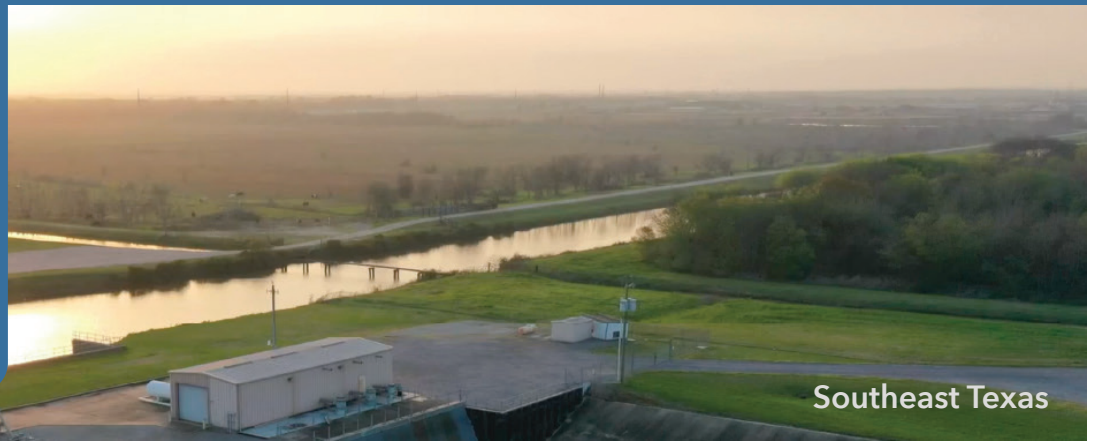


Pervious Concrete Pavement Systems

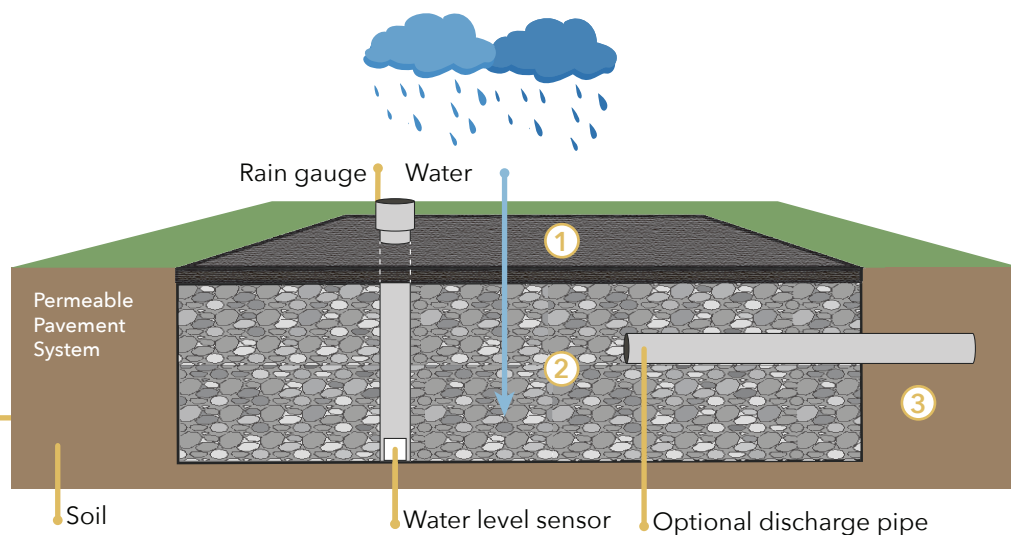


Southeast Texas

What are pervious concrete pavement systems?

They are paved areas made of a special type of pervious concrete that's engineered to let water pass through it and into stormwater systems or underlying soil. There are three layers to a permeable pavement system:

1. The pervious concrete on the surface.
2. A layer of narrowly graded gravel below ground for water storage.
3. The soil of the ground beneath.



A pervious concrete pavement test site.

Photo by Mitchell B. Fountain.



Testing water absorption into pervious concrete pavement.

Photo from SETx-UIFL.

Significance and Impact

Research shows that using pervious concrete and other permeable pavement systems can lessen the impact of flooding events by providing an alternate route for water drainage. At Lamar University we have installed rain gauges and water level sensors at test beds to gather more local information on how pervious concrete pavements might be integrated into our communities in southeast Texas to lessen flooding.



SETx Urban Integrated Field Lab is funded by the U.S. Department of Energy. For more information, scan the QR code to visit setx-uifl.org.



Citation: Haselbach, L., Fountain, M., Toosi, G., & Asli, H. H. (2024). Efficacy of underground aggregate infiltration beds under a permeable pavement system. *Discover Water*, 4(1), 117.

