Clean Water Services is a public utility committed to protecting water resources in the Tualatin River Watershed. Nearly 500,000 customers enjoy clean water and healthy rivers and streams through innovative wastewater and stormwater services, flood management projects, water quality and stream enhancement projects, fish habitat protection, and more.

2550 SW Hillsboro Highway
Hillsboro, Oregon 97123
(503) 681-3600
www.CleanWaterServices.org

Want to know more?

To find out more about porous pavers and concrete mixes described in this brochure, check the internet or yellow pages. The following contacts will get you started:

UNI-GROUP U.S.A. (UNI ECO-STONE®)
4362 Northlake Blvd., Suite 204
Palm Beach Gardens, FL 33410
(800) 872-1864 / (561) 626-4666
www.uni-groupusa.org

¿Qué está haciendo el color de fondo? La función de los poros en la pavimentación de concreto.
Un-paving the way to cheaper development and maintenance costs

Lucky Labrador Public House
7675 SW Capital Highway, Portland

Located at the headquarters of Vermont Creek in southeast Portland, the Lucky Labrador Public House reduced its stormwater impact to the Tualatin River by installing Uni-Stone® pavers in its parking lot. Gene Thomas, senior project manager, said, "We found out we could speed up the permitting process and pay no extra system development charges, I was ready to go! It’s been rock solid. It looks cool, like a cobblestone which fits aesthetically with the older, renovated building." Lucky Lab completed the parking lot in 2002. Staff installed the pavers themselves, which saved significant labor costs.

"The cost was definitely more expensive to install, but when we looked at the engineering and long term maintenance costs, it was worth it. Once it’s in, it’s done."

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Stormwater management in the built environment
Clean Water Services’ Field Operations Facility
2025 SW Merlo Court, Beaverton

The Field Operations Facility’s design and landscape features protect local streamers and wetlands. Built in 2003, the facility has an exceed, porous, pavements, and a "green" storm that replaces traditional soils and gutters with vegetated swales that slow water and reduce pollutants. All water is treated on the site with native plant landscaping and shallow swales that capture and treat rainfall runoff while providing important food and cover for birds and other wildlife. Everything we’ve done is designed to slow down or treat surface water runoff from the site, said Chris Bowles, field operations technician.

"It takes a lot of concrete to provide safe and convenient access to the popular recreational playfields located behind Hopkins Elementary School. A traditional approach would have required over 1,000 feet of pipe and a stormwater detention facility that would have taken away valuable field area. The solution was to use porous concrete. The 2003 installation, the first ever for Glacier Northwest, cost around 30 percent more than traditional concrete, but saved significant time, money and space. Gene Thomas, senior project manager for the City, said, “This is an in-town field with no space for a treatment facility. We didn’t want to lose any play fields. It looks and works great, and maintenance is pretty easy, we just power wash it now and then.”

Lattice Semiconductors Corporate Headquarters
5555 NE Moore Court, Hillsboro

Space was tight when Lattice Semiconductors built its corporate headquarters in 1999. "Instead of traditional stormwater strategies, we created an artistic design with porous parking areas and a rock garden swale that captures and filters our runoff," said project manager Mike Hirsch. Uni-Stone® concrete pavers can also be seen along the length of the parking lot behind the headquarters in 1999. "Instead of traditional stormwater strategies, we created an artistic design with porous parking areas and a rock garden swale that captures and filters our runoff," said project manager Mike Hirsch.

"We wanted to show that pavers could reduce runoff and be cost effective in the long run. Maintenance has been almost non-existent. One brick had to be replaced, and that was easy."

Traditional Japanese gardens meet non-traditional stormwater design
Lattice Semiconductors Corporate Headquarters
5555 NE Moore Court, Hillsboro

Like a Japanese garden, the swale designed by Sadafumi Uchiyama for Kurisu International uses rock and stone functionality and aesthetics. He said, “The system is working almost exactly as I had hoped. The only maintenance was hand seeding until the trees began providing shade.”

"The system is working almost exactly as I had hoped. The only maintenance was hand seeding until the trees began providing shade.”