State of Wisconsin Department of Natural Resources dnr.wi.gov



Final Report

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

Water Body Identification Code (WBIC) (if applicable)

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 **Grant Number** Project Name Stormwater Management Planning And Utility Development USP-LR10-13181-06 Governmental Unit Type (city, village, town, etc.) Governmental Unit Name Village **Shorewood Hills** Watershed Code Watershed Name LR10-012 Six Mile and Pheasant Branch Creeks (Lake Mendota)

805400

What pollutant(s) were addressed by the project?

DNR Water Management Unit (River System) Name

X Yes

Total Suspended Solids

s. 303(d) Waterbody?

Lower Rock

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

☐ No

Location:		A	В	C	D	E
Minor Civil Division Name						
PLSS	Town	7				
	Range	9E		3-100-1		
	Section	16, 17	54.0 (50.0)			
	Quarter					
	Quarter-Quarter					
Latitude		43° 4' 46" N				
Longitude		89° 26' 37" W	(#	*		
Property Owner(s)	Name	Village of Shorewood Hills				
	Mailing address	810 Shorewood Boulevard, Madison WI, 53705			18	
Site address (if different than mailing address)					8	

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 <u>prior</u> 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	500	
	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		
2	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	0	
Prohibition: Unlimited Livestock Access	Feet of bank protected		
	Number of farms		
Urban: 20-40% Reduction in Total Suspended Solids (TSS	Pounds TSS reduced	24400	
	% TSS reduction	20	

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		
30	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	24,400	SLAMM Modeling
	% TSS reduction	20	SLAMM Modeling
Infiltration	% Pre-development stay-on volume		
	Cubic feet stay-on volume		
Peak flow discharge	Change in cubic feet per second	(4	
Protective areas	Feet of bank protected		
Fueling & maintenance areas	Oily sheen presence		
Streambank	Tons of bank erosion reduced		NRCS Bank Erosion Formula
· ·	Feet of bank protected	22	Visual assesment/field measurement
Other (specify)			
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project	Municipalities planned for	1	Count
decreased storm water impacts on state waters (i.e., storm water plan, I & E plan, etc.)	Acres planned for	507	Count
Document/track progress made in implementing the planning	Municipalities planned for	1	Count
product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Acres planned for	507	Count
Other (specify)			

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B. Project Results Narrative

The purpose of this project was to develop a plan to reduce the amount of nonpoint source pollutants, in particular total suspended solids, discharged to Lake Mendota. Since this plan calls for TSS reduction to be achieved through the construction of biofiltration devices, and multi-chambered treatment trains (MCTTs) its implementation will also reduce the amount of hydrocarbons, metals, and runoff discharged to the Lake, and increase infiltration.

Water quality modeling conducted for this project was done in WinSLAMM. Over 70 water quality BMPs were evaluated, and the implementation of the most cost-effective combination of BMPs will achieve a 20% reduction in the Village's regulated TSS load. Other deliverables/outcomes achieved through the planning proces funded by this include:

- Stormwater Utility Ordinance drafted and adopted; utility created and implemented; current utility charge rate = \$110/ERU; utility is funding implementation of water quality practices and activities recommended by the plan.
- Ordinances Illicit Discharge Ordinance drafted; Erosion Control and Stormwater Management Ordinance drafted
- Education Obtained and sent copies of My Fair Lake Brochures to homeowners, along with letter about Village stormwater issues
- Erosion Management Identified alternatives for reducing soil erosion to Lake Mendota in 3 locations of concern
- Public Involvement Facilitated four meetings with Village stormwater stakeholder group, and eight meetings with the Village's standing

	Meeting partici	pants helped identify pos	sible locations for BMP inst				
4. Satisfaction of Notice Rec	quirements (if apr	olicable)					
	t was offered und	The state of the s	ve compliance with performar	nce standards or proh	ibitions, p	orovide information	
		Notice Information		Notic	ce Satisfa	action Information	
				Satis	Satisfied?		
Notice Type	Issue Date	From (Name)	To (Name	e) Yes	No	Date Letter Sent	
33:							
			2 3 5 C. (1 1 4 5 C. (1 1 1 4 5 C. (1 1 4 5 C. (1 1 1 4 5 C. (1 1 1 4 5 C. (1 1 1 1 4 5 C. (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
5. Summary of Project Chal	lenges						
			neavy tree cover also preser easure parcel impervious an			=	
6. Additional Information ab	out the Project (o	ptional)					
The Village is applying fo	or a 2009 UNPS	Construction Grant to he	p fund contruction of water	quality BMPs recon	nmended	d by the plan.	
7. Planning Product (UNPS	&SW - Planning I	Projects only)					
Check here if a printe Coordinator.	ed copy of the pla	nning product (e.g., plans,	ordinances, analyses) was se	ent to your DNR Regio	nal Nonp	point Source	
Name of Document Village of Shorewood Hill: 8. Grantee Certification:	s Stormwater Qu	uality Master Plan	Date(s) effective January 1, 2008	Date Submitte Febru	ed to NPS ary 29,		
_/	that to the heet	of your knowledge, the info	rmation contained in this reno	art is correct and true	CONTRACTOR OF THE PARTY OF THE	The state of the s	

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

Mark Sundquist

Signature of Authorized Representative

Date

Feb 22, 2008