

Saw Mill Run Stream Restoration
1010-FM-GC0001d
Grantee: Municipality of Bethel Park

PROJECT DESCRIPTION - The Saw Mill Run Restoration project included constructing stream restoration best management practices (BMPs) along approximately 400 LF of stream. These BMPs included engineered Rock Vanes, Root Wads, Log Vanes, J Hooks and other natural techniques. Project timeframe: 9/9/2021 to 11/30/2021.

PROJECT GOALS - Address impairment related to urban runoff/storm sewers and water flow variability by reducing the sediment and phosphorus loading to the stream, improving stream channel flow conditions, improving aquatic habitat conditions.

PROJECT RESULTS – Construction of 1 Rock Cross Vane, 1 Rock Cross Vane with Step, 3 Rootwads, 1 Boulder Cascade, 1 Rip-rap Outlet Protection, 2 Single Wing Log Vane. And 250 LF Branch Layering. Result in 40,250 pounds of sediment removal based on restoration length.

WATER QUALITY	PRETREATMENT DISCHARGE	POST TREATMENT DISCHARGE
Sediment		40,250 lbs./year Reduction
Phosphorus		21.1 lbs./year Reduction

*Sediment removal based on the length of stream restoration project

**Based on 1.05 lbs. of Phosphorus reduced per 1 ton of sediment removed standard

Before Treatment (Stream Bank Erosion)



After Treatment



PROJECT COSTS – Total \$99,700.00; \$18,000 Growing Greener, \$81,700 Bethel Park

LESSONS LEARNED – Energy dissipation structures are crucial for mitigating stream bank erosion and stabilizing stream banks.

PARTNERS – The Gateway Engineers, Inc.

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