

Oct 10 2003

## ABSTRACT

**PROJECT TITLE: Restoring Minnesota's Fish & Wildlife Habitat Corridors  
(Lakescaping for Wildlife and Water Quality-Phase I(2j))  
Area 2. Mississippi Headwaters; Area 3. Border Prairie; Area 4. Central Lakes;  
Area 7. Alexandria Moraine; Area 8. Big Woods North and 10. Southern Lakes**

**Project Manager:** Carrol Henderson

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**Total budget: \$325,000**

This project provided continued guidance, cooperation, and leadership with lakeshore homeowners, natural resource land managers, landscapers, and the nursery industry to promote and restore native plant buffer zones on lakeshore property for the benefit of wildlife, fisheries, and water quality.

Twelve lakescaping demonstration sites were planned and installed in five project corridors, including Leech Lake, Little Jay Gould Lake, and Stump Lake in the Mississippi Headwaters (Corridor # 2), Stalker Lake, Clitherall lake, Elk lake, and Big Detroit Lake in the Border Prairie (Corridor # 3), Hardy Lake and Roosevelt Lake in the Central Lakes ( Corridor # 4), Sauk Lake and Barsness Park Creek in the Alexandria Moraine (Corridor # 7), and Reeds Lake in the Southern Lakes (Corridor # 10).

Twelve training and professional development workshops were given for DNR employees and other professionals to teach the contents and applications for the CD-ROM called Restore Your Shore. Workshops were held in Bemidji, Detroit Lakes, Grand Rapids, Brainerd, Willmar, and Clearwater to 162 participants. Two additional workshops were carried out in the Twin Cities (outside of the project corridor area) for 20 additional participants at the expense of the Nongame Wildlife Program.

Four roundtable meetings were held with the Univ. of Minnesota Extension Service and representatives of nursery and landscaping businesses to define the goals and desired content of the workshops for the nursery and landscaping industries. Five workshops were subsequently carried out for nursery owners, landscapers, and industry professionals to promote the lakescaping buffer zone concept using native plants and the business opportunities associated with this concept. Workshops were held at St. Cloud, Detroit Lakes, Alexandria, Brainerd, and Willmar for 170 participants.

DEC 10 2003

**Work Program Amendment and Update. Final report for Phase I, Wildlife Corridors Project  
Lakescaping for Wildlife and Water Quality**

**Date of Report:** December 9, 2003  
**Date of Work Program Approval:** July 25, 2001  
**Project Completion Date:** June 30, 2004

**FINAL REPORT**

**LCMR Work Program 2001**

- I. **PROJECT TITLE: Restoring Minnesota's Fish & Wildlife Habitat Corridors (Lakescaping for Wildlife and Water Quality-Phase I(2))**  
**Area 2. Mississippi Headwaters; Area 3. Border Prairie; Area 4. Central Lakes; Area 7. Alexandria Moraine; Area 8. Big Woods North and 10. Southern Lakes**

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**Total Biennial Project Budget: \$325,000**

Fund	Year	Approp.	Spent	Balance	Roll Forward
Restoring MN F & W Corridors (ETF)	2001	\$325,000			
FY 2002		\$163,000	\$ 145,403	0	\$17,597
FY 2003		\$162,000	\$ 159,514	0	\$20,083
FY 2004			\$ 20,083	0	
<b>Grand Total</b>		<b>\$325,000</b>	<b>\$ 325,000</b>	<b>0</b>	<b>0</b>

**Appropriation Language: Legal Citation: ML 2001, First Special Session, Chapt. 2, Sect. 14, Subd. 4e**

f (e) Restoring Minnesota's Fish and Wildlife Habitat Corridors  
 \$5,873,000 the first year and \$5,872,000 the second year are from the trust fund to the commissioner of natural resources for acceleration of agency programs and cooperative agreements with Minnesota Waterfowl Association, Minnesota Deer Hunters Association, Ducks Unlimited, Inc., National Wild Turkey Federation, Pheasants Forever, The Nature Conservancy, Minnesota Land Trust, Trust for Public Land, U.S. Fish and Wildlife Service, Bureau of Indian Affairs, Natural Resources Conservation Service, and the U.S. Forest Service to restore and acquire fragmented landscape corridors that connect areas of

quality habitat to sustain fish, wildlife, and plants. \$352,000 is for program coordination, corridor identification, and mapping. \$3,343,000 is for restoration and management activities in wildlife management areas, wetland habitat, lakes, wild rice beds, grasslands, and fisheries habitat. \$2,650,000 is for conservation easement programs on riparian areas, big woods forests, native prairies, and wetlands. \$5,400,000 is for habitat acquisition activities on prairies, riparian areas, and other fish and wildlife habitat corridors. As part of the required work program, criteria and priorities for planned acquisition and restoration activities must be submitted to the legislative commission on Minnesota resources for review and approval. Land acquired with this appropriation must be sufficiently improved to meet at least minimum management standards as determined by the commissioner of natural resources. Any land acquired in fee title by the commissioner of natural resources with money from this appropriation must be designated: (1) as an outdoor recreation unit under Minnesota Statutes, section 86A.07; or (2) as provided in Minnesota Statutes, sections 89.018, subdivision 2, paragraph (a); 97A.101; 97A.125; 97C.001; and 97C.011. The commissioner may so designate any lands acquired in less than fee title. This appropriation is available until June 30, 2004, at which time the project must be completed and final products delivered, unless an earlier date is specified in the work program.

## **II. PROJECT SUMMARY AND RESULTS:**

This project will provide continued guidance and increased cooperation with homeowners, landscapers, lake associations and the nursery industry to promote and restore native plant buffer zones on lakeshore property. This project involved planning and carrying out a total of 14 Restore Your Shore CD-Rom workshops, four roundtable meetings, five lakescaping workshops for the nursery and landscaping industry, and development of twelve lakescaping demonstration areas totaling 6 acres of shoreline buffer zone. Projects under this segment were in the following corridors: 2. Mississippi Headwaters, 3. Border Prairie, 4. Central Lakes, 7. Alexandria Moraine 8. Big Woods North and 10. Southern Lakes.

### **FINAL PROGRESS SUMMARY OF ACCOMPLISHMENTS:**

The lakescaping component of Phase I of the Wildlife Corridors project is successfully completed. A total of eight lakescaping demonstration sites were proposed originally, and twelve were successfully planned and installed in five different project corridors. This included demonstration sites on Leech Lake, Little Jay Gould Lake, and Stump Lake in the Mississippi Headwaters (Corridor # 2), Stalker Lake, Clitherall lake, Elk lake, and Big Detroit Lake in the Border Prairie (Corridor # 3), Hardy Lake and Roosevelt Lake in the Central Lakes ( Corridor # 4), Sauk Lake and Barsness Park Creek in the Alexandria Moraine (Corridor # 7), and Reeds Lake in the Southern Lakes (Corridor # 10).

Six training and professional development workshops were proposed for DNR employees and other professionals to teach the contents and applications for the newly produced CD-ROM called Restore Your Shore. Because of high demand for this information, a total of 12 workshops were presented in Bemidji, Detroit Lakes, Grand Rapids, Brainerd, Willmar, and Clearwater to a total of 162 participants. Two additional CD-ROM workshops were

carried out in the Twin Cities (outside of the project corridor area) for 20 additional Natural Resource professionals at the expense of the Nongame Wildlife Program because of additional demands for this new information.

Four roundtable meetings were proposed and subsequently held with representatives of the University of Minnesota Extension Service, representatives of the nursery industry and landscaping businesses to define the goals and desired content of the proposed workshops for members of the nursery industry and landscaping companies.

Six workshops were proposed for nursery owners, landscapers, and industry professionals to promote the lakescaping buffer zone concept using native plants. One workshop was cancelled due to an inadequate number of registrants (Grand Rapids), but five successful workshops were carried out at St. Cloud, Detroit Lakes, Alexandria, Brainerd, and Willmar. A total of 170 persons participated in the workshops. The objective was to 1. Explain a new opportunity area for marketing (propagation and sale of local origin native plants) and services (design and installation of buffer zones, 2. Provide participants with an ecological view of natural lakeshore settings and why they are important to them and their profits, 3. Explain the latest techniques and practices for lakescaping, and 4. Provide marketing and merchandising ideas to increase business.

#### IV. OUTLINE OF FINAL PROJECT RESULTS:

**Result 1. Project Corridor # 2.(Mississippi Headwaters):Estimated budget: \$69,190. Spent: \$74,052.**

Lakescaping demonstration sites were selected, planned and installed at Leech Lake in Cass County, Little Jay Gould Lake in Itasca County, and Stump lake in Beltrami County.

