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

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 Grant Number TRC-BT07-06000-04E **LBR Conservation Project** Governmental Unit Name Governmental Unit Type (city, village, town, etc.) **Buffalo County** County Watershed Code Watershed Name BT07-250 Lower Buffalo River Water Body Identification Code (WBIC) (if applicable) DNR Water Management Unit (River System) Name **Buffalo River** n/a ⊠ No s. 303(d) Waterbody? Yes What pollutant(s) were addressed by the project? unspecified nonpoint sources of pollution

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

	Location:	A	В	C	D	E
Minor Civil Division Name		Canton - Site #1	Canton - Site #2	Canton - Site #3	Mondovi - Site #4	Mondovi - Site #5
PLSS Town		24 N	24 N	24 N 24 N		24 N
	Range	12W	12W	12 W	11 W	11 W
	Section	36	36	36	18	32
Quarter		sw	SE	sw	sw	NW SW
	Quarter-Quarter	NW	SE	NW & SW	sw	NW & SE NE
Latitude		44-31'-4.5" N	44-31'.5" N	44-30'-40.0" N	44-33'-11.8" N	44-31'-20.1" N
Longitude		91-47'-27.1" W	91-47'-22.6" W	91-46-24.8W	91-46'-7.0" W	91-44'-44.3" W
Property Owner(s)			Stuart Hagen	Stuart Hagen	Mark Denk	John Rud
oo.(o)	Mailing address	S751 German Valley Road, Mondovi, WI 54755	S751 German Valley Road, Mondovi, WI 54755	S751 German Valley Road, Mondovi, WI 54755	S298 Steele Valley Road, Mondovi, WI 54755	W938 County Road B, Mondovi, WI 54755
Site address		same	same	same	same	same
(if different than mailing address)						

Location		Site #6	Site #7	Site #8	Site #9	Site #10
Minor Civil Division Name		Modena	Modena	Modena	Modena	Gilmanton
	Town	23 N	23 N	23 N	23 N	23 N
PLSS	Range	12 W	12 W	12 W	12 W	11 W
	Section	15	1	1	25	5
	Quarter	NE	NW of SE and SW of SW	SE	SW	SW
	Quarter - Quarter	SE	see above	SE	NW	SE
Latitude		44o - 28' 31" N	44o - 29' 43" N		44o - 26' 31" N	44o - 29' 47.6" N
Longitude		91o - 48' 45" W	91o - 46' 45" W		91o -47' 24" W	91o - 44' 27.4" W
Name		Shirley Evans	Modena Farms	Modena Farms	Lee Gehrke	Jim Marsolek
Property Owner(s)	Mailing Address	S841 County Road J, Nelson, WI 54756		N303 Highway 54, Pittsville, WI 54467	S108 Rockwell Road. Alma, WI 54610	471 W. Riverside, Mondovi, WI 54755
Site address (if different than mailing address)		same	acreage only, no address	acreage only, no address	same	acreage, no address

Location		Site #11	Site #12	Site #13	Site #14	Site #15	
Minor Civil Division Name		Gilmanton	Gilmanton	Gilmanton	Gilmanton	Dover	
Town		23 N	23 N	23 N	23 N	23 N	
PLSS	Range	11 W	11 W 18 NW	11 W	11 W	10 W 15 SE	
	Section	4		20	29		
	Quarter	. NE		SE	NW		
	Quarter - Quarter	SW	SW	SE	NW	NE	
Latitude		44o - 30' 16.1 " N	44o - 28' 23" N	44o -27' 7.8" N	44o - 27' .7" N	44o - 28¹ 12" N	
Longitude		91o - 43' 9.5" W	910 - 46' 10" W	91o - 43' 58.5" W	91o - 45' 58.9" W	91o - 34' 28" W	
	Name	Steve Stamm	Gene Fedie	Steiner Bros. LLC	Fred Davie	Loren Julson	
Property Owner(s)	Mailing Address	S39 Deer Run Road, Mondovi, WI 54755	•	W1010 County Road NN, Mondovi, WI 54755	8 Paget Road, Madison, WI 53703	214 N. Harrison Street, Mondovi, WI 54755	
Site address (if different than mailing address)		unknown	same	same	acreage only, no address	S879 Julson Road, Mondovi, WI 54755	

