

Hurley Creek/McKinley Lake Watershed Improvement Project

Comprehensive Plan of Work

March 1, 2008 – February 28, 2011

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- Objective 3.** Reduce E. Coli levels to meet the designated use of McKinley Lake by Controlling direct animal access, reducing animal waste runoff, and Improving sanitary sewer systems.
- Objective 4.** More effectively manage the storm water flow rate, which may reduce Erosion and flooding and may improve water quality. Reduce storm-Water flow into Hurley Creek by at least 35%.
- Objective 5.** Educate the public, including civic groups, homeowners, farmers, and Business owners in the Hurley Creek Watershed about Best Management Practices and establish comprehensive education and communications Strategies to promote environmental awareness.

Objective 1. Administer the Hurley Creek/McKinley Lake Watershed Improvement Project and work with all stakeholders to ensure all project objectives are implemented as scheduled.

Goals:

A. Submit progress reports, annual project reports and final project report.

ACTIONS

1. Prepare and submit Progress Reports to the WIRB by the 15th of the month following the end of the reporting period.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Mike Taylor	07/2008	03/2011	

Remarks:

Progress Report Check-off

Quarter	Mar-Jun 08	Jul-Dec 08	Jan-June 09	Jul-Dec 09	Jan-Jun 10	Jul-Dec 10
Date Submitted						

2. Submit Annual Reports to the WIRB by January 15th following the end of the reporting period.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Mike Taylor	01/2009	03/2011	

Remarks:

Annual Report Check-off

Year	Mar-Dec 08	Jan-Dec 09	Jan-Dec 10	Jan-Feb 11
Date Submitted				

3. Submit Final Comprehensive Project Report to the WIRB by April 1, 2011.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Mike Taylor	02/2011	04/2011	

Remarks:

B. Obtain needed training for project manager and committee members.

ACTIONS

1. Attend WIRB sponsored project manager meetings and training.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Mike Taylor	03/2008	03/2011	

Remarks:

2. Receive training from DSC Regional Coordinator on the Sediment Delivery Calculator.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
P.Goldsmith	03/2008	03/2011	

Remarks:

C. Manage the Hurley Creek/McKinley Lake water quality project to maintain quality control and to maximize communication with, and involvement of, local advisors, state and local staff of participating agencies.

ACTIONS

1. Work with the Hurley Creek/McKinley Lake Committee to promote and facilitate water quality activities in the watershed.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
City of Creston	03/2008	03/2011	

Remarks:

- Objective 2.** Reduce by at least 50% the amount of annual erosion, which will help Reduce sediment load, loss of property, and may improve water quality.

Goals:

A. Promote the establishment of Riparian Buffers along the stream channel.

ACTIONS

1. Complete a mailing to property owners along Hurley Creek with information about benefits of riparian buffers along the stream channel and the available program.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	03/2008	03/2008	

Remarks:

2. Obtain native grass seed mixes that could be used for riparian buffer plantings.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	03/2008	04/2008	

Remarks:

3. Develop contractor list of potential seeding contractors who can complete seedings of riparian buffers and rain gardens.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	02/2008	03/2008	

Remarks:

4. Assist homeowners along the stream channel with installing 1,000 ft of riparian buffers in an urban setting. (Grant Agreement Item 1)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	03/2008	05/2009	

Remarks:

5. Assist landowners along the stream channel with installing 500 ft of riparian buffers in a rural setting. (Grant Agreement Item 2)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	03/2008	05/2009	

Remarks:

B. Inventory, evaluate, and install stream channel measures to stabilize eroding stream channels along the Hurley Creek Channel.

1. Identify segments of the stream channel that are unstable and prioritize these sites for repair.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
K. Kruse, City of Creston	04/2008	07/2008	

Remarks:

2. Complete Streambank Stabilization of 400 linear ft of the Hurley Creek stream bank. (Grant Agreement Item 3)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
K. Kruse, City of Creston	07/2008	08/2009	

Remarks:

3. Complete Stream Channel and Bank Stabilization at six sites along Hurley Creek (Grant Agreement Item 7)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
K. Kruse, City of Creston	07/2008	08/2009	

Remarks:

4. Place 500 sq ft of Erosion Control Matting where needed to help stabilize stream banks along Hurley Creek. (Grant Agreement Item 8)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
K. Kruse, City of Creston	07/2008	08/2009	

Remarks:

Objective 3. Reduce E. Coli levels to meet the designated use of McKinley Lake by Controlling direct animal access, reducing animal waste runoff, and Improving sanitary sewer systems.

