



Watershed Based Plan

11/21/2014

Little Sycamore Creek

Watershed Restoration Initiative



Claiborne County Soil Conservation District

Little Sycamore Creek

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Name of Project

Little Sycamore Watershed Restoration Initiative.

Lead Organization

Claiborne County Soil Conservation District.

Watershed Identification

HUC 12 Little Sycamore Creek 060102050902 located in Claiborne County TN.

Causes and Sources of Nonpoint Source Pollution in the Watershed

Little Sycamore Creek was added to the 2014 303(d) list with causes of total phosphorus, alteration in stream-side or littoral vegetative cover and Escherichia coli. The pollutant source listed is pasture grazing. Most agricultural operations in this area are beef cattle operations. The SCD and NRCS have been working with the landowners over the years installing BMPs through the Department of Agriculture and Federal EQIP funding. There are many landowners who would participate in the 319 program if available. Funding through 319 will help us better concentrate our efforts to protect the waters of Little Sycamore Creek.

Estimate of Load Reductions

It is estimated that the load reductions for the Little Sycamore Watershed due to the implementation of the following practices in the BMP/ List Educational Activities and Budget table is as follows:

Nitrogen (N) = 20,018.5 lbs. per year.

Phosphorus (P) = 2,835.9 lbs. per year.

Sediment = 757.5 tons per year

BMP List Educational Activities and Budget

BMP NAME	Quantity	Cost/Unit	Budget Estimate
Watering Facility	6	\$2800/each	\$16,800.00
Livestock Pipeline	6,075	\$2.77 /foot	\$16,827.00
Access Control Fencing	3,296	\$3.03/foot	\$9,971.00
Rotational Grazing Fencing	5,072	\$2.32/foot	\$11,767.00
Water Well	3	\$8,192/each	\$24,576.00
Pumping Plant	6	\$3,241/each	\$19,446.00
Spring Development	3	\$1,758 each	\$5,274.00
Heavy use Area Protection	5,265	\$3.97/square foot	\$20,902.00
Critical area Planting	10	\$1,297/Acre	\$12,970.00
Pasture Renovation	74	\$200/Acre	\$14,800.00
		TOTAL	\$153,333.00

Educational Event	Quantity	Cost/Unit	Budget estimate
Farm Tour	1	\$1,500.00/each	\$0.00
		TOTAL	\$0.00

TOTAL BUDGET FOR PROJECT	\$153,333.00
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Timeline Tasks and Assessment of Progress

Year of Plan	2015				2016				2017				2018				2019				
Quarter	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Activity																					
Outreach			X	X	X					X				X							
Farm Tour															X						
Agricultural BMPs																					
Implement Agricultural BMPs					X	X	X	X	X	X	X	X	X	X	X						
Evaluation																					
Meet with partners and make changes to the Plan if needed.			X		X		X		X		X		X		X		X		X		

Outreach will consist a community meeting in quarter 4 of 2015 and of ads in the local paper in quarters 2015-4/2016-1, 2, 3/2017-1/2018-1. A farm tour will be held in quarter 2 of 2018. BMPs will be installed throughout the contract. Partners will meet to evaluate progress every other quarter from 2015-4 to 2019-2.

Criteria to Assess Achievement of Load Reduction Goals

Progress will be measured by the installation of BMPs on agricultural lands that drain into Little Sycamore Creek. Before and after pictures of vegetation, ground cover, runoff and erosion will be reviewed to access reduction of the pollutant load.

Monitoring and Documenting Success

TDEC water quality data will be reviewed after the next monitoring cycle for Little Sycamore Creek to determine the success of BMP installation in the area.