

## DETENTION BASIN INSPECTION AND MAINTENANCE CHECKLIST

Facility/BMP Name: \_\_\_\_\_

Facility Score: \_\_\_\_\_

DEFECT	CONDITIONS WHEN MAINTENANCE IS NEEDED	SCORE	COMMENTS	RESULTS EXPECTED
<b>General</b>				
Trash & Debris	Trash and debris accumulated in basin. Visual evidence of dumping.			Trash and debris cleared from site and disposed of properly.
Invasive/poisonous vegetation, noxious weeds	Poisonous or nuisance vegetation (including noxious weeds) (e.g. English ivy, Japanese knotweed, mugwort, purple loosestrife, or poison ivy/oak)			Use integrated pest management techniques or similar to control weeds or invasive species.
Contaminants	Any evidence of oil, gasoline, or other hazardous materials and contaminants.			No signs of contaminants or pollutants present.
Rodent Holes	Any evidence of rodent holes, or any evidence of water piping through dam or berm via rodent holes.			The design specifications are not compromised by holes. Any rodent control activities are in accordance with applicable laws.
Tree/Brush Growth, Hazard Trees	Growth does not allow maintenance access or interferes with maintenance. Dead, diseased, or dying trees.			Trees/brush do not hinder access or maintenance activities.
General Vegetation	Overgrown or lack of appropriate vegetation is observed.			Established vegetation is in accordance with the design specifications.
Outfall Structure	Debris, silt, or sediment build-up obstructs the outfall structure.			Remove debris, silt, and/or sediment build-up and dispose of properly.
Drainage time	Standing water remains in the basin more than five days.			Restore drainage to design condition. If the problem cannot be corrected, mosquito control techniques should be implemented.

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<b>Side Slopes</b>				
Erosion	Rill or gully erosion over 2" deep is observed or where there is potential for erosion (e.g. lack of appropriate vegetation)			Side slopes or berm are restored to design specifications.
<b>Storage Area</b>				
Sediment	Accumulated sediment >10% of designed basin depth is observed or affects inletting/outletting condition of the facility.			Sediment or silt cleaned out to designed basin shape and depth; basin storage area re-seeded if necessary to control erosion. Sediment is disposed of properly.
Liner (if applicable)	Liner is visible and/or multiple holes in the liner are observed.			Liner repaired or replaced. Liner is fully covered.
<b>Emergency Overflow/Spillway and Berms</b>				
Settlement/ Subsidence	Evident berm settlement is >4" lower than design elevation, or subsidence has occurred.			Dike is built back or repaired back to design elevation.
Tree/Brush Growth or Debris	Tree growth, brush, or similar on berms or emergency spillway >4' in height or covering >10% of spillway. Debris (e.g. dumped grass clippings) are evident on berms or in the spillway.			Trees/brush and debris should be removed. Root systems should be removed. However, small (<4") root systems may be left in place. An engineer should be consulted for proper berm/spillway restoration.
Emergency Overflow/Spillway	Rock is missing and soil is exposed at top of spillway or adjacent slopes; or spillway profile has been altered.			Rocks and pad and/or profile are restored back to design standards.
<b>Inlet Pipe/Opening</b>				
Trash and Debris	Opening is plugged with trash and/or debris.			Trash is removed and disposed of properly.
Debris Barrier (e.g. Trash Rack (if applicable))	Barrier is not attached; bars are loose, missing, or bent.			Bars or barrier are repaired or replaced to allow proper function.

Detention Basin  
Inspection and Maintenance Checklist

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<b>Outlet Pipe/Opening</b>				
Trash and Debris	Opening is plugged with trash and/or debris.			Trash is removed and disposed of properly.
Debris Barrier (e.g. Trash Rack (if applicable))	Barrier is not attached; bars are loose, missing, or bent.			Bars or barrier are repaired or replaced to allow proper function.
Flow Duration Control (risers, orifices, and screens)	Any debris or clogging. Loose or missing orifice plate.			Restore unobstructed flow through discharge structure(s); to meet original design standards; dispose of debris properly.
<b>Fences and Gates</b>				
Missing or broken parts	Any defect in or damage to the fence or gate that permits easy entry to facility. Structural integrity is compromised.			Fencing and gate are restored to meet minimum design standards.
Deteriorating Paint or Protective Coating	Significant rust, scaling, or similar condition has affected structural integrity.			Paint, protective coating is sufficient to protect components (replacement may need to be considered).
<b>Miscellaneous* (Any condition or component not covered above that needs attention-list item(s))</b>				
				Meets design standards.
				Meets design standards.

\* Possible miscellaneous items for review and/or comment:

- Concrete structures (e.g. retaining wall, headwall, etc.) including comments regarding structural integrity.
- Adjacent conditions that may be affecting performance and/or impacting functionality.
- More specific notes and/or comments related to observed deficiencies associated with specific features (e.g. forebay).

**Other Notes**

A large rectangular box with a black border, intended for handwritten notes. The box is currently empty.