

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: SCR_10_CMP11
Name: Silver Spring Creek Channel and Sediment Stability Assessment - SCR 10_11 (USGS # BQY36)
Type: Targeted Monitoring
Subtype: Newly Proposed
Status: COMPLETE
Start Date: 07/01/2010
End Date: 06/30/2011
Purpose: Silver Spring Creek is a potential cold water fishery in Lafayette County that is currently on the 303(d) list as a result of habitat degradation due to sediment. An assessment of erosion and sedimentation is needed, as well as establishment of baseline channel and sediment conditions. Using methods similar to the Kittleson Valley buffers initiative project, the USGS, WDNR, and county will cross section surveying and pebble counts at 3 sites on Silver Spring Creek.

This complements the channel assessment and habitat evaluation done in cooperation with the DNR and UW-Madison. To date, 5 sites have been surveyed twice in the Pleasant Valley watershed (2008 and 2009) and rapid channel assessments have been done at about 30 sites each in the Pleasant Valley and Smith-Conley subwatersheds. The rapid assessment includes detailed measurements of eroding banks and soft fine-grained sediment deposits.

Objective: Collect stream morphological data in order to determine the effects of TMDL implementation in a small subwatershed. This project will help determine the stream's response to sediment loads before, during, and after implementation of BMPs designed to reduce sediment loss from fields.

Comments:

Outcome:

- 1) Cross sections with permanent endpoints
- 2) Excel spreadsheet of cross sections, pebble counts, longitudinal profiles, and rapid geomorphic assessment results, estimates of bank erosion, historical overbank sediment, and in-channel fine sediment.
- 3) PowerPoint presentation updates at partnership meetings and possibly a regional conference.

We will gain empirical data that will link our biological and habitat measurements with long-term physical measurements.

All data will be made available on WATERS.

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
HANSIS, ROBERT D	COORDINATOR	ACTIVE	07/01/2010	06/30/2011	Wisconsin DNR	Faith Fitzpatrick will be replacing Bob when he retires.

Project Statuses

Date	Reported By	Status	Comments
03/04/2010	MOLLI MACDONALD	Proposed	
01/21/2011	ROBERT HANSIS	Progress: 75-100% Complete	Field work, lab analysis of sediment and preliminary data analysis has been completed by USGS. Some of the results were included in a talk given to the Geological Society of America in October, 2010.
06/14/2011	ROBERT HANSIS	Progress: 75-100% Complete	Some data analysis has been completed. Stored sediment has been found to be a huge component of the watershed sediment budget. Three valley cross-section surveys were completed in June, 2011.
06/20/2011	MOLLI MACDONALD	Progress: 75-100%	I was looking through the SWIMS worktables that holds all the

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Date	Reported By	Status	Comments
		Complete	data with problems. I found data which looks like 16 sediment core composite samples for your current Competitive Project on Silver Spring Creek. If I can get the coordinates for the sites, I can make stations. Or you can make stations. I have them sorted by field no. - SS1, etc. It looks like 16 stations are needed.
03/26/2012	JAMES AMRHEIN	Complete	Final report may be available from USGS.

Project Status Detail

Answer Set: DEFAULT

Question	Answer
1. Number of Sample Sites (Enter the station IDs if you know them).	3 sites on Silver Spring Creek
2. Number of Sample Events (Indicate how many trips into the field you anticipate for this project).	Contract with USGS will handle sampling events, meals, transportation, etc.
3. Proposed Dates for Sample Collection	Calendar year 2010.
4. List applicable databases and who will enter data?	Spreadsheets will be shared from USGS and entered into SWIMS. Bob Hansis is project manager.
5. Did you receive competitive projects funding in the previous year?	Yes
6. If yes to question 5, did you complete the projects including data entry and reports as necessary? If not, why not?	Data from those projects are still being gathered.
7. Reviewer Notes: Identify questions or issues with project (use during review period)	
8. Reviewer Decision: Is this project recommended for funding?	

Actions

Action	Detailed Description	Start	End Date	Status
TMDL Planning, Implementation	3 sites on Silver Spring Creek	*****	06/30/2011	PROPOSED

Monitoring Stations

Station ID	Name	Comments
10031660	Silver Spring 525m upstream of Pec. R.	
10037954	Silver Spring Creek 100ft US confluence	
10037949	Silver Spring Creek north of Hwy M	
10031346	Unnamed Tributary (5040863) to Silver Spring Creek	
10031345	Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd	
10031350	Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road	
10037952	Unnamed trib to Silver Spring Creek US Farm driveway	
10037953	Unnamed trib to Silver Spring Creek US of confluence	

Assessment Units

WBIC	Segment	Local Name	Official Name
917700	1	Silver Spring Creek	Silver Spring Creek
917800	1	Local Water	Unnamed
917900	1	Local Water	Unnamed
5040863	1	Unnamed Tributary to Silver Spring Creek	Unnamed

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Lab Account Codes

Account Code	Description	Start Date	End Date
WT107	Watershed Special Projects	05/27/2009	06/30/2010
WT117	STREAMS/RIVERS SPECIAL PROJECT	06/03/2010	06/30/2011