Goals:

- A. Identify potential sites where livestock has direct access into the stream channel and install practices to remove livestock from stream channel.*

ACTIONS

1. Complete an inventory of the stream channel to identify sites with direct animal access into the stream channel.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	04/2008	05/2008	

Remarks:

2. Contact landowners with livestock that have access to the Hurley Creek channel and provide alternatives to lesson the impact of the livestock on the stream channel.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	04/2008	07/2008	

Remarks:

3. Install at least one Livestock Crossing to protect the stream channel from direct animal access. (Grant Agreement Item 4)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Union Co SWCD	07/2008	07/2009	

Remarks:

B. Inventory & evaluate effectiveness of existing Sanitary Sewer System in the Hurley Creek Watershed.

ACTIONS

1. Complete an inventory of the Sanitary Sewer System in the Hurley Creek watershed to help with identifying areas needing upgrading.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
City of Creston	05/2008	09/2009	

Remarks:

2. As funding allows, complete needed upgrades of Sanitary Sewer System in the Hurley Creek Watershed.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
City of Creston	07/2008	09/2010	

Remarks:

Objective 4. More effectively manage the storm water flow rate, which may reduce Erosion and flooding and may improve water quality. Reduce storm-Water flow into Hurley Creek by at least 35%.

Goals:

- A.** *Provide information and education opportunities for the installation of Rain Gardens for reducing stormwater runoff.*

ACTIONS

1. Submit one news release annually to local media to discuss and promote the installation of Rain Gardens.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
ISU Extension	02/2008	09/2010	

Remarks:

2. Work with local Garden Clubs to promote the installation of Rain Gardens in the watershed.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
ISU Extension	02/2008	12/2010	

Remarks:

3. Hold a public meeting for property owners in the watershed to discuss the benefits of rain gardens for runoff reduction.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
S Wasteney, Educ Comm.	02/2008	04/2008	

Remarks:

4. Man a booth at the Home & Garden Show at the YMCA with information on rain gardens.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
ISU Extension	03/2008	03/2009	

Remarks:

5. Work with local homeowners in the Hurley Creek Watershed to install 18 strategically placed Residential Rain Gardens. (Grant Agreement Item 5)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
ISU Extension	03/2008	03/2009	

Remarks:

C. Inventory & evaluate sites along Hurley Creek where runoff can be slowed and controlled with structures.

ACTIONS

1. Complete an inventory of potential sites for Storm Water Detention Ponds along the Hurley Creek Channel.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
City of Creston	05/2008	09/2009	

Remarks:

2. Complete the installation of 2 Storm Water Detention Ponds in strategic locations to reduce storm water runoff. (Grant agreement item 6)

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
City of Creston	07/2008	09/2010	

Remarks:

3. Complete an inventory and evaluation of a potential site for a wetland above McKinley Lake to provide water quality benefits and slow storm water runoff.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
USDA/NRCS	03/2008	08/2008	

Remarks:

Objective 5. Educate the public, including civic groups, homeowners, farmers, and Business owners in the Hurley Creek Watershed about Best Management Practices and establish comprehensive education and communications Strategies to promote environmental awareness.

Goals:

- A. *Develop an education program about water quality activities for property owners and stake holders in the watershed and along the Hurley Creek Channel*

ACTIONS

1. Submit two news releases per year to local media describing water quality activities in the watershed related to the WIRB grant.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
P. Goldsmith, S Wastenev	03/2008	03/2011	

Remarks:

2. Label surface storm sewer inlets in the watershed to the public recognizes where the storm sewers outlet.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
S. Wastenev, Educ Comm	02/2008	04/2008	

Remarks:

3. Sponsor a Hurley Creek clean up day in the spring 2008 and spring 2009.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Hurley Creek Comm	03/2008	06/2009	

Remarks:

4. Establish and keep current a website on the Hurley Creek/McKinley Lake Water Quality Project (www.crestoniowachamber.com).

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
Terri Hannah	02/2008	02/2011	

Remarks:

5. Facilitate a Rain Garden and Riparian Buffer Walk for people to view established Rain Garden's and Riparian Buffers along the Hurley Creek Channel.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
ISU Exten, Union Co SWCD	05/2009	08/2009	

Remarks:

6. Set up a self guided field tour of the established Rain Gardens and Riparian Buffers in the Hurley Creek Watershed.

<u>Responsible person:</u>	<u>Start Date:</u>	<u>End Date:</u>	<u>%Completion:</u>
ISU Exten, Union Co SWCD	04/2009	08/2009	

Remarks: