

Dry Extended Detention Basin Checklist for Annual SCM Maintenance Certification

City of Durham, North Carolina

| | | | |
|-------------------------------|--|-------------|--|
| Facility ID: | <input style="width: 90%;" type="text"/> | Date | <input style="width: 90%;" type="text"/> |
| SCM Site/Project Name: | <input style="width: 95%;" type="text"/> | | |

Important Note: It shall be noted that the items included in this inspection checklist are not an exhaustive list of inspection items for any particular facility. As each facility is different, the City looks to the professional inspecting the facility to perform a comprehensive inspection of the facility and list all items found during the inspection on the inspection checklist, even though all may not be listed on this checklist to begin with.

Checklist Status Codes

Fully Functional (No Problems Found) = Pass for Inspection
Minor Functional Issues, However Pass for Inspection **Refer to checklist status code notes below*
Partially Functional (Repairs Needed) = Fail the Inspection
Not Functional (Repairs Needed) = Fail the Inspection
Monitor **Refer to checklist status code notes below*
Not Applicable

***Checklist Status Code Notes:**

1. *Minor Functional Issues (MFIs) shall be corrected during routine maintenance throughout the year. In addition, BMCs shall revise the facility's operation and maintenance (O&M) manual accordingly to address each MFI. BMCs shall verify whether each MFI was resolved during subsequent annual inspections and indicate results on next year's annual inspections report.*
2. *For items checked Monitor, BMCs shall revise the facility's O&M manual with frequency of monitoring needed and include actions to be taken (if any). Please describe in the additional comments section, as needed.*

| Assessment | Status | Comments |
|------------|--------|----------|
|------------|--------|----------|

INFLOW POINTS

| | | |
|--|--|--|
| Obstruction: vegetation/debris/sediment | | |
| Erosion/undercutting | | |
| Displacement/blockage of inlet or rip-rap, aprons, fabric, etc. | | |
| Pipe condition | | |
| Other (describe) | | |

FOREBAY (AS APPLICABLE)

| | | |
|----------------------------------|--|--|
| Sediment/debris accumulation | | |
| Bare soil/erosion on side slopes | | |
| Invasive vegetation | | |
| Other (describe) | | |

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| Assessment | Status | Comments |
|--|--------|----------|
| MAIN TREATMENT AREA | | |
| Standing water (>5-days after storm). <i>Check the design drawdown time if applicable</i> | | |
| Sediment/debris accumulation | | |
| Bare soil/erosion on side slopes | | |
| Invasive vegetation | | |
| Side slopes maintained as mowed/covered | | |
| Emergency spillway properly armored and free of woody vegetation | | |
| Other (describe) | | |
| EMBANKMENT | | |
| <i>* Note: Ideally shrubs/trees should not exist on an earthen embankment dam. However, if greater than 6" diameter breast height; they should not be removed unless approved by Stormwater Services staff. Approval from Stormwater Services shall be required prior to any application of herbicide or other chemical application.</i> | | |
| Bare soil, erosion, loss of dam material | | |
| Shrubs/trees present <6" diameter breast height | | |
| Animal burrows | | |
| Grass cover is eroding/unhealthy | | |
| Signs of seepage on downstream face | | |
| Signs of structural failure: i.e; horizontal/vertical cracks | | |

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EMBANKMENT/DAM (CONTINUED)

** Note: Ideally shrubs/trees should not exist on an earthen embankment dam. However, if greater than 6" diameter breast height; they should not be removed unless approved by Stormwater Services staff. Approval from Stormwater Services shall be required prior to any application of herbicide or other chemical application.*

| | | |
|---|--|--|
| Upslope, top, and downslope maintained as mowed | | |
| Overall structural condition | | |
| Other (describe) | | |

OUTLET DEVICE

| | | |
|--|--|--|
| Obstructed pipe, trash rack, or draw-down orifice | | |
| Erosion/undercutting | | |
| Joint failure/loss of joint material, soil piping | | |
| Overall structural condition | | |
| Sediment in pipe | | |
| Displacement/blockage of outlet or rip-rap, aprons, fabric, etc. | | |

MISCELLANEOUS

| | | |
|---------------------------------|--|--|
| Trash/debris | | |
| Access | | |
| Evidence of routine maintenance | | |
| Other (describe) | | |

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PHOTOGRAPHS: Attach low-resolution (500KB or less), digital color photographs of the site and SCM features. Include captions describing the photographs.

