

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 Dunn's Marsh Drainage Project	Grant Number TUC-TRM-13251-99
Governmental Unit Name City of Madison	Governmental Unit Type (city, village, town, etc.) City
Watershed Name Yahara River & Lake Monona (Lower Rock GMU)	Watershed Code 07090001160 (LR08)
DNR Water Management Unit (River System) Name Nine Springs Creek	Water Body Identification Code (WBIC) (if applicable) 804200

s. 303(d) Waterbody? Yes No

What pollutant(s) were addressed by the project?

Total Suspended Solids, Total Phosphorus, Lead, Zinc

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

Location:		A	B	C	D	E
Minor Civil Division Name		Fitchburg	Fitchburg			
PLSS	Town	06	06			
	Range	09	09			
	Section	05	05			
	Quarter	NE	SW			
	Quarter-Quarter	SW	NW			
Latitude		43.025	43.023			
Longitude		-89.452	-89.463			
Property Owner(s)	Name	City of Fitchburg	City of Fitchburg			
	Mailing address	5520 Lacy Rd Fitchburg, WI 53711	5520 Lacy Rd Fitchburg, WI 53711			
Site address <i>(if different than mailing address)</i>		Seminole Hwy Fitchburg, WI	Seminole Hwy Fitchburg, WI			

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	7580	SLAMM 6.1
	% TSS reduction	70	SLAMM 6.1

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	7580	SLAMM 6.1
	% TSS reduction	70	SLAMM 6.1
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>i.e.</i> , storm water plan, I & E plan, <i>etc.</i>)	Municipalities planned for		
	Acres planned for		
Document/track progress made in implementing the planning product (<i>i.e.</i> , ordinance, utility district evaluation/formation, storm water management plan information & education, <i>etc.</i>)	Municipalities planned for		
	Acres planned for		
Other (specify)			

B. Project Results Narrative

Dunn's Marsh has experienced a degradation of shoreline plant community due to high water levels and poor quality of incoming surface water runoff. Under predevelopment conditions, water levels fluctuated based on annual runoff. In low-water years, mudflats were exposed to facilitate growth of emergent plants. With increasing water levels, emergent vegetation has declined until only a fringe remained. This project incorporated treating stormwater runoff to reduce Total Phosphorus and TSS and lowering the water level in the wetland. Three detention basins were constructed by Fitchburg, and the City of Madison installed a diversion pipe, modified an existing control structure, constructed two water level control structures, and dredged a portion of the outlet channel (cost for this not included within grant funds). As a result, there has been a significant regeneration of emergent plants, starting in the first growing season, including *Scirpus validus*, *Sagittaria latifolia*, *Scirpus fluviatilis*, and *Sparganium eurycarpum*.

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

Coordinating access at the various locations of the project with Fitchburg, Railroad, and adjacent property owners.
 Adjusting outlet structure and channel dredging elevations due to inaccurate survey data submitted early in the project.

6. Additional Information about the Project (optional)

The emergent plant growth has been maintained for the past 5 years. However, for this success to continue, periodic maintenance dredging of the outlet channel needs to occur. In 2004, the City of Madison applied and obtained a 10-year maintenance permit to perform the dredging as needed.

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. Genesis Bichanich, Water Resource Specialist I	Date 11/17/05
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