	Location	Site #16	Site #17		
Minor Civil Division Name		Dover	Naples		
	Town	23 N	24 N		
PLSS	Range	10 W	10 W		·
	Section	34	33		
	Quarter	SE	SW		
	Quarter - Quarter	SE	SE		•
Latitude		44o - 25' 25.4" N	44o - 30' 41.5" N	_	
Longitude		91o - 34' 13.6" W	91o - 36' 1.4" W		
	Name	David Fredrickson	John Hovey		
Property		S1194 Cooke Valley	S590 Hovey Valley		
Owner(s)	Mailing Address	Road,	Road, Mondovi, WI		
		Independence, WI	54755		
Site address (if different than mailing address)		same	same		

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	10	RUSLE 2
Manure Storage Facilities: New Construction/Alterations	Number of facilities	2	count
•	Number of animal units	253	AU Calculation Worksheet
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	47	BARNY
	Number of facilities	2	Count
	Number of animal units	136	AU Calculation Worksheet
Prohibition: Unlimited Livestock Access	Feet of bank protected	61	(in rods) count
	Number of farms	1	count
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	240	LF - count
Other (specify) (Peak Flow Discharge)	change in cubic feet per second {CFS (reduction)}	136	Wisconsin Engineering
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-ол 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	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)			

	Final Repor	't Targeted Runoff Management) (R 11/05)	and Urban Nonpoint So	urce & Storm V	Water Ma	nageme	ent Grant Programs Page 4
B. Project Results Narrative							
This project was very su- erosion, phosphorus disc purpose of the grant was a variety of conservation installed will continue to i	ccessful. We on the comment of the c	completed a variety of conserved to and eliminated winter spets the share funds to 10 landowners at the construction of practic quality in the Buffalo River.	ading on two sites by s to resolve nonpoint s es such as these and p	installing mar ources of pol proper mainte	nure stor lution th nance of	age fac rough t the cu	ilities. The he construction of rrent practices
154.04(14)}, 244 LF of stre	ambank and s 04(3)}, 100 LF	horeline protection {NR 154.04 of field diversion {NR 154.04(1	(31)}, 2 barnyard runof	f control syst	ems {NF	154.04	(%)}, 2 manure
4. Satisfaction of Notice Re-	quirements (if a	pplicable)			9		
		inder a formal notice to achieve o	ompliance with perform	ance standards	s or prohi	bitions,	provide information
for each notice in the table I	oeiow.	Notice Information			Notic	e Satisf	action Information
					Satis		
Notice Type	Issue Date	From (Name)	To (Nan	ne)	Yes	No	Date Letter Sent

5. Summary of Project Chal	I amaia a			30 (30 D D S			
When landowners wish to construction plan, overse	o construct a	control system are included or manure storage facility in Buffa I and provide documentation the osely with the private engineer	alo County, they need that the facility was des	igned to meet	te engin t the star	eer to c idards (omplete the of the Field Office
6. Additional Information ab	out the Project	(optional)			-		
continue to improve water provided in this grant, to funds was provided by the protection practice was a improve trout habitat while construction and installate barnyard runoff control sy	r quality in the provide as mude US Fish & W streambank riereducing stream of the lunkystem upgrade	we were able to construct a va Buffalo River. We were creation cost share funds to each lare ildlife Service. These funds we prap practice (site #6), which it eambank erosion. We used the ers and part of the wetland rese, with cost share funding from a constructed in response to a	we in seeking sources andowner up to the max bre targeted to fish & ware targeted to fish & ware targeted to fish & ware to said the installation of the ware to said the full to said the ware the ware to said the ware to said the ware to said the ware the ware the ware to said the ware the	of cost share imum allowed ildlife enhand of lunkers (sinds to help commune stora	funding d. Anoth cement. see page over som age facil	in additer sour Part of 7 of thise of the ity also	ion to the funds ce of cost share our streambank s report) to cost of included a
7. Planning Product (UNPS		g Projects only) lanning product (e.g., plans, ordi	nances analyses) was s	sent to your DN	JR Regio	nal Non	point Source
Coordinator.	446) or 1110 b			T			
Name of Document			Date(s) effective	Date	ommue	u to NP	S Coordinator
8. Grantee Certification:			an gera basik da lang da kebasi T	The state of the			

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

Julie Lindstrom, County Conservationist

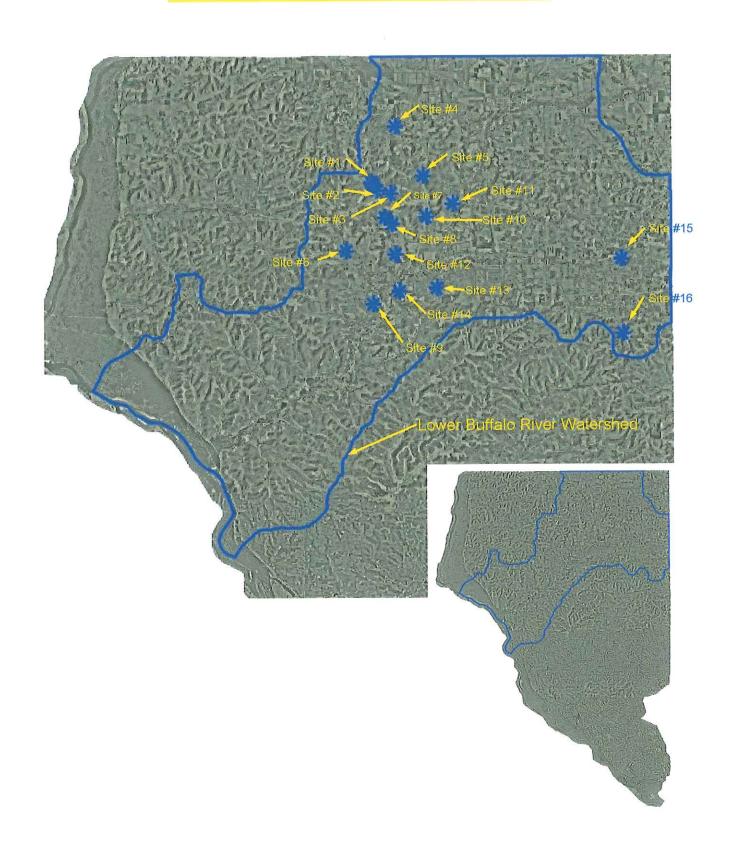
Signature of Authorized Representative

Date
3-17-2008

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

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LBR Conservation Project Site Map



These photos are taken from Site #17.











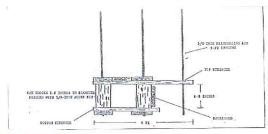


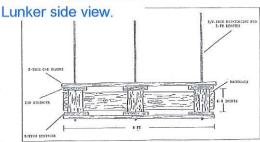
These photos are taken from Site #6.

Lunkers—is an acronym for "Little Underwater Neighborhood Keepers Encompassing Rheotactic Salmoinds". The new unit design and the exceptional water quality of the receiving streams called for a unique name that would reflect trout response. A trip through Webster's Dictionary and an active imagination resulted in the LUNKERS name.

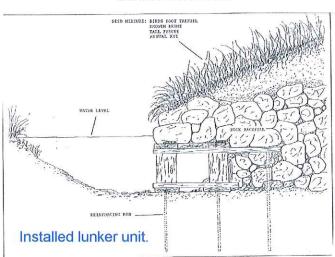
Many changes have occurred in the trout habitat improvement program in the Wisconsin DNR LaCrosse Area since 1982. A new structure design, the LUNKERS unit, when combined with increased rock riprapping for bank stabilization and more extensive landscaping, has reduced the cost of the habitat improvement program by over 30%. In addition to the longevity of improvements is increased with these structures, while maintenance needs are reduced.

Construction is completed using oak planks, oak blocks, and reinforcing rods. Oak blocks, made from short sections of tree trunks, are used as spacers. Oak planks are nailed to the tops and bottoms of the blocks, forming stringers which tie into the stream bank at right angles. Oak planks are then nailed to the top and bottom of the stringer boards. These boards parallel the stream bank. The whole structure forms a crib, which can be constructed on shore and moved by a crawler-loader to the installation site in the stream. The structure is anchored by driving lengths of reinforcing rod through predrilled holes in the structures and then into the streambed.





Lunker front view.



The above information is taken from "Administrative Report No. 27", Bureau of Fisheries Management Department of Natural Resource, Madison, Wisconsin, August 1988





Lunkers in place at Site #6, prior to seeding.