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Jim Parson - CFA/S

MAY - 4 2007

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

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2. Grantee & Project Information

Project Name <b>Kolar Regional Detention Basin</b>	Grant Number <b>USC-BT04-22246-02</b>
Governmental Unit Name <b>Lancaster</b>	Governmental Unit Type (city, village, town, etc.) <b>City</b>
Watershed Name <b>Middle Grant River</b>	Watershed Code <b>GP - 05</b>
DNR Water Management Unit (River System) Name <b>Grant - Platte - Sugar - Pecatonica</b>	Water Body Identification Code (WBIC) (if applicable)

s. 303(d) Waterbody?  Yes  No

What pollutant(s) were addressed by the project?

**TSS removal and reduction of downstream stream streambank erosion.**

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

Location:		A	B	C	D	E
Minor Civil Division Name		<b>City of Lancaster</b>				
PLSS	Town	<b>04N</b>				
	Range	<b>03W</b>				
	Section	<b>03</b>				
	Quarter	<b>SE</b>				
	Quarter-Quarter	<b>NE</b>				
Latitude		<b>42 deg, 51' 15"N</b>				
Longitude		<b>90 deg, 42' 18.2"W</b>				
Property Owner(s)	Name	<b>City of Lancaster</b>				
	Mailing address	<b>206 S. Madison St. Lancaster, WI 53813</b>				
Site address (if different than mailing address)		<b>Site located immediately west of Lancaster H.S. 806 E. Elm St.</b>				

**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		
	% 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	<b>12,343</b>	<b>WinSLAMM</b>
	% TSS reduction	<b>38</b>	<b>WinSLAMM</b>
Infiltration	% Pre-development stay-on volume		
	Cubic feet stay-on volume		
Peak flow discharge	Change in cubic feet per second	<b>20</b>	<b>TR-20 Model</b>
Protective areas	Feet of bank protected		
Fueling & maintenance areas	Oily sheen presence		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify) <b>Wet Detention Basin</b>	<b>Acre-Feet of detention in Pond</b>	<b>17</b>	<b>Count</b>
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**

•**Project Evaluation Strategy** – The grant application indicated that during the design phase, that the Kolar Regional Detention Basin would be modeled for pre- and post-construction conditions using an appropriate water quality model. We used WinSLAMM to do this modeling.

-According to the WinSLAMM model, the Kolar Basin provides a 37.6% reduction in Total Suspended Solids (TSS) which equates to 12,343 pounds of TSS being trapped by the Basin per year.

•**Monitoring – Visual Monitoring** was identified in the grant as being required. City staff have monitored the downstream creek channel and no further evidence of streambank erosion is evident.

•**Environmental Benefits** – Pollutant removal benefits as defined above and other associated benefits related to a typical wet detention pond. Peak discharge reduction also lessens the erosive impacts to the receiving creek channel.

•**Information and Education Activities** – This project was discussed at a number of City Council Meetings.

•**Implementation and Enforcement** – The City has existing erosion control and stormwater ordinances that were enforced on this project.

**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**

**Primary challenges of the project involved submitting and gaining approval of our NR 103 Practical Alternatives Analysis with respect to wetland impacts. Also, obtaining regulatory agency approval from WDNR staff for dam safety considerations of the detention basin.**

**6. Additional Information about the Project (optional)**

**Pre-project and post project photos are attached for review.**

**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.

Date

Scot Simpson, City Administrator

5/01/07

X 

**Kolar Regional Detention Basin  
City of Lancaster, Wisconsin  
Photographs**



**Post Project - Looking Northeast**



**Post Project - Looking North**

**Kolar Regional Detention Basin  
City of Lancaster, Wisconsin  
Photographs**



**Post Project - Looking South**



**Post Project – Outlet Control Structure**

**Kolar Regional Detention Basin  
City of Lancaster, Wisconsin  
Photographs**



**Pre Project (11/2001) – Looking South**



**Pre Project (11/2001) – Looking Southeast**

**Kolar Regional Detention Basin  
City of Lancaster, Wisconsin  
Photographs**



**Pre Project (11/2001) – Looking North**



**Pre Project (11/2001) – Looking South**