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Case studies for permeable pavement



This page contains interesting stories about **permeable pavement** (https://stormwater.pca.state.mn.us/index.php?title=Permeable_pavement).

Green Infrastructure: Permeable pavement can be an important tool for retention and detention of stormwater runoff. Permeable pavement may provide additional benefits, including reducing the need for de-icing chemicals, and providing a durable and aesthetically pleasing surface.

Caution: Reference herein to any specific commercial products, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the Minnesota Pollution Control Agency.

- The City of St. Paul constructed two way, off street bike trails along portions of Jackson Street, Kellogg Boulevard, St. Peter Street, 9th Street and 10th Street using porous asphalt. For more information link here (<https://www.stpaul.gov/departments/public-works/transportation-and-transit/bike-saint-paul/capital-city-bikeway>).
- The City of Shoreview has 5 permeable pavement installations. The Dale Street Alley has 12 foot wide pervious concrete; the intersection near Shamrock Park has porous asphalt; the Woodbridge Neighborhood has pervious concrete; the public works facility has pervious concrete and the Oakridge Avenue project uses a 20 foot wide permeable concrete block system (PaveDrain). For more information see the following links.
 - PERVIOUS CONCRETE PAVEMENT REDUCES RUNOFF INTO SHOREVIEW LAKE (<https://mntransportationresearch.org/2018/08/22/pervious-concrete-pavement-reduces-runoff-into-shoreview-lake/>)
 - How a Twin Cities Suburb Has Led The Way With Permeable Pavement (<https://nextcity.org/urbanist-news/how-a-twin-cities-suburb-has-led-the-way-with-permeable-pavement>)
 - Seven Year Performance of City of Shoreview's Pervious Concrete Project (<http://www.dot.state.mn.us/research/reports/2017/201747.pdf>)
 - Shoreview Pervious Concrete Success Story (<https://www.youtube.com/watch?v=onLhOrSoRLQ>) (YouTube video)
- Ramsey Washington Metro Watershed District office has 2 permeable pavement installations. Porous asphalt was installed at the District Office in 2005. For details about this application, go to the Watershed District's web site (<https://rwmwd.org/projects/district-office-site/>). Additionally, in 2014, the District installed a PaveDrain system on an acquired portion of their existing property. At the time PaveDrain permeable pavers



A bike lane in St Paul MN

were a relatively new product and the District was interested in using them as a demonstration project.

- The City of Waconia has two permeable (PaveDrain) systems in place. One is located at Fountain Park (<https://test-bmenk.bolton-menk.com/real-solutions/civil-municipal-engineering/waconia-fountain-park-pond-improvements/>) and the other is at the Iron Tap Brewery.
- The City of Maplewood (<http://maplewoodmn.gov/455/Pervious-Pavement/>) has three permeable pavement systems: Maplewood Public Works parking lot, Geranium Park parking lot and Maplewood Nature Center.
- City of Plymouth porous pavement and reinforced turf (<https://www.legacy.mn.gov/projects/400-project>)
- The Effectiveness of Permeable Pavers (<https://www.mnla.biz/blogpost/1133911/195198/Effectiveness-of-Permeable-Pavers>) (Minnesota Nursery and Landscape Association newsletter).
- Stillwater permeable pavement links
 - Holey pavement—it excites me (https://www.hometownsource.com/stillwater_gazette/opinion/columnists/holey-pavement--it-excites-me/article_d1ef297d-a4a6-53db-b515-8b4d2f4eba42.html)
 - Permeable Pavement for Road Salt Reduction (<http://www.dot.state.mn.us/research/reports/2020/202015.pdf>)

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Permeable Pavers at Ramsey Washington Metro Watershed District. Photo Courtesy of Paige Ahlborg

Related pages

- Overview for permeable pavement
- Types of permeable pavement
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- Construction specifications for permeable pavement
- Assessing the performance of permeable pavement
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- Calculating credits for permeable pavement
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- References for permeable pavement
- Fact sheets for permeable pavement
- Requirements, recommendations and information for using permeable pavement BMPs in the MIDS calculator

Permeable pavement main page (https://stormwater.pca.state.mn.us/index.php?title=Permeable_pavement)

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