



PROJECT:

Village of Opole

Leading the way with sustainable solutions

LOCATION

Stearns County, Minnesota

PROJECT TYPE

Municipal

WASTE TYPE

Residential

DESIGN FLOW

9,000 GPD

TREATMENT

Subsurface flow wetland with
Forced bed aeration

NEED

Opole, a small community north east of St Cloud had an old tile line through the town that discharged untreated wastewater to a nearby stream. Several residents organized the community to seek funding, hire an engineer and construct a decentralized wastewater treatment and disposal system.

SOLUTION

The system started with a new gravity sewer collection for sanitary waste while keeping the existing tile line in place for stormwater and basement footer drains. A two-cell, subsurface flow constructed wetland was built for treatment. The wetland utilized forced bed aeration for enhanced treatment. The treated wastewater is then discharged to a multi-zoned bed infiltration system. The uniquely engineered system required that the only pumping of the water is for disposal.

BENEFIT

The community is now the fortunate recipient of a passive, low maintenance, wastewater treatment system. It was designed with additional capacity for future growth.



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