Forms

Form Code	Form Name
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Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
02/17/2010 10:59	COMPLETE	SS-FEB	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
03/18/2010 11:13	COMPLETE	SS-MAR	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
04/14/2010 11:15	COMPLETE	SS-APR	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
05/11/2010 11:19	COMPLETE	SS-MAY	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
05/25/2010 10:00	COMPLETE	SS-1	10031660	Silver Spring 525m upstream of Pec. R.
05/25/2010 10:00	COMPLETE	SS1	10031660	Silver Spring 525m upstream of Pec. R.
05/25/2010 13:00	COMPLETE	SS-2	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
05/25/2010 13:00	COMPLETE	SS2	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
05/25/2010 15:30	COMPLETE	SS-3	10031345	Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd
05/25/2010 15:30	COMPLETE	SS3	10031345	Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd
05/26/2010 09:00	COMPLETE	SS-12	10037954	Silver Spring Creek 100ft US confluence
05/26/2010 09:00	COMPLETE	SS-12	10037954	Silver Spring Creek 100ft US confluence
05/26/2010 11:00	COMPLETE	SS-14	10037953	Unnamed trib to Silver Spring Creek US of confluence
05/26/2010 11:00	COMPLETE	SS-14	10031345	Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd
05/26/2010 14:00	COMPLETE	SS-4	10037952	Unnamed trib to Silver Spring Creek US Farm driveway
05/26/2010 14:00	COMPLETE	SS4	10037952	Unnamed trib to Silver Spring Creek US Farm driveway
05/26/2010 15:00	COMPLETE	SS-5	10031350	Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road
05/26/2010 15:00	COMPLETE	SS-5	10031350	Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road
06/02/2010 10:00	COMPLETE	SS-15	10031545	Silver Spring Creek in Rolli Pasture (~400 ft E of Tish Rd)
06/02/2010 10:00	COMPLETE	SS-15	10031545	Silver Spring Creek in Rolli Pasture (~400 ft E of Tish Rd)
06/02/2010 12:30	COMPLETE	SS-13	10031545	Silver Spring Creek in Rolli Pasture (~400 ft E of Tish Rd)
06/02/2010 12:30	COMPLETE	SS-13	10031545	Silver Spring Creek in Rolli Pasture (~400 ft E of Tish Rd)
06/02/2010 16:30	COMPLETE	SS-7	10034755	Silver Spring Creek near Cherry Rd DS of fence line at wood
06/02/2010 16:30	COMPLETE	SS-7	10034755	Silver Spring Creek near Cherry Rd DS of fence line at wood
06/03/2010 10:00	COMPLETE	SS-10	10031345	Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd
06/03/2010 10:00	COMPLETE	SS-10	10031345	Unnamed Tributary (917800) to Silver Spring Creek at Tish Rd
06/03/2010 11:30	COMPLETE	SS-16	10031350	Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road
06/03/2010 11:30	COMPLETE	SS-16	10031350	Unnamed Tributary (917900) to Silver Spring Creek S of Walnut Road
06/03/2010 14:00	COMPLETE	SS-11	10034754	East Tributary to Silver Spring Creek east of CTH M

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Start Date	Status	Field ID	Station ID	Station Name
06/03/2010 14:00	COMPLETE	SS-11	10034754	East Tributary to Silver Spring Creek east of CTH M
06/09/2010 09:30	COMPLETE	SS-8	10037949	Silver Spring Creek north of Hwy M
06/09/2010 09:30	COMPLETE	SS-8	10037949	Silver Spring Creek north of Hwy M
06/14/2010 11:05	COMPLETE	SS-JUNE	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
07/06/2010	COMPLETE	SS-07062010 #1/2	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)
10/14/2010 09:43	COMPLETE	SS-OCT	10014238	Silver Spring Creek-Baseline Lower (at Silver Spring Rd)

Documents

Title	Description	Author	Published	Comments
Channel sources of legacy sediment in agricultural streams and implications for nutrient and biological impairments	PowerPoint showing sediment sources and sinks in driftless area streams including Silver Spring Creek	Hansis	10/02/2010	

Budget

Budget Description: Budget for Silver Spring Creek Channel and Sediment Stability Assessment - SCR 10_11 **Start Date:** 07/01/2010 **End Date:** 06/30/2011

Code	Description	Quantity	Units	Unit Cost	Total Cost	Comments
FTE	FTE Hours		Hours	\$0.00	\$0.00	
LTE SAL	LTE Salary		Hours	\$13.00	\$0.00	
LTE FR	LTE Fringe				\$0.00	
LTE IND	LTE Indirect				\$0.00	
LTE TOT	LTE Total Cost				\$0.00	
SUPPLY	Supplies				\$0.00	
MILEAGE	Mileage		Miles	\$0.72	\$0.00	
MEAL	Meals		Meals	\$9.00	\$0.00	
LODGE	Lodging				\$0.00	
TRAVEL	Travel Total				\$0.00	
BUG	Bug Contracts				\$0.00	
OTHER	Other Contracts	1		\$10,000.00	\$10,000.00	Contract with USGS
EQUIP	Equipment				\$0.00	
USGS	USGS Costs			\$6,700.00	\$0.00	USGS Match
TOTAL	Total Cost (excludes SLOH)				\$10,000.00	

Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost
I440NLD	AMMONIA (AS N), DISS (EPA 350.1)	INORGANIC CHEMISTRY	14	\$25.89	\$362.46
I460GLT	NITRATE + NITRITE (AS N) (EPA 353.2)	INORGANIC CHEMISTRY	14	\$27.89	\$390.46
I470DLT	TOTAL KJELDAHL NITROGEN (AS N) (EPA 351.2)	INORGANIC CHEMISTRY	14	\$32.99	\$461.86
I520PLT	TOTAL PHOSPHORUS (AS P) (EPA 365.1)	INORGANIC CHEMISTRY	14	\$23.60	\$330.40
I650JLT	SUSPENDED SOLIDS (EPA METHOD 160.2)	INORGANIC CHEMISTRY	14	\$18.80	\$263.20

Total SLOH Lab Costs: \$1,808.38
Total Budget: \$11,808.38

January 3, 2017

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Combined Budgets: \$10,000.00
Combined SLOH: \$1,808.38
Combined Total: \$11,808.38

Funding

Organization	Source	Type	Amount	Start Date	End Date
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