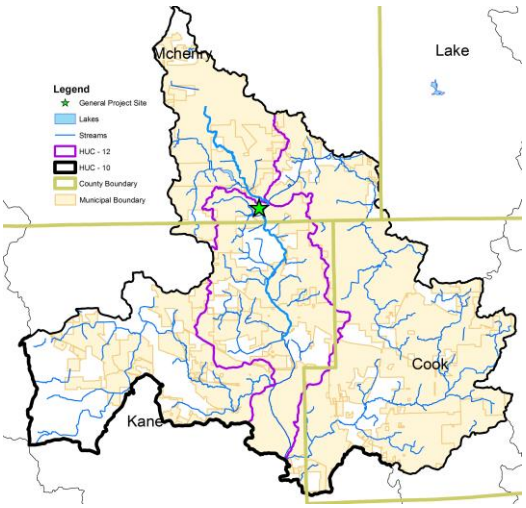
ILLINOIS EPA PROJECT COVER SHEET
SECTION 319 FFY2016

PROJECT TITLE (include application number):

Woods Creek Streambank Stabilization and Restoration (16A02)



SUB-RECIPIENT (Organization, address, phone number, contact name):

Village of Algonquin
2200 Harnish Drive
Algonquin, Illinois 60102
847-658-2759
Ms. Michele Zimmerman, Assistance Director of Public Works

TOTAL PROJECT COST: $ 785,822.00
319 FUNDS: $ 471,493.00
LOCAL FUNDS: $ 314,329.00
MATCH RATIO and SOURCE:
60% Federal – 40% Local (Village of Algonquin)

PROJECT TIME FRAME (months): 24

PROJECT SUMMARY:

This project will construct a two-stage ditch to stabilize both banks (6,208 linear feet) of a 3,104 linear foot segment of Woods Creek, a tributary of Lake in the Hills (IL_RTZZ), located north of County Line Road in Algonquin, Illinois. The channel will be widened and a floodplain shelf installed on both banks along with a riparian buffer of deep-rooted, native vegetation. Stone toe protection will be installed on sections of the two-stage ditch to provide additional streambank stabilization. Also, eight rock riffle grade control structures will be installed within the two-stage ditch to prevent erosion of the streambed. Four information/educational signs will be strategically placed along the adjacent bike/walking path and pedestrian bridge at the downstream end of the project.

- OUTPUTS:
  - 6,208 feet of streambank stabilization.

- OUTCOMES:
  - Water quality protection of Woods Creek and restoration of Lake in the Hills (IL_RTZZ).
  - Reduced annual pollutant loadings of approximately 372 tons of sediment, 376 lbs of phosphorus, and 770 lbs of nitrogen.

Pollutant	Load Reduction Recommended By Plan	Load Reduction Achieved by Project	% of Plan Recommended Load Reduction Achieved by Project
Sediment (tons/year)	1,746	372	21.3
Phosphorus (pounds/year)	1,789	376	21.0
Nitrogen (pounds/year)	5,234	770	14.7

Items contained in the application that will NOT be part of the 319 project:

None.

Illinois' Nonpoint Source Management Program Milestones Addressed by Project:

A2, A3, A5, A6, B2.

Notes of interest:

- This project is in HUC 07120006, which is an Illinois EPA priority watershed for NPS implementation activities this year (FFY2016).
- This project is in a priority watershed to reduce nutrient loss (Point Sources-Nitrate & Phosphorus).
- A Phase 1 Diagnostic / Feasibility Study for Lake in the Hills was completed in 2000.
- Continued implementation of the *Woods Creek Watershed Based Plan* through Section 319 and other funding sources is anticipated.

HUC or Segments Addressed:

HUC 071200061201; Segment: IL_RTZZ Lake in the Hills.

Watershed-based Plan to be Implemented:

Woods Creek Watershed-Based Plan – A Strategy for Protecting and Restoring Watershed Health. January 2013. Applied Ecological Services, Inc.

Check all that apply to the application:
☐ Information/education
☐ Watershed-based Planning
X Watershed-based Plan Implementation
☐ TMDL Implementation
☐ Demonstration Project
☐ Monitoring
☐ Technical Assistance
☐ Research
☐ Other