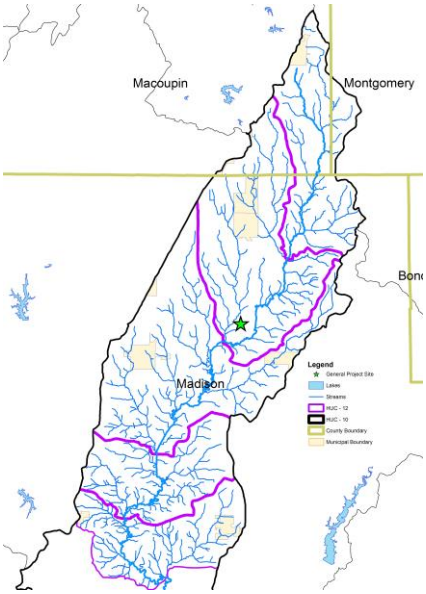
ILLINOIS EPA PROJECT COVER SHEET
SECTION 319 FFY2016



PROJECT TITLE (include application number):

Upper Silver Creek BMP Implementation (16A38)

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

HeartLands Conservancy
406 East Main Street
Mascoutah, Illinois 62258
618-566-4451
Ms. Janet Buchanan, Environmental Policy and Planning

TOTAL PROJECT COST: $ 953,626.00
319 FUNDS: $ 572,131.00
LOCAL FUNDS: $ 381,494.00
MATCH RATIO and SOURCE:
60% Federal – 40% Local (National Great Rivers Research and Education Center, Madison Co. SWCD, Madison Co. Planning & Development Department, Landowners)

PROJECT TIME FRAME (months): 24

PROJECT SUMMARY:

This project will implement best management practices (BMPs) in the Upper Silver Creek (IL_OD-06) watershed (HUC 071402040501, 071402040502, 071402040503, 071402040504, 071402040505, and 071402040506) to reduce nonpoint source pollution, soil erosion, and nutrient and sediment loadings in order to improve water quality. BMPs will include five acres of grassed waterways; ten ponds; 1,500 linear feet of stream channel stabilization; 1,500 linear feet of streambank stabilization; 9,000 feet of terraces; one livestock waste management system; and 15 water and sediment control basins (3,000 feet). The project includes an education and outreach component involving a workshop, tours, cover crop demonstrations, mailings, and flyers. Water quality monitoring (sediment and phosphorus loads, nitrogen, manganese, and dissolved oxygen) will be conducted to assess the effectiveness of agricultural and urban BMPs implemented in the watershed. Continuous monitoring at USGS gage 05594450, located on the main stem of Silver Creek near Troy, Illinois will provide a broad reading of the effects of land management practices on surface water quality throughout the year and compared to past data collected from 1974 to 2011. Additionally, secondary monitoring stations will be established upstream from the USGS gage to identify the relative contributions of HUC14 watersheds to overall water quality in the larger watershed. Sampling locations will be identified near the outflow of each HUC14 and water samples will be collected quarterly to determine seasonal variations in water quality. Additional sampling will be done during major storm flow events.

- OUTPUTS:
  - Five acres of grassed waterways; ten ponds; 1,500 linear feet of stream channel stabilization; 1,500 linear feet of streambank stabilization; 9,000 feet of terraces; one livestock waste management system; and 15 water and sediment control basins (3,000 feet).
  - Quality Assurance Project Plan (QAPP) & water quality monitoring.

- OUTCOMES:
  - Water quality restoration of Upper Silver Creek (IL_OD-06).
  - Estimated annual pollutant loading reductions were not included in the application and will be determined after the implementation of the proposed practices.

Pollutant	**Load Reduction Recommended By Plan**	**Load Reduction Achieved by Project**	**% of Plan Recommended Load Reduction Achieved by Project**
Sediment (tons/year)	12,046	TBD	TBD
Phosphorus (pounds/year)	66,238	TBD	TBD
Nitrogen (pounds/year)	176,744	TBD	TBD

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

None.

Illinois' Nonpoint Source Management Program Milestones Addressed by Project:

A1, A3, A5, A6.

Notes of interest:

- This project is in HUC 07140204, which is an Illinois EPA priority watershed for NPS implementation activities this year (FFY2016).
- Continued implementation of the *Upper Silver Creek Watershed-based Plan* through Section 319 and other funding sources is anticipated.

HUC or Segments Addressed:

HUC 0714020405; Segment: IL_OD-06 Upper Silver Creek.

Watershed-based Plan to be Implemented:

Upper Silver Creek Watershed-based Plan. November 1, 2015. HeartLands Conservancy

Check all that apply to the application:

☐	Information/education	X	Watershed-based Plan Implementation	X	Monitoring
☐	Watershed-based Planning	☐	TMDL Implementation	☐	Technical Assistance
		☐	Demonstration Project	☐	Research
				☐	Other