

Appendix B: BMP Evaluation Form

FACILITY ID: _____	REGION: _____ JURISDICTION: _____	DATE: ___/___/___	ASSESSED BY: _____
NAME: _____ ADDRESS: _____ PHOTO IDS: _____			HANDHELD/ GPS ID: _____
SECTION 1- BACKGROUND INFORMATION (GIS)			
BMP TYPE : <input type="checkbox"/> Water Quality Dry Pond <input type="checkbox"/> Dry Swale <input type="checkbox"/> Level Spreader <input type="checkbox"/> Unspecified Dry Pond <input type="checkbox"/> Wet Swale <input type="checkbox"/> WQ Inlet <input type="checkbox"/> Wet Pond <input type="checkbox"/> Grass Channel <input type="checkbox"/> Underground <input type="checkbox"/> Wetland <input type="checkbox"/> Dry Well <input type="checkbox"/> Proprietary Device <input type="checkbox"/> Filter (specify: _____) <input type="checkbox"/> Permeable Pavement <input type="checkbox"/> Other <input type="checkbox"/> Infiltration (specify: _____) <input type="checkbox"/> Bioretention			YEAR CONSTRUCTED: _____ OWNERSHIP <input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Unknown
SITE CHARACTERIZATION			
DRAINAGE AREA: _____ (acres) IMPERVIOUS COVER: _____ (%) Discerned from: <input type="checkbox"/> Plan <input type="checkbox"/> County Data <input type="checkbox"/> GIS <input type="checkbox"/> Field			
CONTRIBUTING DRAINAGE AREA (% land use): <i>Note – All percentages should sum up to 100%.</i> _____ Industrial _____ Commercial _____ Urban/Residential _____ Suburban/Res _____ Forested _____ Institutional _____ Golf course _____ Park _____ Crop _____ Pasture _____ Other: _____			CALCULATED WATER QUALITY VOL: _____ (ft ³)
SECTION 2- FIELD VISIT			
Rain in last 48 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No		Evidence of high water table? <input type="checkbox"/> Yes <input type="checkbox"/> No	
DESIGN ELEMENTS			
FACILITY SIZE: Length: _____ (ft) Width: _____ (ft) Surface Area: _____ (ft ²) Depth of WQ storage _____ (ft)	OBSERVED WQ STORAGE VOL: _____ (ft ³)	HYDRAULIC CONFIGURATION <input type="checkbox"/> On-line Facility <input type="checkbox"/> Off-line Facility	DESIGN STORM: <input type="checkbox"/> Water Quality <input type="checkbox"/> Flood Control <input type="checkbox"/> Channel Protection <input type="checkbox"/> Unknown
SIGNAGE (check all that apply) <input type="checkbox"/> None <input type="checkbox"/> Flood Warning <input type="checkbox"/> Stormwater Education <input type="checkbox"/> No Trespassing <input type="checkbox"/> Wildlife Habitat <input type="checkbox"/> Public Property <input type="checkbox"/> Do Not Mow <input type="checkbox"/> Other: _____			
OUTLET CHARACTERISTICS			
MEASUREMENTS: Number of Outlets : _____ Outlet Diameter: _____ (in) (up to 4 outlets) _____ (in) _____ (in) _____ (in) Outlet includes restrictor? <input type="checkbox"/> Yes <input type="checkbox"/> No	TYPE OF OUTLET: <input type="checkbox"/> N/A <input type="checkbox"/> Pipe <input type="checkbox"/> Riser <input type="checkbox"/> Weir <input type="checkbox"/> Large Storm Overflow <input type="checkbox"/> Open channel <input type="checkbox"/> Large Storm By-pass <input type="checkbox"/> Other: _____ OUTLET FEATURES: <input type="checkbox"/> N/A <input type="checkbox"/> Trash Rack <input type="checkbox"/> Pond Drain <input type="checkbox"/> Inverted outlet pipe <input type="checkbox"/> Hooded outlet <input type="checkbox"/> Multiple outlet levels <input type="checkbox"/> Anti-vortex device <input type="checkbox"/> Perforated pipe <input type="checkbox"/> Gravel Diaphragm <input type="checkbox"/> Micropool		
<input type="checkbox"/> Impoundment BMP BMP contains Emergency Spillway?: <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, type: <input type="checkbox"/> Channel <input type="checkbox"/> Riser Overflow <input type="checkbox"/> Weir <input type="checkbox"/> Other: _____	DOWNSTREAM CONDITIONS: <input type="checkbox"/> Unknown <input type="checkbox"/> Stream <input type="checkbox"/> Other <input type="checkbox"/> Closed storm sewer <input type="checkbox"/> Surface channel <input type="checkbox"/> Road ditch Active Erosion <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Trash <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Sedimentation <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Odor <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Algae <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Other WQ Problems <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe		
OUTLET CONDITIONS: Outlet Erosion <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Outlet Clogging <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Structural Problems <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe			
SOIL OR FILTER MEDIA			

PERFORMANCE

GENERAL PROBLEMS: (check all that apply)

