



Stormwater Checklist Questions: Bioretention and Grass Swale

Mix of multiple choice and short answer questions with options to insert photos

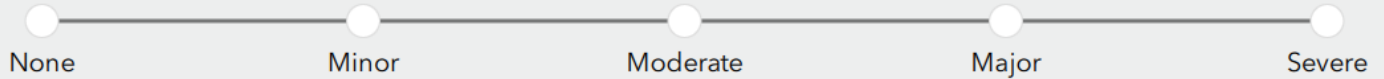
Inlet

Capture Inlet Photo / Browse to Inlet Photo

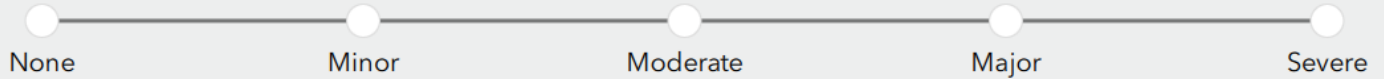


What is the extent of...

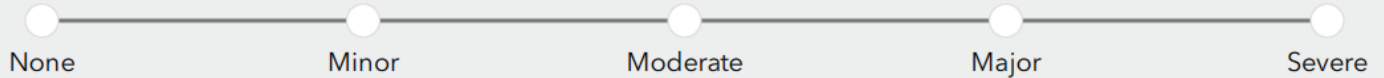
Erosion at the inlet or channel leading to inlet?



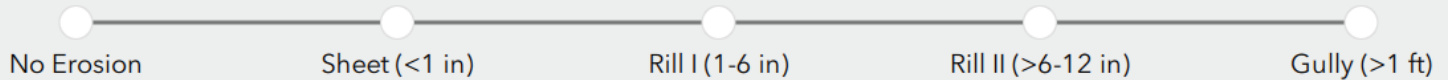
Sediment accumulation at the inlet or channel leading to inlet?



Leaf or woody **debris** at the inlet (grate, swale, forebay)?



What is the depth of **erosion** at the inlet?



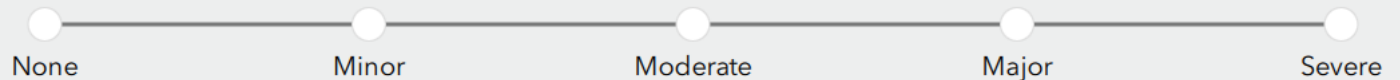
Within the BMP

Capture BMP Photo / Browse to BMP Photo

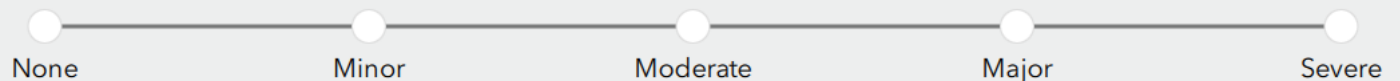


What is the extent of...

Erosion within the BMP?



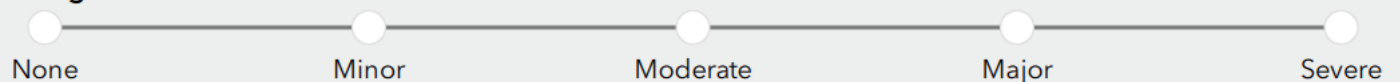
Sediment accumulation within the BMP?



Trash or natural **debris** within the BMP?



Overgrown **vegetation** within the BMP?



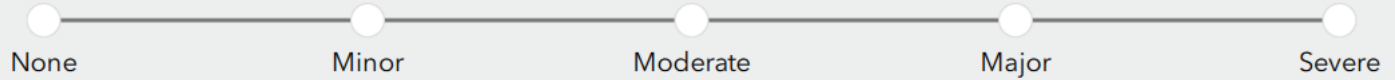


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Within the BMP Continued

Dead plant material within the BMP?



What is the percentage of **vegetative cover** within BMP?



Is **standing water** present?



What is the extent of clogged filter media/natural soils?



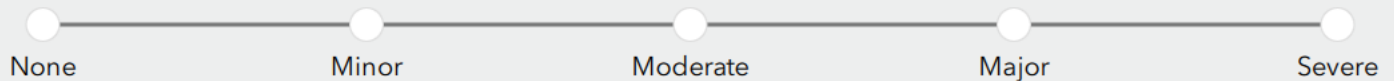
Outlet

Capture Outlet Photo / Browse to Outlet Photo

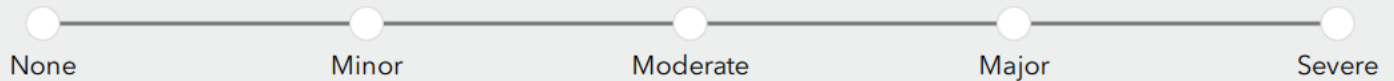


What is the extent of...