| | |
|--|--|
| <p style="text-align: center;"><i>Click above to add photo</i></p> | <p style="text-align: center;"><i>Click above to add photo</i></p> |
|--|--|

| | | | |
|----------|----------------------|----------|----------------------|
| Photo 1: | <input type="text"/> | Photo 2: | <input type="text"/> |
|----------|----------------------|----------|----------------------|

| | |
|--|--|
| <p style="text-align: center;"><i>Click above to add photo</i></p> | <p style="text-align: center;"><i>Click above to add photo</i></p> |
|--|--|

| | | | |
|----------|----------------------|----------|----------------------|
| Photo 3: | <input type="text"/> | Photo 4: | <input type="text"/> |
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INSPECTION RESULTS

The results of this inspection are as follows:

PASS / CERTIFIED
CHECK APPLICABLE BOX: IF THIS IS AFTER AN ENGINEERING MODIFICATION REPORT OR INITIAL FAILURE
INSPECTION FOUND NO PROBLEMS, AS IT RELATES TO THE FUNCTIONALITY OR PUBLIC SAFETY ASPECTS OF THE FACILITY.

PASS / CERTIFIED / MINOR ISSUES WHICH CAN BE CORRECTED THROUGH ROUTINE YEAR ROUND MAINTENANCE
INSPECTION FOUND MINOR PROBLEMS THAT ARE NOT HAVING AN IMPACT ON THE CURRENT FUNCTIONALITY OR PUBLIC SAFETY ASPECTS OF THE FACILITY. HOWEVER, LEAVING UNADDRESSED THESE PROBLEMS WILL IMPAIR THE DEVICE'S LONG TERM FUNCTIONALITY. MINOR PROBLEMS SHALL BE NOTED IN THE O&M MANUAL AS SUCH, MUST BE ADDRESSED THROUGH ROUTINE MAINTENANCE, AND VERIFIED AT THE NEXT ANNUAL INSPECTION.

FAIL (REPAIRS CAN BE COMPLETED WITHIN 90 DAYS)
INSPECTION FOUND APARENT PROBLEMS WHICH NEED IMMEDIATE ATTENTION. COMPLETE THE REPAIR AND/OR MAINTENANCE ITEMS INDICATED IN THE SEALED IMPLEMENTATION SCHEDULE WITHIN 90 DAYS OF THE DATE OF THIS REPORT. RE-INSPECTION AND CERTIFICATION PRIOR TO OR AT THE 90 DAY INTERVAL WILL FOLLOW SATISFACTORY COMPLETION OF ALL REPAIRS AND MAINTENANCE. REPORTS NOT RECEIVED AFTER 90 DAYS WILL AUTOMATICALLY DEFAULT INTO ENFORCEMENT ACTIONS.

FAIL (REPAIRS CANNOT BE COMPLETED WITHIN 90 DAYS - EMR REQUIRED)
INSPECTION FOUND THAT THE FACILITY WAS NOT COMPLETED, OR WAS "COMPLETED" IN A MANNER THAT SIGNIFICANTLY DIFFERS (NEGATIVELY) FROM THAT DETAILED IN THE ORIGINAL DESIGN PLANS, OR IS IN SUCH A STATE OF DISREPAIR OR FUNCTIONAL FAILURE THAT A CERTIFICATION CANNOT BE REASONABLY PROVIDED WITHIN 90 DAYS FROM THE DATE OF THE INSPECTION. SUBMIT ENGINEERING MODIFICATION REPORT (EMR) PER REQUIREMENTS FOUND AT:
[HTTP://DURHAMNC.GOV/ICH/OP/PWD/STORM/PAGES/BMP-ANNUAL-MAINTENANCE-CERTIFICATION-AND-AS-BUILT-CERTIFICATION-PROGRAMS.ASPX](http://DURHAMNC.GOV/ICH/OP/PWD/STORM/PAGES/BMP-ANNUAL-MAINTENANCE-CERTIFICATION-AND-AS-BUILT-CERTIFICATION-PROGRAMS.ASPX)

Certification:

Based upon my inspection of this constructed SCM facility on , I hereby certify that the facility's functional and public safety aspects are (CHECK ONE ONLY) **IN COMPLIANCE** **NOT IN COMPLIANCE** with the original or most recent approved design plans, and the City of Durham's operation and maintenance standards.

Seal/Signature

Inspection by:

Click area above to attach digital signature

Click above to affix electronic seal