

MAINTENANCE MATTERS

The expected lifespan for permeable pavements is 25 years or more with proper maintenance. Routine inspections and maintenance are necessary to retain long-term functionality and compliance with the City's Water Quality Rules.



Grass Grid Pavers



Interlocking Paver Blocks



Grass Pavers



Pervious Concrete



ROUTINE MAINTENANCE FOR PERMEABLE PAVEMENTS

PERVIOUS CONCRETE · POROUS ASPHALT
INTERLOCKING PAVER BLOCKS · REINFORCED
TURF GRASSING · GRAVEL FILLED GRIDS

BE AN EVERYDAY
CLEAN WATER

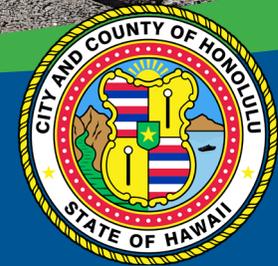


CLEANWATERHONOLULU.COM

FOR MORE INFORMATION:

Storm Water Quality Online Learning Center
for Construction & Post-Construction
<http://www.honolulu.gov/dfmswq/learningctr.html>

Storm Water BMP Guide for New and Redevelopment
<http://bit.ly/SWBMPGuide>



CITY AND COUNTY OF HONOLULU
DEPARTMENT OF FACILITY MAINTENANCE

INSPECTION AND MAINTENANCE REQUIREMENTS

Permeable pavements must be inspected a minimum of 4 times per year (once per quarter) and maintenance must be performed at least once per year (Rules Relating to Water Quality §20-3-53).

Certain pavement types may require more frequent inspections and maintenance depending on the amount and quality of runoff they receive. Lack of maintenance can result in damage that is difficult and costly to repair.

Issue	Maintenance Solution
Visible trash & debris	Dry-vacuum and/or sweep the surfaces.
Visible sediment	Clean with a vacuum sweeper.
Moss growth	Pressure wash while vacuuming runoff.
Loose pavement/misaligned or settled paver blocks	Vacuum loose pavement; patch for stabilization. Replenish aggregate in joints or grids as needed.
Bare soil in areas that drain to the permeable pavement area	Stabilize bare areas with landscaping or mulch.
Persistent ponding & standing water after 24 hours	Sweep/vacuum surface, pressure wash if necessary, and clear underdrains.
Sediment build up/ponding at underdrain	Jet, vacuum, or rod underdrain and outlet and remove sediment.

 To determine if your permeable pavement is functioning properly, perform inspections for ponding or failure to drain during and immediately after a storm event.

RECORD KEEPING

Keep a log of all routine inspections and maintenance actions.

Records must be kept on site for a minimum of 5 years and be made available to the City immediately upon request.

Inadequately inspected and maintained permeable pavements may be subject to penalties.



Records can be used to request a reduced inspection and maintenance schedule from the Department of Facility Maintenance Storm Water Quality Branch.

EQUIPMENT

The following commercial-grade equipment is recommended for the proper maintenance of permeable pavement:

- pure vacuum sweepers
- regenerative air sweepers
- walk-behind vacuum units.

Broom-type sweepers are not recommended as they may push materials deeper into the porous pavement matrix causing further clogging.



Find a local O&M service provider at http://bit.ly/O_M_Services_Oahu.



Permeable pavement function is significantly reduced when the matrix becomes clogged with fine sediments.

WASTE HANDLING

Trash and fine sediments are considered non-hazardous wastes and can be disposed of in the landfill.

Wash water resulting from pressure washing parking areas must be disposed of via a sanitary sewer connection or properly treated and recycled.

Non-parking lot wash water may be discharged to a landscaped area on site that can retain and absorb it.