NON-POROUS vs. POROUS

In nature, rain soaks into the ground or flows into waterways. That doesn't happen in urban areas like Springfield where land is covered by waterproof buildings and pavement. These structures help us stay dry but also block the natural water cycle. It would cause flooding and erosion, but we have a stormwater system to drain rain out of the City and directly into local waterways. It's expensive infrastructure that requires maintenance and it transports pollution straight from neighborhoods to local rivers. Where possible, a porous surface is a great choice on your property because it allows rain to soak into the ground, which provides many benefits.







SOAKING IT UP AT BRATTAIN HOUSE 10th and G Street, Springfield, Oregon

See porous surfaces in action at the rain garden at historic Brattain House in Springfield. This public garden was built in 2015 as part of a Sustainable Cities initiative in collaboration with the University of Oregon. It showcases attractive, functional, and rain-friendly landscaping.

Permeable pavers on the path let rain soak into and around the bricks. River rock along the edges and in the garden keep mud at bay, reduce erosion and let rain percolate into groundwater below.

When it rains on the roof of the house or pavilion, downspouts

move the water to a gutter that feeds into a rain garden. Native plants in the rain garden help reduce erosion and assist with absorption of excess nutrients, plus the root systems help with filtration. *Swing by to check it out!*

CONTACT US

We're here to help keep Springfield's rivers clean, so we're here to help you do that too!



For more info, contact the Stormwater Team SpringfieldStreams.org, 541.726.3694 WaterResources@springfield-or.gov

CITY OF SPRINGFIELD, OREGON



SPRINGFIELD



Gutter empties to rain garden.

Permeable pavers and a g

Porous surfaces HERE'S WHY THEY'RE WORTH IT...

REDUCE STORMWATER RUNOFF

Porous surfaces allow rainwater to soak into the ground, reducing the amount of stormwater runoff that flows into storm drains and streams. By reducing

the amount of runoff, you can help protect water quality and reduce the risk of flooding.

RECHARGE GROUNDWATER

future generations.

Porous surfaces help recharge groundwater, which is an important source of Springfield's drinking water. When rainwater infiltrates the ground, it replenishes the groundwater supply, ensuring that there is enough water for

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reducing the ambient temperature and make outdoor spaces more comfortable on a hot day.

the ground, providing many benefits.

Porous surfaces act as a natural filtration system,

removing pollutants and sediments from stormwater

runoff as it infiltrates the ground. This helps improve

water quality and protects the health of aquatic ecosystems.

IMPROVE WATER OUALITY

ENHANCE LANDSCAPE DESIGN

Traditional hardscaping materials such as concrete, asphalt, and brick-and-mortar paths create non-porous surfaces that interrupt the natural water cycle as they prevent rain from soaking into the ground. This causes problems that require an extensive and resource-intensive stormwater system to remedy. Even then, there are problems. Porous surfaces, on the other hand, allow water to soak into

> Porous surfaces come in a range of textures, shapes, and colors, which can be customized for your landscape style. Plus, porous surfaces suit a variety of

applications, including driveways, parking lots, and walkways.

COMMUNITY BENEFIT

By installing porous surfaces on your property, rest assured you're making a good choice that's functional, attractive, and improving local water quality in and around your area for the long term. You're part of a growing group of Springfielders taking steps to leave our land in better shape than we found it.

Find Springfield's entire collection of Clean Water Garden brochures at bit.ly/cleanwatergarden.

IDEAS FOR POROUS SURFACES

Porous surfaces add a lot of character! The next time you install or re-do a driveway, patio, walkway, or path consider porous options.

There are a variety of styles and price points to choose from. In addition to choosing a great surface, also consider the soil below and if it needs amendments to assist with rain infiltration, such as a layer of gravel and/or sand. Less common than these options, but also available, is permeable concrete and porous asphalt.



PERMEABLE PAVERS offer a beautiful and durable surface. They can make for a difficult do-ityourself project, so consider professional installation.



CLAY BRICKS are often available from old buildings, and other salvage sites. There are many types of sand that are porous, brace the bricks, and prevent weeds.



CRUSHED ROCK OR GRAVEL

Great for patios! For good infiltration. if using layers of rock, put the largest rocks on top.

STONE makes for a lovely path. Herbs can be planted for a scented tour of the garden.

between stones



WOOD CHIPS on a path lend a natural look. Be prepared for regular

maintenance.

