

Final Report

Targeted Runoff Management Grant Program and Urban Nonpoint
Source and Storm Water Management Grant Program

Form 3400-189 (R 11/05)

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Notice: This final report is authorized by ss. 281.65 and 281.66, Wis. Stats., and chs. NR 153 and NR 155, Wis. Adm. Code. Personally identifiable information collected will be used for program administration and may be made available to requesters as required under Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Instructions: The grant agreement requires grantees to submit a Final Report 60 days after the end date listed in the grant agreement. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR.

1. Grant Type

- ☐ Agricultural - Targeted Runoff Management Grant
- ☐ Urban - Targeted Runoff Management Grant
- ☒ Construction - Urban Nonpoint Source & Storm Water Management Grant
- ☐ Planning - Urban Nonpoint Source & Storm Water Management Grant

2. Grantee & Project Information

Project Name Site 1 and Site 4 Detention Basin Construction	Grant Number USC-LR 13-67136-06
Governmental Unit Name Hartland	Governmental Unit Type (city, village, town, etc.) Village
Watershed Name Bark River	Watershed Code LR13-012
DNR Water Management Unit (River System) Name Lower Rock	Water Body Identification Code (WBIC) (if applicable) 813500

s. 303(d) Waterbody? ☒ Yes ☐ No

What pollutant(s) were addressed by the project?

Total Suspended Solids

For each project site location provide the following: (attach additional sheets if necessary)

Location:		A	B	C	D	E
Minor Civil Division Name		Village of Hartland				
PLSS	Town	T7N				
	Range	R18E				
	Section	10				
	Quarter	NE				
	Quarter-Quarter	NW				
Latitude		43 Degrees 5' 20.0"N				
Longitude		88 Degrees 21' 1.3"W				
Property Owner(s)	Name	Village of Hartland				
	Mailing address	210 Cottonwood Ave, Hartland, WI 53029				
Site address (if different than mailing address)		West of Cottonwood & Lindenwood Int.				

3. Summary of Results

A. Performance Standards and Prohibitions and Other Water Resources Management Priorities

For grants issued in calendar year 2006 or later, complete Tables A and B (following) consistent with the entries on your grant application.
For grants issued prior to calendar year 2006, complete Tables A and B, to the best of your knowledge, consistent with the entries on your grant application.

Table A. Performance Standards and Prohibitions (per ch. NR 151, Wis. Adm. Code, effective October 1, 2002)

Performance Standard or Prohibition	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting T		
Manure Storage Facilities: New Construction/Alterations	Number of facilities		
	Number of animal units		
Manure Storage Facilities: Closure	Number of facilities		
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities		
	Number of animal units		
Clean Water Diversions in WQMA	Pollutant load reduction		
	Number of farms with diversions		
	Number animal units		
Nutrient Management on Agricultural Land	Acres planned		
Prohibition: Manure Storage Overflow	Number of facilities		
	Number of animal units		
Prohibition: Unconfined Manure Pile in WQMA	Number of farms		
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction		
	Number of facilities		
	Number of animal units		
Prohibition: Unlimited Livestock Access	Feet of bank protected		
	Number of farms		
Urban: 20-40% Reduction in Total Suspended Solids (TSS)	Pounds TSS reduced	11722	WINSLAMM V9.2.2
	% TSS reduction	30	After Site 4 Pond Construction

Table B. Other Water Resources Management Priorities

I. Agricultural Areas	Units of Measure	Quantity	Measurement Method Used
Buffers	Feet of bank protected		
	Number of farms		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify)			
II. Developed Urban Areas	Units of Measure	Quantity	Measurement Method Used
Urban: 20-40% Reduction in TSS	Pounds TSS reduced	11722	WINSLAMM V9.2.2
	% TSS reduction	30	After Site 4 Pond Construction
Infiltration	% Pre-development stay-on volume		
	Cubic feet stay-on volume		
Peak flow discharge	Change in cubic feet per second		
Protective areas	Feet of bank protected		
Fueling & maintenance areas	Oily sheen presence		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify)			
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project decreased storm water impacts on state waters (i.e., storm water plan, I & E plan, etc.)	Municipalities planned for	1	planning in report
	Acres planned for	2901	planning in report
Document/track progress made in implementing the planning product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Municipalities planned for	1	planning in report
	Acres planned for	2901	planning in report
Other (specify)			

B. Project Results Narrative

This project included the construction of two stormwater detention ponds to reduce the amount of Total Suspended Solids (TSS) to the 303(d) listed Bark River and to increase the Village wide TSS reduction to assist in meeting the NR151 Runoff Management goal.

The construction of the Site 4 Pond resulted in an estimated capture of up to 4 tons of sediment per year from the ponds contributing tributary area. The WinSLAMM v9.2.2 was used to evaluate the sediment loading efficiency of the Site 4 pond. With the construction of this pond, the overall TSS reduction increased from 27.5% to 30.0% for the Village. The final construction was completed under budget at \$201,592 (approved bid was \$206,000) with an original cost estimate of \$108,000. The pond size was increased resulting in greater TSS trapping.

The pond at Site 1 was not constructed under this grant cycle as a result of wetland issues. Alternatives that were explored to replace the original Site 1 Pond were not able to be finalized within the grant application period.

The construction of the Site 4 Pond resulted in the capture of approximately 4 tons of sediment per year of TSS that would have otherwise flowed into the Bark River. The removal of this sediment overtime will help to reduce the contaminants that drain into the Bark River and surrounding water resource areas.

4. Satisfaction of Notice Requirements (if applicable)

If cost sharing for this project was offered under a formal notice to achieve compliance with performance standards or prohibitions, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

5. Summary of Project Challenges

Overall the project was able to be completed with few problems or delays. The main delay encountered during the project was wetland issues on both Site 1 and Site 4 and a potential navigability issues at Site 1. The determination at Site 1 was that the drainage channel was not navigable but based on the wetland delineation, Site 1 was no longer a viable location for detention since the pond would be partially placed within the wetland boundary. Alternatives explored were to either re-design the pond at Site 1 to avoid the wetland issues or provide wet ponds or biofiltration at alternate locations. No alternatives were able to be pursued to replace the Site 1 pond within the grant application period.

6. Additional Information about the Project (optional)

7. Planning Product (UNPS&SW - Planning Projects only)

☐ Check here if a printed copy of the planning product (e.g., plans, ordinances, analyses) was sent to your DNR Regional Nonpoint Source Coordinator.

Name of Document	Date(s) effective	Date Submitted to NPS Coordinator
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8. Grantee Certification:

☒ Check here to certify that, to the best of your knowledge, the information contained in this report is correct and true.

Type or print Name and Title of Authorized Representative certifying here.

Mike Einweck, Director of Public Works

Signature of Authorized Representative

Mike Einweck

Date

12-17-08













