

**DRY EXTENDED DETENTION BASIN
OPERATION AND MAINTENANCE AGREEMENT**

Project Name: _____

Project Location: _____

SCM as Identified on Approved Plans: _____

PIN Number: _____

Mail after recording to: City of Burlington
Water Resources
P.O. Box 1358
Burlington, NC 27216

NORTH CAROLINA

ALAMANCE COUNTY

This STORMWATER OPERATION AND MAINTENANCE AGREEMENT,

made this day _____ of _____, 20 _____ by

_____ whose principal address is

_____ with, to, and for the

benefit of the City of Burlington, a municipal corporation of the State of North Carolina, whose address is P.O. Box 1358, Burlington, North Carolina 27216.

Dry Extended Detention Basin Operation and Maintenance Agreement

I will keep a maintenance record on this Stormwater Control Measure (SCM). This maintenance record will be kept in a log in a known set location. Any deficient SCM elements noted in the inspection will be corrected, repaired or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public, and the removal efficiency of the SCM.

The dry extended detention basin system is defined as the dry detention basin, outlet structure, pretreatment including forebays and the vegetated filter if one is provided.

This system (check one):

does does not **incorporate a vegetated filter at the outlet.**

This system (check one):

does does not **incorporate pretreatment other than a forebay.**

Important maintenance procedures:

- The drainage area will be managed to reduce the sediment load to the dry extended detention basin.
- Immediately after the dry extended detention basin is established, the vegetation will be watered twice weekly if needed until the plants become established (commonly six weeks).
- No portion of the dry extended detention pond will be fertilized after the first initial fertilization that is required to establish the vegetation.
- I will maintain the vegetation in and around the basin at a height of approximately six inches.
- Once a year, a dam safety expert will inspect the embankment.

After the dry extended detention basin is established, it will be inspected **once a quarter and within 24 hours after every storm event greater than 1.0 inches**. Records of operation and maintenance will be kept in a known set location and will be available upon request.

Annually, by May 31, an inspection shall be completed by a qualified professional and submitted to the City of Burlington.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

SCM element:	Potential problem:	How I will remediate the problem:
The entire SCM	Trash/debris is present.	Remove the trash/debris.
The perimeter of the dry extended detention basin	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.

SCM element:	Potential problem:	How I will remediate the problem:
The inlet device: pipe or swale	The pipe is clogged (if applicable).	Unclog the pipe. Dispose of the sediment off-site.
	The pipe is cracked or otherwise damaged (if applicable).	Replace the pipe.
	Erosion is occurring in the swale (if applicable).	Regrade the swale if necessary to smooth it over and provide erosion control devices such as reinforced turf matting or riprap to avoid future problems with erosion.
The forebay	Sediment has accumulated and reduced the depth to 75% of the original design depth (see diagram below).	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM.
	Erosion has occurred or riprap is displaced.	Provide additional erosion protection such as reinforced turf matting or riprap if needed to prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by hand. If herbicides are used, wipe them on the plants rather than spraying.
The main treatment area	Sediment has accumulated and reduced the depth to 75% of the original design depth (see diagram below).	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the SCM. Revegetate disturbed areas immediately with sod (preferred) or seed protected with securely staked erosion mat.
	Water is standing more than 5 days after a storm event.	Check outlet structure for clogging. If it is a design issue, consult an appropriate professional.
	Weeds and noxious plants are growing in the main treatment area.	Remove the plants by hand or by wiping them with herbicide (do not spray).

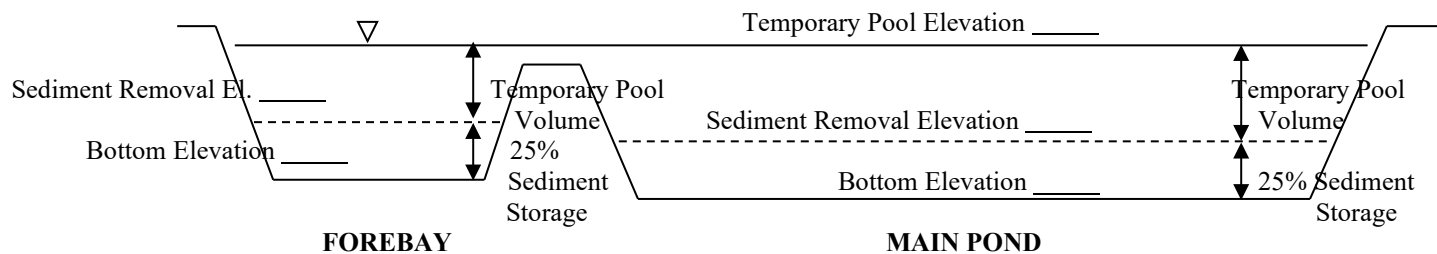
SCM element:	Potential problem:	How I will remediate the problem:
The embankment	Shrubs or trees have started to grow on the embankment.	Remove shrubs or trees immediately.
	Grass cover is unhealthy or eroding.	Restore the health of the grass cover – consult a professional if necessary.
	Signs of seepage on the downstream face.	Consult a professional.
	Evidence of muskrat or beaver activity is present.	Use traps to remove muskrats and consult a professional to remove beavers.
	An annual inspection by appropriate professional shows that the embankment needs repair.	Make all needed repairs.
The outlet device	Clogging has occurred.	Clean out the outlet device. Dispose of the sediment off-site.
	The outlet device is damaged	Repair or replace the outlet device.
The receiving water	Erosion or other signs of damage have occurred at the outlet.	Contact the City of Burlington Water Resources Stormwater Division at 336-222-5140.

The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

When the basin depth reads _____ feet in the main pond, the sediment shall be removed.

When the basin depth reads _____ feet in the forebay, the sediment shall be removed.

BASIN DIAGRAM
(fill in the blanks)



I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Burlington of any problems with the system or prior to any changes to the system or responsible party.

This Agreement shall be binding upon the undersigned and its successors and assigns and all current and future owners thereof, and their respective heirs, successors and assigns, in perpetuity, and shall be appurtenant to, run with, and burden the parcels of land referred to herein.

Project name: _____

SCM as Identified on Approved Plans: _____

Print name: _____

Title: _____

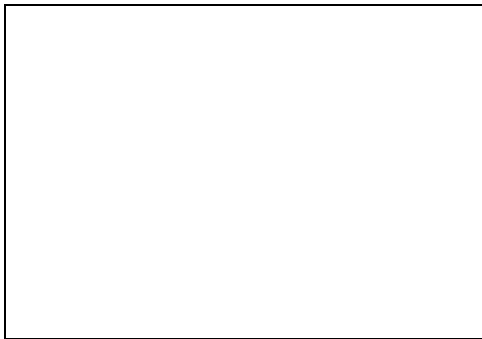
Address: _____

Phone: _____

Signature: _____

Date: _____

I, _____, a Notary Public for the State of _____, County of _____, do hereby certify that _____ personally appeared before me this _____ day of _____, _____, and acknowledge the due execution of the forgoing dry detention basin maintenance requirements. Witness my hand and official seal,



SEAL

My commission expires _____