

State of Wisconsin Department of Natural Resources

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JUN 19 2007

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 \$2.281,65 and 281,65 and 281,65 wis. Stats Varid 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 Ty	/pe						
Agricultural - Targeted Runoff Management Grant							
Urban -	- Targeted Runoff Ma	nagement Grant					
⊠ Constr	uction - Urban Nonpo	int Source & Storm Wate	r Management Grant				
☐ Plannir	ng - Urban Nonpoint S	Source & Storm Water Ma	anagement Grant				
2. Grantee	& Project Information						
Project Na	me			Grant Number			
Zoo-Elk &	Pony Yard Renovat	ion		USC-MI03-41000-04F			
Governme	ntal Unit Name			Governmental Unit Type	e (city, village, town, etc.)	
Milwaukee	County			County			
Watershed	Name			Watershed Code			
Menomon	ee River			MI03			
DNR Wate	r Management Unit (F	River System) Name		Water Body Identification	n Code (WBIC) (if applic	cable)	
Milwaukee	River					3#	
s. 303(d) V	Vaterbody?	Yes No					
What pollu	tant(s) were addresse	ed by the project?					
sediment	(TSS), nutrients						
For each n	vroject site legation pr	ovide the following: (attac	ch additional chaots if	nocoscani)			
	Location:	A A	B B	C	D	Е	
	Division Name	Milwaukee	Line Street, Street and A. 776 St. Street, St. St.			And the second s	
PLSS	Town	7					
	Range	21					
	Section	32					
	Quarter	NW					
	Quarter-Quarter	NW			i.		
Latitude		43°1'50"N					
Longitude		88°2'36"W					
Property Owner(s)	Name	Milwaukee County					
	Mailing address	2711 W. Wells St #213 Milwaukee, WI 53208					
Site address		10001 W					

Bluemound Rd.

Milwaukee, WI

53226

(if different than mailing

address)

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		
97 BY 0007	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		
	% TSS reduction		

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		
	% TSS reduction		
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)	Erosion/TSS reduced		visual monitoring
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project	Municipalities planned for		
decreased storm water impacts on state waters (i.e., storm water plan, I & E plan, etc.)	Acres planned for		
Document/track progress made in implementing the planning	Municipalities planned for		
product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Acres planned for		
Other (specify)			

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D	Droinot	Dogulto	Narrative
D.	FIDIECE	results	Ivaliative

The Elk Exhibit was regraded (1/2 acre) to reduce the slope of the site from 15% to 10%, thereby reducing stormwater run-off velocity and soil erosion. The site was sodded to re-establish a vegetative ground cover and protect th site from soil erosion. An irrigation system was installed to ensure the establishment and maintenance of turf. Paved impervious surfacing at the low point of the exhibit was replaced with grass to enhance the removal of TSS and nutrients (from aniamal waste) before the stormwater entered the drainage structure. Adjacent animal holding areas were also regraded (with the help of a retaining wall) to reduce the slope and direct the run-off to turfed area drains.

To evaluate the success of the project the site is/will be visually monitored and inspected as was stated in the project application. Inspections to date indicate that the project is successfully reducing soil ersosion. Prior to the project, the Elk Exhibit had some bare ground patches, concrete, and steeper slopes. Turf establishment was difficult because of the elk.

Milwaukee County does not have an erosion control ordinance. Because Milwaukee County is completely incorporated, Milwaukee County follows Stromwater and Erosion Control Ordinances of the applicable municipality. This is stated in Milwaukee County's Stormwater Permit effective December 15, 2006

v							
4. Satisfaction of Notice R							
If cost sharing for this proj for each notice in the table	ect was offered unde e below.	r a formal notice to achieve	compliance with performant	ce standards or pro	hibitions,	provide information	
		Notice Information		Not	ice Satis	faction Information	
				Sat	Satisfied?		
Notice Type	Issue Date	From (Name)	To (Name)	Yes	No	Date Letter Sent	
NA					lп		
					+=	-	
HERMINES WAS ASSESSED.			-		\perp \sqcup		
5. Summary of Project Ch	allenges						
6. Additional Information a	, about the Project (opti	onal)					
7. Planning Product (UNP	S&SW - Planning Pro	piects only)					
			dinances, analyses) was sen	t to your DNR Regi	onal Non	point Source	
Name of Document			Date(s) effective	Date Submit	ed to NP	S Coordinator	
Draft Plans and Specifications			8/25/04	200 0001110	8/25/04		
Draft Plans and Specifications			1/19/05		1/19/05		
Bidding Plans and Specifications		1/25/2005		1/28/2005			
8. Grantee Certification:							

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

Greg High, P.E., Director, DTPW-A&E&ES

Signature of Authorized Representative

Date

Zoo-Elk & Pony Yard Renovation USC-MI03-41000-04F



Pre-construction-note bare ground and impervious surface at catch basin



Preconstruction



Construction-regrading



Post-construction



Post-construction



Area drain with installed turf