Development Name:	

## Wet Detention Basin Operation and Maintenance Agreement

I will keep a maintenance record on this BMP. This maintenance record will be kept in a log in a known set location. Any deficient BMP elements noted in the inspections 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 BMP.

The wet detention basin system is defined as a wet detention basin, pretreatment including forebays and the vegetated filter is one is provided.

This system (check one):	1
does does not	incorporate a vegetated filter at the outlet.
This system (check one):	:
$\square$ does $\square$ does not	incorporate pretreatment other than a forebay.

Important operation and maintenance procedures:

- Immediately after the wet detention basin is established, the plants on the vegetated shelf and perimeter of the basin should be watered twice weekly if needed, until the plants become established (commonly six weeks).
- No portion of the wet detention pond should be fertilized after the first initial fertilization that is required to establish the plants on the vegetated shelf.
- Stable groundcover should be maintained in the drainage area to reduce the sediment load to the wet detention basin.
- If the basin must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain should be minimized to the maximum extent practical.

After the wet detention pond is established, it should be insepected **once a month 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.

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

BMP element:	Potential problems:	How I will remediate the problem:
The entire BMP	Trash/ debris is present	Remove the trash/ debris
The perimeter of the	Areas of bare soil and/or	Regrade the soil if necessary to remove
wet detention basin	erosive gullies have formed.	the gullies, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.
	Vegetation is too short or too	Maintain vegetation at a height of
	long.	approximately six inches.

Operation and Maintenance Agreement adopted from NCDENR, Division of Water Quality, Stormwater Best management Practices Manual, July 2007, Revised June 2009.

BMP element:	Potential problems:	How I will remediate the problem:
The inlet device: pipe	The pipe is clogged.	Unclog the pipe. Dispose of the
or swale		sediment off-site.
	The pipe is cracked or	Replace the pipe.
	otherwise damaged.	Dogrado the guale if negagggrate
	Erosion is occurring in the swale.	Regrade the swale if necessary to
	sware.	smooth it over and provide erosion control devices such as reinforced turf
		matting or riprap to avoid further
		problems with erosion.
The forebay	Sediment has accumulated	Search for the source of the sediment
	to a depth greater than the	and remedy the problem if possible.
	original design depth for	Remove the sediment and dispose of it
	sediment storage.	in a location where it will not cause
		impacts to streams or the BMP.
	Erosion has occurred.	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 pesticide is used, wipe it on the
		plants rather than spraying.
The vegetated shelf	Best professional practices	Prune according to best professional
	show that pruning is needed	practices.
	to maintain optimal plant health.	
	Plants are dead or diseased	Determine the source of the problem:
	or dying.	soils, hydrology, disease, etc. Remedy
		the problem and replace plants.
		Provide a one-time fertilizer
		application to establish the ground
		cover if a soil test indicates it is
		necessary.
	Weeds are present.	Remove the weeds, preferably by hand.
		If pesticide is used, wipe it on the
		plants rather than spraying.
The main treatment	Sediment has accumulated	Search for the source of the sediment
area	to a depth greater than the	and remedy the problem if possible.
	original design depth for	Remove the sediment and dispose of it
	sediment storage.	in a location where it will not cause
		impacts to streams or the BMP.
	Algal growth covers over	Consult a professional to remove and
	50% of the area.	control the algal growth.
	Cattails, phragmites or other	Remove the plants by wiping them with
	invasive plants cover 50% of	pesticide (do not spray).
	the basin surface.	

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BMP element:	Potential problems:	How I will remediate the problem:
The embankment	Shrubs have started to grow on the embankment.	Remove shrubs immediately.
	Evidence of muskrat, beaver, or rodent activity is present.	Please consult a professional to remove muskrats, beaver, and rodents.
	A tree has started to grow on the embankment.	Consult a dam safely specialist to remove the tree.
	An annual inspection by an appropriate professional shows that the embankment needs repair. (if applicable)	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.	Repair and stabilize erosion at pond outlet. Ensure work does not encroach into the 50 foot stream buffer (if applicable). Please contact the City of High Point Stormwater Division at 336-883-3455 with any questions.

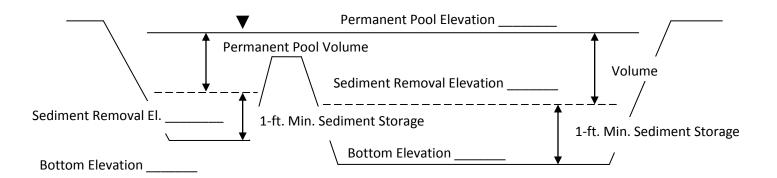
The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and readily penetrate into accumulated sediments.

When the permanent pool depth reads \_\_\_\_\_ feet in the main pond, the sediment shall be removed.

When the permanent pool depth reads \_\_\_\_\_ feet in the forebay, the sediment shall be removed.

## **Basin Diagram**

(fill in the blanks)



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maintenance procedures listed above. I agree to notify the City of High Point Stormwater Division of any problems with the system or prior to any changes to the system or responsible party. Development Name: **Note:** The legally responsible party should not be a homeowners association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president. 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 bioretention maintenance requirements. Witness my hand and official seal. SEAL

I acknowledge and agree by my signature below that I am responsible for the performance of the

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My commission expires: