



Stormwater Operation and Maintenance Plan

PERMEABLE PAVEMENT

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 Permeable Pavement 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 PERMEABLE PAVEMENT

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 Permeable Pavement

FREQUENCY OF INSPECTIONS	MAINTENANCE ACTIVITIES
Monthly, Biweekly in fall and spring	<ul style="list-style-type: none"> • Remove leaves, pollen, trash, and other debris on the surface of the permeable pavement preferably with a portable blower and/or street sweeper. • Manually pull out any weeds or vegetation growing in the vegetation trying to keep as much media in place as possible.
Quarterly	<ul style="list-style-type: none"> • Inspect the permeable pavements and address any deficiencies. If poor preventive maintenance is the cause of deficiencies, implement plans for better preventative maintenance to preserve long-term functionality (see below).
Yearly at minimum	<ul style="list-style-type: none"> • Use a regenerative air or vacuum sweeper to remove accumulated sediment • Test the pavement surface infiltration rate using the simple infiltration test referenced in the NCDEQ Stormwater Design Manual and address any deficiencies. Please consult with Town staff before infiltration tests are performed.
As needed (Typical Problems)	<p>Structural integrity</p> <ul style="list-style-type: none"> • If there is rutting, cracking, slumping, or other damage on the surface on the surface, contact a professional. <p>Functionality</p> <ul style="list-style-type: none"> • Sediment accumulation prevention <ul style="list-style-type: none"> ○ Ensure that all contributing areas are stabilized and graded to drain away from the pavement as much as possible. Plant any bare spots and water until established. ○ Do not stockpile soil, sand, mulch, salt or other materials on the permeable pavement and cover any stockpiles near the permeable pavement. ○ Lay down tarp on the surface before transporting soil, mulch, or sand across the permeable pavement. ○ Do not blow or bag grass clippings or other materials on the permeable pavement. ○ Any construction project that occurs on a site with permeable pavement must consult with Town stormwater staff. • Illicit discharge prevention <ul style="list-style-type: none"> ○ Do not wash vehicles parked on the permeable pavement. ○ Do not apply herbicides to permeable pavement. ○ Do not dump oils or chemicals or allow contaminated runoff to drain to the permeable pavement. • Drainage issues <ul style="list-style-type: none"> ○ If water is present in the observation well more than 5 days after a storm event exceeding 1 inch, flush the underdrain. If the problem persists, consult the designer or appropriate professional since there may be clogging in the soil subgrade.

- If water is ponding or flowing off surface, vacuum sweep the surface and ensure that the drainage area is not a source of sediment. If the problem persists, contact a professional.

Winter Activities

- Do not apply sand or deicers on the surface for winter storms.
- Permeable interlocking concrete pavers, pervious concrete, and pervious asphalt can be plowed like conventional pavements.
- Raise the blade about 1 in. higher than usual when plowing concrete grid pavers and plastic turf reinforcing grid to avoid damaging them. A rubber strip can also be applied to the blade to protect them.
- Do not pile plowed snow upon permeable pavement surfaces

For additional information, contact the Town at Chapel Hill Stormwater Management at 919-969-7246 (RAIN).