



Lutley Creek Erosion Control Corporation of Delta

The Corporation of Delta retained the services of Urban Systems to evaluate and implement a solution to stabilize the Lutley Creek channel between 92nd Avenue and 96th Avenue. This channel is located within a BC Hydro ROW and also parallels the SRBC railway. The channel was historically realigned from its natural form to facilitate development. Gabion baskets installed in the 1970's had disintegrated, leaving the channel unprotected. The underlying silts were gradually eroded, resulting in significant down cutting up to 2.5 meters. Servicing a large urban catchment, the flow regime was highly variable, responding very quickly to a change in rainfall. Limited site access, high design flows, and agency approvals were added challenges. Construction was successfully completed in the summer of 2004 using a step pool configuration to tame the high flows and velocities, combined with willow and dogwood whip plantings for bank restoration.



KEY PERSONNEL

Glen Shkurhan

SCHEDULE

2002 – 2004

client
Corporation of Delta

project
Lutley Creek Erosion Control

services
Evaluation, Design and Construction

year
2004

file
6.1106.0019.02