

# Route 63 Ramp Stormwater Quality Case Study



The Midwest's Most Trusted Site Solutions Provider

Project: Route 63 MoDOT Exit Ramp

Location: Columbia, MO

Application/Solution: Water Quality Treatment using Focal Point

Market Sector: Municipal

Salesperson: Todd Noble

Owner: Missouri Department of Transportation

Engineer: Missouri Department of Transportation

Installed: July 7, 2014

## Challenge

The Missouri Department of Transportation was being asked by several local and state agencies to make an effort to reduce the level of pollutants flowing into Hinkson Creek, an impaired water way as defined by the EPA and their 303D list. The drainage area upstream was approximately 1 acre and we were to treat the first 1" of rain.

## Solutions

Focal Point was selected as an appropriate option both for its cost and its effectiveness. A 4'x5' configuration of Focal Point was the appropriate size. Focal Point is a high performance bio-filtration system that includes the first years maintenance and a 1 year warranty to treat at a rate of 100" per hour per square foot. The 20 square feet of Focal Point was installed along the road edge in a currently eroding ditch.

## Results

In a matter of 6 hours of work, the Focal Point system was installed with 3 personell from MoDOT and 2 people from ASP Enterprises. When completed, there was concern for a major storm to hit that evening so the system was enclosed in fabric and all water would then bypass over the emergency drainage swale. That evening, the location recieved a 1" rain event in a matter of 2 hours and the Focal Point system remained unharmed. That next day, the system was opened up and commisioned for use. MoDOT has a future project to be installed in the near future.



1 The outlet pipe was located with the proper 1% fall.



2 The underdrain system is installed and ready for pea gravel.



3 Installing the energy dissipating gabion weir.

case study

# Route 63 Ramp Stormwater Improvements Case Study continued



## Products

Focal Point High Performance Biofiltration system  
Components:

PVC Pipe-4"

Atlantis D Raintank for underdrain

Mirafi Miramesh and 160N

3/8" Pea Gravel

6" Maintenance Port

Flexamat Tied revetment mat for spillway

Profile Cover Grow seed mulch

Gabion and rock for fill



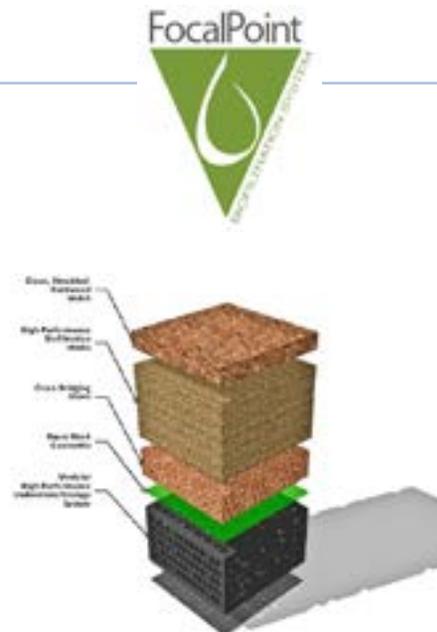
**4** Completed Focal Point with Spillway overflow, seeded berm and upstream energy disipation.



**5** The morning after install, note the value of the geotextile before commissioning.



**6** After the rainevent, no erosion took place and the system was not inundated with sediment.



Focal Point Cross Section



**7** 1 month later, spillway is growing in well and system is performing well.

## Company Information

ASP Enterprises, Inc. and Quick Supply Co. For more than three decades, A.S.P. Enterprises and Quick Supply Co. has served the erosion control industry with integrity and expertise. We provide engineers and landscape contractors the exceptional value for their money and have grown to become the Midwest's full-line distributor of erosion-control, geosynthetics, storm water management products, wall block, landscape pavers, and drainage products.

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