



Stormwater Operations and Maintenance Plan

UNDERGROUND DETENTION

Regular inspection and maintenance are necessary to preserve long-term functionality of Stormwater Control Measures “SCMs” per the original design intent. This Plan outlines the Town of Chapel Hill requirements for regular inspection and maintenance of Underground Detention SCMs. The Owner as defined in the Agreement shall keep a copy of this Stormwater Operations and Maintenance Plan, any applicable proprietary manufacturer’s O&M Plan, the SCM Inspection and Maintenance Log, and a copy of the approved As-Built Plans in a known set location and made available to the Town of Chapel Hill upon request.

Annual inspections shall be performed by a qualified licensed Professional Engineer or Landscape Architect. Routine maintenance and inspection shall be performed by a qualified professional with NCSU Stormwater Inspection and Maintenance Certification or similar certification.

The qualified professional shall maintain a **SCM Inspection and Maintenance Log** and make available to the Town of Chapel Hill upon request. All inspections shall be recorded in the log according to the frequency in the Inspection and Maintenance Table (Table 1 below) and within 24 hours after storm events that exceed 1.0 inch of rainfall. Any deficit SCM elements noted during inspection shall be recorded in the log and immediately corrected, repaired, or replaced. All routine and corrective/emergency maintenance activities shall be recorded in the log. The log template can be found at the Town of Chapel Hill Stormwater Control Measures [website](#).

An **Annual Inspection and Maintenance Report** shall be submitted to the Town of Chapel Hill Stormwater Department. The report shall detail the status of the SCM and maintenance performed as outlined in the [SCM Inspection Report Guidelines](#). A copy of the annual report shall be submitted to the Town of Chapel Hill Stormwater Management Division beginning one year after issuance of the Certificate of Occupancy.

REQUIRED INSPECTION AND MAINTENANCE TASKS FOR UNDERGROUND DETENTION

NOTE: The following inspection and maintenance table is not an exhaustive list of inspection and maintenance tasks. It is the responsibility of the professional inspecting the facility to perform comprehensive maintenance for the SCM to be operational.

Table 1: Inspection and Maintenance Provisions for Underground Detention

FREQUENCY OF INSPECTIONS	MAINTENANCE ACTIVITIES
Biannually	<ul style="list-style-type: none"> • Check detention chambers and pipes for any obstructions, clogging, or damage. Remove accumulated grit, leaves, and debris and dispose off-site. • Remove any trash or debris present within the drainage area and outfall area. • Inspect the detention system for structural integrity and any accumulation of liquids or solids within the unit.
Yearly	<ul style="list-style-type: none"> • If the detention is in an area that is salted regularly during winter, the system should be rinsed during the springtime to prevent salting agents from accumulating inside the pipes.
As Needed (Typical Problems)	<p>Structural Integrity</p> <ul style="list-style-type: none"> • Repair any cracks, spalled areas, rusted areas within the detention chambers. • Replace any crushed or collapsed pipes under the supervision of a professional engineer. • Replace the detention structure if it has severely deteriorated. • Repair eroded outfall channels with additional riprap armoring or other permanent lining material. <p>Functionality</p> <ul style="list-style-type: none"> • Sediment Accumulation <ul style="list-style-type: none"> ○ Maintain stable ground cover in the drainage area. ○ Sweep or vacuum sediment on pavement in the contributing drainage area. ○ Any accumulated sediment in the detention unit must be disposed to a waste handling facility. • Other Pollutants <ul style="list-style-type: none"> ○ Identify and eliminate any sources of excessive oil loading. ○ If clogging becomes a persistent issue that prevents drawdown, a trashrack is required on the discharge orifice within the underground detention structure. <p>For additional information or if damage has occurred at the outlet which effects the receiving water, contact the Town at Chapel Hill Stormwater Management at 919-969-7246 (RAIN).</p>