



Clean Water. Healthy Life.

BEST PRACTICES *for* STORMWATER MANAGEMENT IN METROPOLITAN KANSAS CITY

CONSTRUCTED WETLAND

Leo G. Koehler Constructed Wetland, 34900 E. US 40 Hwy, Grain Valley, Missouri

Goals

To treat runoff from ten acre vehicle maintenance facility and to mitigate excess water caused by peak flows in the tributary adjacent to Sni-a-bar Creek.

Description

The project is located in a bottomland area adjoining the Leo G. Koehler Vehicle Maintenance Facility, operated by Jackson County. The project is intended to collect stormwater and any pollutants from the facility. Stormwater management, sediment control, pollutant removal by native plants, and improved habitat are expected to be direct results of this project. While the wetland is completed, the plantings have not fully established. Peak performance from the wetland is expected in the next one to three years.

The wetland interacts with the adjacent stream, offering a diversion in high water situations, and providing unique habitats for plants and animals.

Community Benefits & Lessons Learned

The wetland will provide the community with better water quality through retention and filtration. The public will have the opportunity to learn, experience, and explore a passive educational wetland/wet meadow located within the Monkey Mountain Nature Preserve. Small fish, frogs, and a variety of birds have already begun using the wetland.

The county contracted with Tetra Tech EM Inc. for the plans and completed work using county equipment and employees. This created a beneficial partnership using appropriate expertise when necessary, but performing the work in house when possible.

Funding Sources and Partnerships

Funding provided by Jackson County, MO. Assistance and materials provided by the Missouri Department of Conservation, Missouri Department of Natural Resources, Patti Banks Associates, Tetra Tech EM Inc., and The Watershed Institute.

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Construction of the wetland will mitigate excess water flows into Sni-a-bar Creek.



Sediment forebay provides some pretreatment of stormwater.



Early growth of wetland plantings is already attracting wildlife.