- | | | |
|--|---|--|
| <input type="checkbox"/> Maintenance Needed | <input type="checkbox"/> Erosion at Embankments | <input type="checkbox"/> Permanent Pools not stable |
| <input type="checkbox"/> Water Bypass of Inlet | <input type="checkbox"/> Erosion within Facility | <input type="checkbox"/> Inadequate vegetation |
| <input type="checkbox"/> Water Bypass of Outlet | <input type="checkbox"/> Deposition within Facility | <input type="checkbox"/> Dead or Diseased Vegetation |
| <input type="checkbox"/> Incorrect Flow Paths | <input type="checkbox"/> Inappropriate Ponding of Water | <input type="checkbox"/> Too much vegetation/invasives |
| <input type="checkbox"/> Short-circuiting of treatment mechanism | <input type="checkbox"/> Clogged Pond Drain/Underdrain | <input type="checkbox"/> Trees on Embankment |
| <input type="checkbox"/> No or ineffective treatment | <input type="checkbox"/> Clogged Media | <input type="checkbox"/> Failing structural components |
| <input type="checkbox"/> No or ineffective pretreatment | <input type="checkbox"/> Inappropriate media material | <input type="checkbox"/> Safety issue (Note: _____) |
| <input type="checkbox"/> Others _____ | <input type="checkbox"/> Inappropriate underlying soil (infiltration) | |

- WATER QUALITY IN FACILITY:** N/A
- | | | | | |
|-----------|-------------------------------|---------------------------------|-----------------------------------|---------------------------------|
| Algae | <input type="checkbox"/> None | <input type="checkbox"/> Slight | <input type="checkbox"/> Moderate | <input type="checkbox"/> Severe |
| Odor | <input type="checkbox"/> None | <input type="checkbox"/> Slight | <input type="checkbox"/> Moderate | <input type="checkbox"/> Severe |
| Color | <input type="checkbox"/> None | <input type="checkbox"/> Slight | <input type="checkbox"/> Moderate | <input type="checkbox"/> Severe |
| Turbidity | <input type="checkbox"/> None | <input type="checkbox"/> Slight | <input type="checkbox"/> Moderate | <input type="checkbox"/> Severe |

- EVIDENCE OF:**
- | |
|---|
| <input type="checkbox"/> Geese |
| <input type="checkbox"/> Animal Burrows |
| <input type="checkbox"/> Mosquitoes |

PROBLEM		1=NONE	2 - FEW	3 – SEVERAL	4-SEVERE
TRASH		No evidence of trash	A few pieces of trash throughout BMP	Trash accumulation near inlet/outlet	Lots of trash in BMP or BMP used for storage
BMP BANK EROSION		No noticeable erosion	Slight erosion < 5% of bank affected	Moderate erosion ~15% of bank affected	Banks severely eroded, >25% of bank affected
SEDIMENT DEPOSITION		No sediment deposition	Areas of minor sediment deposition	Areas of some deposition, may be severe near inlet/outlets	Lots of deposition resulting in pond bottom clogging
SURFACE SLOPE		0-1% BMP surface slope	1-3% BMP surface slope or steeper slopes with check dams,	3-5% BMP surface slope with no check dams,	>5% surface slope;
SIDE SLOPES		BMP side slopes 3:1 or flatter	BMP side slopes 2:1	Steep BMP side slopes	Risk of side slope failure
STRUCTURAL		No evidence of structural damage	Minor problems – bank slump, eroded channels	Moderate structural problems –failure pending	Structural failures – bank failure, blowout
VISIBILITY		High visibility, near high-traffic areas	Some visibility, near traffic areas	Limited visibility, near low traffic areas	No visibility, behind buildings or fences
VEG COVER		No mowing in/around BMP	Mowing along BMP edges but areas of no mow in BMP bottom	Mowed turf vegetation	BMP bottom has large areas of bare soil
		Dense plant cover (>50%)	Plant cover 30-50%	Some plant cover 15-30%	Sparse vegetative cover (<15%),
VEG HEALTH	TREES	Healthy and established	New growth	Stressed	Dead
	GROUND COVER	Healthy and established	New growth	Stressed	Dead
	SHRUBS	Healthy and established	New growth	Stressed	Dead

OVERALL PERFORMANCE SCORE (circle one number)

Excellent design and function, no general problems with performance	BMP is well designed, but is undersized or has a few performance problems	BMP is adequately designed, several problems with performance are noted	Poor BMP design, severe performance problems or failure
10	9	8	7
6	5	4	3
2	1		

FIELD NOTES

GOOD OR INTERESTING DESIGN FEATURES:

PHOTO #'S:

POOR OR PROBLEMATIC DESIGN FEATURES:

PHOTO #'S:

SECTION 3 – DESIGN PLAN VERIFICATION

AS BUILT (OR DESIGN) PLAN AVAILABLE: Yes No

Do field observations match design plans/as-builts? Describe any differences.

Soil type in facility Yes No If no, describe:

Pretreatment type and size Yes No If no, describe:

Signage Yes No If no, describe:

Low-flow channel Yes No If no, describe:

Dimensions/volume Yes No If no, describe:

Inlet type, #, and sizing Yes No If no, describe:

Outlet type, #, and sizing Yes No If no, describe:

Vegetation composition Yes No If no, describe:

Other features Yes No If no, describe: