

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: ARRA_Project15 WTDO

Name: ARRA 15 Village of Sussex Spring Creek Grant 2P-00E73201

Type: Grant Project

Subtype: ARRA Pass Through Project

Status: ACTIVE

Start Date: 02/09/2010

End Date: 10/31/2010

Purpose: Spring Creek planning and study of culvert removals and stream restoration of Spring Creek, an impaired waterbody.

Objective: Develop a strategy to remove man-made barriers to this waterway and restore a natural stream flow pattern. Collect data to be used in a study on the water quality benefits and treatment of urban pollutants through restoration of natural stream segments in suburban areas, including the capacity for mitigating urban runoff impacts, through:

- ¿ more evenly-dispersed flow through natural meanders and in-stream vegetation during storm events as compared to piped systems;
- ¿ nutrient uptake by in-stream and nearby vegetation;
- ¿ incorporation of sediment into restored streambed;
- ¿ transport of ¿normal¿ amounts of sediment downstream, as compared to excessive scouring of streambed due to current ¿flashy¿ type of system
- ¿ evaporation and infiltration of runoff throughout the drainage area, rather than depositing excess water in the downstream reaches of the basin
- ¿ temperature stabilization

Comments: DUNS #: _____ CCR#: _____

Total project award: \$36,000

Outcome: A detailed plan describing the strategy for removing artificial barriers to the stream system which could be adopted by local units of government, to be used for development of infrastructure and downtown re-development planning. Recommendations from this plan could be adopted by other communities with similar stream obstacles. The study would determine if there is a water quality benefit to daylighting and restoring other stream segments in semi-urban communities by allowing runoff to be treated by the natural ecosystem, as opposed to directing water away to the nearest downstream surface water. Other previous studies around the country have primarily focused on the habitat values of daylighting projects, as opposed to water quality improvements. Results of this study could be considered in deciding other water quality projects to implement in the region.

Project Statuses

Date	Reported By	Status	Comments
04/16/2010	MAUREEN MCBROOM	Progress: 0-25% Comple	consultant has gathered field data; using this to begin designing preliminary alternatives before next meeting
07/14/2010	MAUREEN MCBROOM	Progress: 50-75% Compl	met with Village and Interfluve (consultant) to review preliminary conceptual drawings. analysis of field work and other information have determined recommended stream width, buffer size, and 2 potential realignment possibilities. Discussed potential funding sources, inclusion in possible TIF district plans, and potential incorporation into upcoming road reconstruction project. Meetings are tentatively scheduled for August - October to present info. to village's redevelopment group, the general public, and Village Board.
10/13/2010	MAUREEN MCBROOM	Progress: 75-100% Com	Developed 2 conceptual plan alternatives for daylighting Spring Creek; plans & details sent out to Village & Department staff for review and comment. Continuing with meeting planning.

Project Status Detail

Question	Answer
1. Reporting Timeframe (Q1 (Oct-Dec), Q2 (Jan-Mar), Q3 (Apr-June), Q4 (July-Sept):	Q4

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Question	Answer
2. Amount expended this time period:	
3. Subcontracts or subgrants awarded this period:	
4. Number work hours created or maintained to date:	
5. Work accomplished this reporting period:	Completed drafts of 2 conceptual plan alternatives, including memo, modeling, cost estimates cross sections & plan views. Distributed drafts for review and comment by Village and Department technical staff. Compiled comments for review & consideration. Continued meeting planning. Water quality study and community guide for similar projects currently under way.
6. Work goals for coming reporting period:	Evaluate comments received on draft plans; adjust conceptual plans accordingly. Present alternatives to redevelopment, DPW & village boards / committees. Complete water quality report & guide for communities on daylighting
7. Overall project status:	approximately 75% done; review of proposed alternatives, water quality information and proposed guide for other communities still needed.
8. WDNR Question: Job equivalent Created	

People

Name	Role	Status	Start Date	End Date	Organization	Comments
D ANTUONO, JAMES R	PROJECT_OFFIC	ACTIVE	10/03/2009		Wisconsin DNR	
MCBROOM, MAUREEN A	PROJECT_OFFIC	ACTIVE	04/16/2010		Wisconsin DNR	
VILLAGE OF SUSSEX,	GRANT_RECEIPI	ACTIVE	10/03/2009		VILLAGE OF SUSSEX	

Actions

Action	Detailed Description	Start Date	End Date	Status
Restore Hydrology, Morphology		10/03/2009	06/30/2010	PROPOSED
Restore Riparian Habitat		10/03/2009	06/30/2010	PROPOSED

Monitoring Stations

Station ID	Name	Comments
683208	Sussex Creek at Sth 164	

Assessment Units

WBIC	Segment	Local Name	Official Name
773400	1	Spring Creek	Spring Creek

Lab Account Codes

Account Code	Description	Start Date	End Date
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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
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**Wisconsin Department of Natural Resources
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Documents

Title	Description	Author	Published	Comments
ARRA 15 Village of Sussex Spring Creek Contract		WDNR	10/29/2009	
ARRA 15 Village of Sussex Spring Creek Project Description		WDNR	07/22/2009	
ARRA_15_Q2FFY10_Report		WDNR	04/28/2010	
ARRA_15_Q3FFY10_Report			07/30/2010	
Preliminary cross section 7/7/10	preliminary conceptual cross section and floodplain - plantings, etc.	BETH WENTZEL - INTERFLUVE	07/07/0010	
preliminary plans 7/7/10	Preliminary conceptual realignment locations 1 & 2	BETH WENTZEL - INTERFLUVE	07/07/2010	

Budget

Code	Description	Quantity	Units	Unit Cost	Total Cost
Test Code	Description	Test Group	# Planned	Unit Cost	Total Cost

Total SLOH Lab Costs: \$0.00