



2018 INAFSM TOUR OPTIONS

WEDNESDAY – 1 TOUR OPTION

Sept. 5 - 8:45 a.m. to 10:00 a.m.

GREEN INFRASTRUCTURE WALKING TOUR

Meeting Location: MLK Hotel Entrance

Tour Guide:

- Brian Brown, EMH&T Senior Water Resources Engineer

Since 2013 the Evansville Water and Sewer Utility has pursued green infrastructure projects to help reduce stormwater in the combined sewer system that causes sewer overflows to occur dumping untreated sewage into the streams and rivers. The first project was initiated during a parking lot repaving effort of the main municipal parking lot down town. When that project produced remarkable results a Green Infrastructure Participation Policy (GIPP) was put in place to encourage and incentivize public and private projects to install green infrastructure. That policy pays up to \$0.20 per annual gallons of storm water removed from the downtown combined sewer system (CSS). This equates to approximately \$250 thousand per acre of drainage area removed from the CSS. This walking tour will focus on 4 to 6 of the projects. Some of those projects include the "Back 40" Parking lot which started the whole program, Professionals Plaza Parking lot, Vine Street Parking lot and the Martin Luther King Jr Blvd Infiltration Project that is at the hotels front doorstep. To date, almost \$4.9 million been expended on downtown GI projects and another \$9.3 million is encumbered on projects under construction or design at the moment.

FRIDAY – 2 TOUR OPTIONS

Sept. 7 - 1:15 p.m. to 2:45 p.m.

OPTION 1 –

POSEY COUNTY TWO-STAGE DITCH AND ENGINEERED ROCK RIFFLE

Meeting Location: MLK Hotel Entrance – Be there by 1:00 to pick up maps.

Drive time is about 30 minutes for a 1:45 p.m. start time for the tour.

Tour Guides:

- Carrie Parmenter, Posey County Soil and Water Conservation District Technician
- Brad Smith, The Nature Conservancy Lower Wabash and Wetlands Program Director
- Scott Wagner, Natural Resource Conservation Service Agricultural Engineer
- John Stofleth, CBEC, Inc. Eco Engineering Senior Hydrologist

Posey and Vanderburgh County Soil and Water Conservation Districts (SWCD) partnered with Clean Water Indiana, Lake and River Enhancement, IDEM, The Nature Conservancy, NRCS, Posey County Drainage Board, Posey County Surveyor, landowners, farmers, construction contractors & Vectren Energy to secure funding and create a stable stream system that addressed the needs of all partners.

All partners agreed that the ditch needed stabilized, but there were varying opinions on the proper method. In the end the two-stage ditch was selected as the appropriate design to address multiple resource concerns



2018 INAFSM TOUR OPTIONS

simultaneously. After the design was agreed upon, difficulties were encountered when the design team concluded the integrity of the two-stage ditch would be jeopardized unless the entire stream was stabilized. To address this complication, new partners were brought in and the project expanded to provide a comprehensive solution for the entire lateral.

The final product is a conservation showcase that demonstrates how agriculture and conservation can coexist when lasting partnerships are established.

Sept. 7 - 1:15 p.m. to 2:45 p.m.

OPTION 2 – WARRICK COUNTY SWCD STORMWATER URBAN BMP DEMONSTRATION SITE

Meeting Location: MLK Hotel Entrance – Be there by 1:00 to pick up maps.

Drive time is about 30 minutes for a 1:45 p.m. start time for the tour.

Tour Guide:

Andrew Smith, Warrick County Soil & Water Conservation District Urban Conservationist

This exhibit was constructed in 2018 by the Warrick County Soil & Water Conservation District using funds provided by an Indiana Department of Agriculture Clean Water Indiana Grant. This interactive exhibit is designed to allow the public to see tangible examples of conservation practices and includes small plots emphasizing soil health through the use of conservation tillage, cover crops, and crop rotations, pollinator plots, xeriscaping, a rain garden, and rainwater harvesting. SWCD staff and other interested parties utilize the space as a teaching tool. The main feature of the exhibit is the nearly 1,110 square foot rain garden which includes over 400 native plants. The garden collects water from a drainage area of nearly 6,000 square feet including a large parking area. Although the existing soil passed the infiltration tests, 4 inches of compost was added to improve the ability of the soil to store and release collected water. The rain garden has been put to the test this spring and summer and performed well. A 4-inch drain pipe was added to allow excess water to escape following rain events of more than 1 inch.