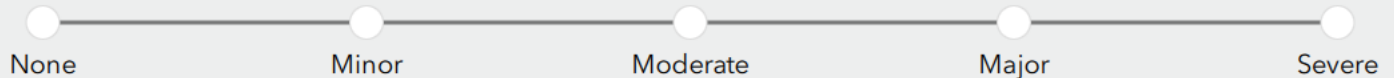
Erosion at the outlet?



Sediment accumulation at the outlet/underdrain or outlet structure, or trash rack?



Trash or natural **debris** at the outlet, outlet structure or trash rack?





Riparian Buffer Planting Checklist Questions

Mix of multiple choice and short answer questions with options to insert photos

Record the width of three sections in the riparian buffer planting zone.

Buffer Width 1

Buffer Width 2

Buffer Width 3

Average Buffer Width

Does the buffer planting cover the area originally proposed in the planting plan, including bank slopes, if applicable? *

- Plantings and natural vegetation are growing throughout area specified in the planting plan and beyond in some places.
- Planted area meets the length and width requirements specified in the plan.
- Planted area appears to be smaller than what was specified in the plan.
- Planted area starts too far away from top of bank or is significantly less than the area specified in the plan.
- No plantings appear to exist.

Is the average buffer width at least 35 feet from the top of bank or the width specified in the plan? *

- Buffer width is greater than 35 feet or greater than the amount specified in the plan.
- Buffer width is about 35 feet or meets the width specified.
- No, less than 35 feet, or less than the width specified.
- Less than 10 feet or does not exist in some places.
- No plantings appear to exist.

Is there a minimum of 300 stems per acre in density (approx. 1 tree every 12 feet = 300 stems/acre)? *

- Yes, noticeably more than 300 stems per acre.
- Yes, about 300 per acre.
- No less than 300 per acre.
- Very sparse or there are large gaps between stems.
- No plantings appear to exist.

Are the plantings healthy? *

- Yes, 90% or more of the plantings are alive and appear healthy.
- Yes, some plants have perished but 70-89% are healthy.
- No, most of the plants appear unhealthy or only 50-69% are surviving.
- No, more than 50% have perished.
- All plantings have perished or do not exist.



Riparian Buffer Planting Checklist Questions

Mix of multiple choice and short answer questions with options to insert photos

What is the overall vegetative cover on the ground? *

- Trees or shrubs are thriving within the area specified for planting.
- Trees or shrubs are present, but not thriving or are patchy in distribution.
- Few living trees or shrubs, grasses are predominant.
- Area contains sparse stable vegetation.
- Large patches of bare soil or large eroding areas.

What is the extent of human activities in the buffer (mowing, parking lots, roads, lawns, crops)? *

- More than 90% of buffer area intact. No human impacts.
- 70-90% of contract area intact. Minimal human impacts.
- 50-70% of contract area intact. Significant human impacts.
- Less than 50% of contract area intact.
- Entire area has been mowed or planted with crops or has other development.

Indicate if you see any of the following invasive species (see fact sheets, [Garlic Mustard](#), [Honeysuckle](#), [Japanese Knotweed](#), [Wild Chervil](#)):

- N/A
- Garlic Mustard
- Honeysuckle
- Japanese Knotweed
- Wild Chervil
- Other

If "other" was selected, please indicate the additional invasive species present.

Capture / Browse to Invasive Photo



Indicate if there are any maintenance needs such as removing sheltering tubes, watering, or other follow up notes.



Road Checklist Questions

Mix of multiple choice and short answer questions with options to insert photos

Road Type

Capture BMP Photo / Browse to BMP Photo



Road Type

- Unpaved with ditches
- Paved with ditches
- Paved with catch basins
- Class IV road

Select the applicable components of this project.

- Ditches (e.g. stone-lined, check dams)
- Culverts (e.g. repair or replacement)
- Road surface (e.g. grader berm removal, crowning)
- Structures/ BMPs (e.g. turnouts, waterbars, rock aprons, level spreaders)
- Slope Stabilization (e.g. mulching/ hydroseeding, rip rap, tree planting, terracing)
- Other

Does BMP Exist? *

Yes No

Road Condition

Does the BMP(s) appear to require maintenance? *

- No
- Partially
- Yes

Is the **road** properly crowned or tilted? *

- Yes
- Partially
- No

Does the **ditch** show signs of **erosion**? *

- None
- Yes, Rill (1-11")
- Yes, Gully (>12")



Road Checklist Questions

Mix of multiple choice and short answer questions with options to insert photos

Road Condition Continued

Does the **ditch** show signs of **deposition**? *

- None
- Some
- Extensive

Does the **road** show signs of **erosion**? *

- None
- Yes, Rill (1-11")
- Yes, Gully (>12")

Does the **road** show signs of **deposition**? *

- None
- Some
- Extensive

Is the road slope near the BMP greater than 8%? *

- Yes
- No

Is there vegetation between the road and BMP or on the bank slope? *

- Yes
- Partially
- No

Indicate if there are any maintenance concerns.

Culvert Condition

Is there a culvert involved in this project?

Yes No

Capture Culvert Photo / Browse to Culvert Photo