Four CD-ROM workshops were held for DNR employees and other natural resource professionals to teach the contents and applications of this tool as an aid in promoting the lakescaping concept. These workshops were held at Grand Rapids and Bemidji and were presented to a total of 60 participants. One roundtable meeting was held with the Univ. of MN Extension Service, members of the nursery industry, and landscaping company representatives to plan the content and design of the subsequent workshops for nursery and landscaping professionals. The lakescaping workshop scheduled for Grand Rapids was cancelled due to a lack of registrants, and interested citizens were referred to other sites for subsequent workshops.

		<u>Estimated</u>	<u>Spent</u>
Budget:	Personnel*:	69,000	52,524
	Equipment/materials:	12,000	4,324

Supplies:	:	2,000	11,604
Other:		13,000	5,600
Total		96,800	74,052
Other funds spent:		\$9,133	11,080

**Result 2. Project Corridor # 3. (Border Prairie): Estimated budget: \$96,000. Spent: \$98,487.**

Four lakescaping demonstration sites were selected, planned and installed: Clitherall Lake and Stalker Lake in Ottertail County, Elk Lake in Grant County, and Big Detroit Lake in Becker County. Two CD-ROM workshops were held for DNR employees and other natural resource professionals to teach the contents and applications of this tool as an aid in promoting the lakescaping concept. These workshops were held at Detroit Lakes and were presented to a total of 20 participants. One roundtable meeting was held with the Univ. of MN Extension Service, members of the nursery industry, and landscaping company representatives to plan the content and design of the subsequent workshops for nursery and landscaping professionals. Two lakescaping workshops were held for nursery and landscaping professionals at Detroit Lakes and Alexandria.

	<u>Estimated</u>	<u>Spent</u>
Personnel*	\$55,500	63,205
Equipment/materials:	6,000	6,785
Supplies:	1,000	18,212
Other:	13,900	10,285
Total	\$ 76,400	98,487
Other funds spent:	\$ 7,466	18,765

**Result 3. Project Corridor # 4. (Central Lakes): Estimated budget: \$63,400. Spent: \$60,340.**

Two lakescaping demonstration sites were selected, planned, and installed, including Roosevelt Lake in Cass County and Hardy Lake in Cass County. Two CD-ROM workshops were held for DNR employees and other natural resource professionals to teach the contents and applications of this tool as an aid in promoting the lakescaping concept. These workshops were held at Brainerd and were presented to a total of 20 participants. One roundtable meeting was held with the Univ. of MN Extension Service, members of the nursery industry, and landscaping company representatives to plan the content and design of the subsequent workshop for nursery and landscaping professionals. One lakescaping workshop was held for nursery and landscaping professionals at Brainerd.

		<u>Estimated</u>	<u>Spent</u>
\$	Budget:		
	Personnel*	45,500	37,747
	Equipment/materials:	6,000	4,013
	Supplies:	1,000	10,772
	Other:	10,900	7,808
	Total	\$ 63,400	60,340
	Other funds spent:	\$ 7,133	8,495

**Result 4. Project Corridor # 7 (Alexandria Moraine): Estimated budget: \$ 64,410. Spent: 58,287.**

Two lakescaping demonstration sites were selected, planned and installed, at Barsness Park in Glenwood and Sauk Lake in Stearns County. Two CD-ROM workshops were held for DNR employees and other natural resource professionals to teach the contents and applications of this tool as an aid in promoting the lakescaping concept. These workshops were held at Willmar and were presented to a total of 20 participants. One roundtable meeting was held with the Univ. of MN Extension Service, members of the nursery industry, and landscaping company representatives to plan the content and design of the subsequent workshop for nursery and landscaping professionals. One lakescaping workshop was held for nursery and landscaping professionals at Willmar.

		<u>Estimated</u>	<u>Spent</u>
\$	Budget:		
	Personnel*	45,500	37,747
	Equipment/materials:	6,000	3,538
	Supplies:	1,000	9,494
	Other:	10,900	7,508
	Total:	\$ 63,400	58,287
	Other funds spent:	\$ 7,133	8,495

**Result 5. Project Corridor # 8 (Big Woods North): Estimated budget: \$ 25,000 Spent: \$14,757.**

Two CD-ROM workshops were held for DNR employees and other natural resource professionals to teach the contents and applications of this tool as an aid in promoting the lakescaping concept. These workshops were held at St. Cloud and were presented to a total of 20 participants. One lakescaping workshop was held for nursery and landscaping professionals at St. Cloud.

