UTGERS New Jersey Agricultural Experiment Station



"Pervious Pavers, Normandy Parking Lot Cherry Hill Parsippany-Troy Hills, NJ"

Rutgers Cooperative Extension Water Resources Program Rutgers Cooperative Extension of Morris County

Implementation Troy Brook,

Project implemented under grant provided by NJDEP under Section 319(h) of the Clean Water Act RP08-056



Implementation Troy Brook

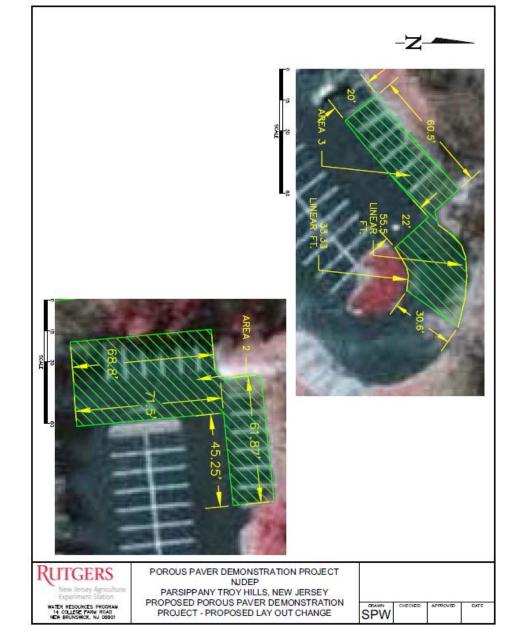
Project implemented under grant provided by NJDEP under Section 319(h) of the Clean Water Act to Rutgers Water Resources Program Grant Identifier RP08-056

This is one of six projects being implemented under this grant to help reduce stormwater runoff by disconnection of impervious surfaces in the Troy Brook Watershed. This project is based upon the Troy Brook Regional Stormwater Management Plan – Part B (Voluntary Measures).





Design plan



Porous Pavement was planned to infiltrate area surrounding the catch basins, not the entire parking lot. This demonstration project allowed investigation of the ability of the porous pavement to infiltrate the entire parking lot without the additional cost of using porous pavement on the entire parking lot.



Precipitation January 25, 2010

- Based on USGS data for Lake Hopatcong
- 2.19 inches in 12 hours
- 2.46 inches in 24 hours

Parking lot



Despite the rain the pavement is basically dry.



Small amount of puddling across the entire lot.



The water is making its way to the porous pavement.



Collection of sediment, will need to be maintained. Better here than the basin and stream.



Pathway to the porous pavement



How is the stream doing? Below BMP



How is the stream doing? Below BMP



How is the stream doing? Below BMP



How is the stream doing 30-m downstream?

 This section of the stream also receives flow from a pond on the property. Therefore the flow is not representative of the difference between BMP installation and no BMP. However the stream just below the BMP previously flowed violently during storm events, and at a minimum it is not contributing as significantly to this major flow. Without funding to do further sampling and modeling and reliant upon visual assessments we can at least observe a significant difference and note that some of that difference is due to the installation of the pervious pavers in the parking lot on the upstream section.





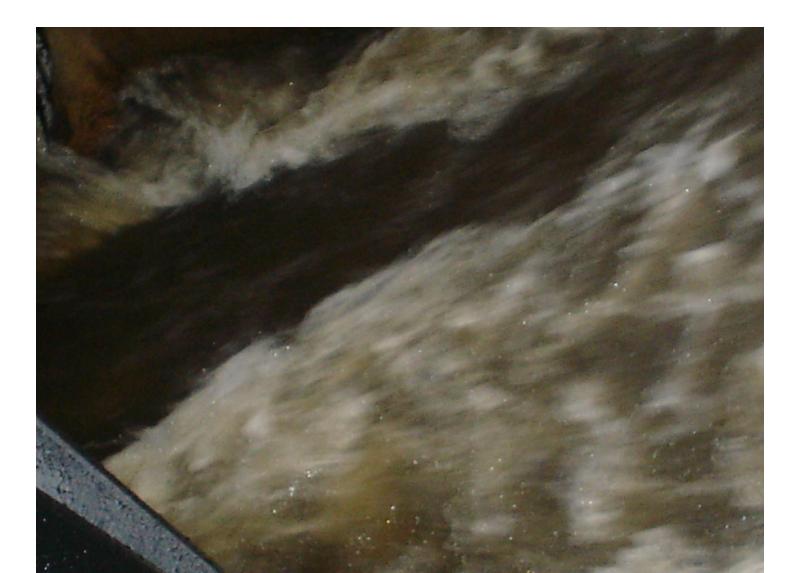














For further information

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