

NPDES OUTFALL INSPECTION PLAN

Intent

General NPDES Permit No. ILR40 Part 5, Section A, requires monitoring of receiving streams and the effectiveness of the city's current stormwater program. As such, the City of East Moline investigates six outfall locations along the Mississippi River. East Moline does not have direct discharges along the Rock River at this time, so it is excluded from inspection until further notice. The sampling points are selected based on their location within the city, activities along the inspection point's watershed, potential impact of that watershed, and accessibility. The selected inspection points allow for a true representation of what the city alone is contributing, as opposed to conditions from the upstream communities mixed in with the City of East Moline's contributions or from independently permitted industry.

Sample Locations

Mississippi River Inspection Points

There are six (6) inspection point locations along the Mississippi River watershed. For all points except Gatewell L, discharges are collected through a series of pipes, collected in wet wells, and pumped station through the USACE certified levee system. During times of gravity flow, discharges are still collected through pipes and directed through a wet well prior to discharge to the Mississippi River. The wet wells are the first line of defense for capturing lightweight pollutants, settled pollutants, as well as and many solid-state pollutants. Wetwells are be observed along with the actual discharge points on the Mississippi River side of the levee. All observation locations collect runoff from a combination of pipes, streets, unimproved roads, residential and non-residential areas, and ravines.

Gatewell L is a series of box culverts that gravity flows from Sugar Creek to the Mississippi River during lower river levels. During higher river levels, the gates at the box culverts are closed and flow goes through a wetwell and is pumped through the levee and discharges to the Mississippi River. Discharges to Sugar Creek, and ultimately through this discharge are a mix of open undeveloped land, unimproved roadways with roadside ditches, and paved surfaces with pipes and inlets.

See attached map for inspection point locations.

Rock River Sampling Locations

Direct discharges from the western portion of the City of East Moline currently discharge to ravines that flow through City of Moline properties and storm sewer systems. Annual inspections of the city discharge pipes are performed as part of the city's IDDE program. The northeast portion of the City of East Moline has a small amount of jurisdiction near the Rock River but the properties abutting the river are unimproved farmland under Rock Island County jurisdiction. Direct discharges within the City of East Moline jurisdiction are inspected annually as part of the city's IDDE program.

Analytical

The City of East Moline has a population of 21,300. As directed by Section A(2)(a) of the MS4 permit, the City of East Moline will perform visual inspections at each observation point specified above. Each inspection is conducted during weather conducive for flow as well as proper inspection if possible. Each point is visually inspected for color odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

The Mississippi River and Rock River pools adjacent to the City of East Moline are not listed under Section 303(d) of the Clean Water Act. Collection and testing will be performed if a contaminant is suspected or if the section of receiving water is placed on the 303(d) list.

Results

Results are recorded on inspection sheets and compared to previous sampling events. Observations are reviewed for trends and effectiveness of the City of East Moline's stormwater program. Extraordinary results or extreme fluctuations are scrutinized, and the program will be adjusted accordingly. This plan and results will be incorporated into the city's annual inspection report posted on the city's stormwater website.

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