIX

## **BMP SUITABILITY MATRIX**

Effectiveness level ***	Ì		Ì																		L	Land		evelo	p-	Use		
H Very Effective	Wa	ter	r Water			1						Drainage											Ov	Owner-		ment		(i.e.
M Moderately Effective	Quality		Quantity			Site Conditions						Area				Land Use							S	ship		Туре		follo
L Supports Function Not Applicable Suitability level**** 3 Well Suited to Condition 2 Moderately Suited to Condition 1 Less Suited to Condition Not Applicable	On-site	Downstream	Flow Control	Evaporation	Aquifer Recharge	Steep Slopes	High Groundwater	Shallow Bedrock	Slow Draining Soils	Expansive Clay Soils	Contaminated Soils	Rooftops	Roadways	Sidewalks	Landscapes	Single-family Residential Lot	Subdivisions &	Campuses of any land use	Commercial	Institutional	Roads and Public Right-	Unustrial	Private	Public	Retrofit	Redevelopment	New Development	Wat whic subs Drai Chal infilt
Prevent Runoff: Minimize Impervious Area BMPs		•																								<u> </u>		Flow
Share Parking Spaces BMP	М	Н	L	Μ	L	3	3	3	3	3	3		3					2	3	2		1	2	2	2	2	3	basir
Minimize Front Setbacks BMP	М	н	L	М	L	3	3	3	3	3	3		3	3		3		2		2			3	2		1	3	Land
Prevent Runoff: Limit Disturbance BMPs	-															_												nas t
Construction Sequencing BMP	H	H	L	L	L	3	3	3	3	3	3					3		3	3	3	3	3	3	3	3	3	3	Uwn
Conserve Fast(er) Draining Soils	М	Н	L	М	L	3	3	3	3	3	3				3	3		3	3	3	1	3	3	3	3	3	3	Dow
Cluster Development BMP	Н	Н	L	Н	L	3	3	3	3	3	3	3	3	3	3			3	2	2		2	3	3		1	2	rodo
Tree Protection BMP	Н	Н	L	Μ	L	3	3	3	3	3	3	2	3	3	3			3	2	2	3	2	3	3	3	2	2	Teue
Minimal Foundation BMP	L	М	Н		L	3	3	3	3	3	3	3				3		2	3	3		3	3	3		1	3	*\$03
Prevent Runoff from Landscape and Hardscape Ar	eas	-			-																							but a
Restored Soils BMP	Н	Н	L	Μ	Μ	3	3	3	3	3					3	3		3	3	3	3	2	3	3	3	3	3	** W
Tree Planting BMP	М	Н	М	Μ	Μ	3	3	3	3	3	3	1	2	2	3	2		3	1	2	2	2	3	3	3	3	3	cont
Depave Existing Pavement BMP	Μ	Н	М	Μ	Μ	3	3	3	3	3	3		2	2		2		3	2	3	2	2	3	3	3	3	2	***
Contained Planter(s) BMP	М	М	L	Н		3	3	3	3	3	3	2	3	3		3		3	3	3	2	2	3	3	3	3	2	unde
Vegetated Roofs (Green Roofs) BMP	М	М	Μ	Н		3	3	3	3	3	3	3				2		2	3	2		3	2	3	1	2	3	othe
Porous Pavement (Rainfall) BMP	Н	Н	Н		Н		1	1	3				3	3		2		2	3	3	2	2	2	3	1	1	3	"Res
Reduce Runoff from Landscape and Hardscape Are	eas																											****
Porous Pavement (Runoff) BMP	Н	Н	Н		Н		1	1	3			3	2	2		2		3	3	3	3	3	2	3	1	1	3	bv st
Infiltration Rain Garden, LID Swale, or Stormwater Planter BMP	н	н	н	м	н				2	3		3	3	3	3	3		3	3	3	2	3	3	3	3	3	3	****
Soakage Trench BMP*	Н	Н	Н		Н		1	1	2			3	3	3	3	3		3	3	3	3	3	3	3	3	3	3	5 44 41
Drywell BMP**	Н	Н	Н		Н		1	3		2		3	2	2	1	3		3	3	3	3	3	3	3	3	3	3	
WQ Conveyance Swale BMP	М	L	L	L	L	3	3	3	3	3		3	3	3	3	1		3	3	3	3	3	3	3	3	3	3	
Dispersion: Vegetated Filter Strips BMP	М	L	L	L	L		1	1	3	3		1	3	3	3	3		3	2	3	3	2	3	3	3	3	3	
Dispersion: Downspout Disconnection BMP	М	L	L	L	L		1	1	3	3		3				3		3	2	3		2	3	3	3	3	3	
Provide Minimal Water Quality Treatment of Runo	ff fro	m La	ndso	ape	& H	ards	scap	e A	rea	s:																		
Lined Rain Garden, LID Swale, or Stormwater		,		p.a		2	2	2	2-	2-	2-	2-	2-	2-	2-				2-	2-	2		2			2	2	
Planter BMP	н	L		IVI		3	3	3	3	3	3	3	3	3	3	3		3	3	3	2	3	3	3	3	3	3	
Wet, Extended Wet, and Dry Detention Ponds																												
Wet Pond	L	L	Н	Μ	L	1	3	3	3	3		2	3	3	3			3	3	3	2	3	3	3	3	3	3	
Extended Wet Pond	М	М	Н	М	L	1	3	3	3	3		2	3	3	3			3	3	3	2	3	3	3	3	3	3	
Dry Detention Pond*****	L	L	Н	L	L	3	3	3	3	3		2	3	3	3			3	3	3	2	3	3	3	3	3	3	

Table G-1. Use the BMP Suitability Matrix to identify potential BMPs in early planning. Consider printing this table out for easy reference when planning projects, and revisit it as the site plan changes.

the LID Implementation stormwater hierarchy). E ws (see Chapter 4 for ad

er Quality. Indicates whi h substantially reduce ru equent re-pollution of do nage Area. Indicates whi llenging Sites. Indicates ration of runoff is not re Control. Indicates which n (i.e. are effective for flo Use. Indicates the land been implemented in Ore ership. Indicates which ic development.

elopment Type. Indicate velopment or new development

akage trenches under pav are well suited under land Vith adaptations, drywells aminated soils. See Chap Effectiveness level assun r average conditions. W ers (e.g. any "Minimize Im tored Soils BMP") their e Suitability level accounts akeholders under averag \*\*Water quality can be a e.

Form to apply BMPs in the preferred order Brief descriptions of column headings are as Iditional information):
ich BMPs address water quality on-site and unoff volume to protect against erosion and ownstream waterways. ich BMPs can be applied to which surfaces. which BMPs are feasible at sites where ecommended. h BMPs serve as a substitute for a detention ood control). uses/zoning classifications where LID can and egon. BMPs may be used in private development or
es which BMPs may be used in a retrofit, opment.
vement are not suitable for expansive soils, dscape areas with expansive soils. Is may sometimes be used below oter 4 " <i>Drywells BMP</i> ". mes the BMP is acting as a stand alone BMP then BMPs are used in a conjunction with <i>apervious Area BMPs</i> " are combined with effectiveness tends to increase. Is for general difficulty in implementing or use ge conditions. ddressed when modified to have a vegetated