Capital Improvement Project
Hastings: 15th St. and Bailly St. TSS Reduction



Figure 1. Aerial map of the land where an infiltration basin was installed in Hastings near Bailly St., demarcated in yellow.

The Vermillion River Watershed Joint Powers Organization (VRWJPO), in partnership with the City of Hastings and Dakota County, is working to systematically reduce discharge of total suspended solids (TSS) and total phosphorus (TP) from reaching the lower Vermillion River. The intersection of 15th St. E. and Bailly St. is an older area near downtown Hastings with little to no stormwater treatment for its impervious surfaces, as it was developed before modern stormwater treatment requirements. This area discharges stormwater runoff into the lower Vermillion River, listed by the Minnesota Pollution Control Agency as impaired for TSS.

In June 2026, the partners installed an infiltration basin on City property draining 43.4 acres, about 43% of which consists of impervious surface, to remove TSS and TP from stormwater before it discharges into the Vermillion River. An infiltration basin is an engineered sump or earthen depression which can improve stormwater quality by filtering runoff using vegetation, filter soil media, and, if applicable, imported amended soils, into the underlying soils. This project was funded in part by a FY24-25 Watershed-Based Implementation Fund (WBIF) grant from the Minnesota Board of Water & Soil Resources (BWSR), distributed from the Minnesota Clean Water Fund.

Updated 8/2026

Partners:

- VRWJPO
- City of Hastings
- Dakota County
- BWSR

Installation: June 2026

Location: Hastings

Subwatershed: Mississippi Direct

Costs and Contributions (anticipated):

- VRWJPO: $120,445
- City of Hastings: $2,500
- Dakota County: $5,000
- BWSR: $197,055 in WBIF grant funds

Benefits:

- The project will reduce an estimated 2.9 tons/year of TSS and 9.1 lbs./year of TP from flowing into the Vermillion River.
- Continued improvements to the Vermillion River support recreation in the area, including fishing, kayaking, and biking on the developing Vermillion River Greenway.



Figure 2. The infiltration basin under construction, June 2026.

A grant from the Clean Water Fund, one of four funds established by the Clean Water, Land & Legacy Amendment, supports this project. Clean Water Stories can be found on the Minnesota Board of Water and Soil Resources website.

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