		<u>Estimated</u>	<u>Spent</u>
Budget	Personnel*:	\$19,000	12,289
	Other:	6,000	2,468
	Supplies:	-0-	
	Total:	\$25,000	14,757
	Other funds spent:	\$ 5,135	0

**Result 6. Project Corridor # 10. (Southern Lakes) Estimated budget: \$7,000. Spent: \$ 19,077.**

A lakescaping demonstration site was selected, planned, and installed at Reeds Lake in Waseca County.

		<u>Estimated</u>	<u>Spent</u>
\$ Budget	Personnel*:	\$19,000	10,745
	Other:	6,000	437
	Supplies:	-0-	7,895
	Total:	\$ 7,000	19,077
	Other funds spent:	\$ 5,135	4,996

V. Total Project Request Budget

**Budget status as of November 14, 2003: Allocation for FY 02-03: \$325,000. Expended: \$325,000. Balance: \$0.**

	Biennial Budget Estimate	Spent
All Results: Personnel*:	\$ 235,000	<b>\$214,258</b>
All Results: Equipment/supplies:	30,000	<b>\$ 76,636*</b>
All Results: Development:		
All Results: Acquisition:	0	
All Results: Other:	\$ 60,000	<b>\$ 34,106*</b>

\* I request a program amendment that \$46,636 be shifted from "other" to "supplies and equipment" for a total of \$76,636 in that budget category. Of this amount, \$35,826 was due to the cost coding system in the DNR which lumped various expenses initially budgeted as "other" were actually coded to "supplies and equipment." An additional \$10,810 was necessary in this category to cover use of additional plant materials and bioengineering supplies for installation of additional demonstration site materials, including additional materials

for installation of the new site at Reed's Lake in Waseca County. In order to accommodate this change, a total of \$20,742 was shifted from "Personnel" category savings and \$25,894 in savings in the "Other" category. This still resulted in a balanced budget with accomplishment of four more demonstration sites than were originally proposed. Further budget details on these items are portrayed in Attachment D.

\*"Other" items coded by DNR as supplies and equipment (see attachment D) \$34,106

(Other, as originally budgeted)

Printing:	\$ 8,000	\$ 6,858
Communications:	5,000	582
Contracts/ workshops:	22,500	19,100
In-state travel:	12,000	4,350
Space rental/ facilities:	6,000	2,024
Misc./meals/photography/etc.	6,500	1,192
<b>Grand Total</b>	<b>\$325,000</b>	<b>\$ 325,000</b>

**Balance: 0**

**Total other funds proposed: \$41,133. Total other funds spent: \$ 50,117**

\*(Includes one unclassified rule 10 NR fisheries specialist, one part-time (70%) unclassified planner intermediate and two seasonal technicians who will work in the various project regions. The fisheries specialist worked out of the DNR Glenwood office and the planner intermediate worked out of the St. Paul office.

## VI. PAST, PRESENT AND FUTURE FUNDING

Additional matching funds were provided by private homeowners on a 3.5:1.5 matching basis for installing lakescaping demonstration sites (12 sites at \$1000 per site), \$11,289 was provided through the Nongame Wildlife Program for purchase of supplies and plant materials, and an additional \$26,828 was provided in staff time from the Nongame Wildlife Program for project management and coordination. Staff for planning, administering and supervising the project were provided by the Ecosystem Education and Nongame Wildlife Programs in the Division of Ecological Services and the Aquatic Plant Restoration Program in the Division of Fisheries.

A. Past funding: A total of \$140,000 was provided by the LCMR for the biennium of 1999 - 2000 to conduct 14 lakescaping workshops for the general public and create lakescaping 14 habitat demonstration sites.

B. Funding from private sources was 1/2 cash and 1/2 in-kind.



C. **Project Partners:** Project partners included the Division of Ecological Services working in cooperation with the DNR Division of Fisheries. Additional participation included the Minnesota Nurseryman's Association and Ramsey County Corrections and the cities of Glenwood and Outing.

**VII. DISSEMINATION:** Dissemination of project accomplishments will be through the LCMR reporting process and normal DNR budgeting and accomplishment reporting. Accomplishments at demonstration sites will be documented by photography and included in lakescaping information on the DNR web site.

**VIII. LOCATION:** Demonstration sites were developed in the Mississippi Headwaters (3), Border Prairie (4), Central Lakes (2), Alexandria Moraine (2) and Southern Lakes (1). Lakescaping workshops for nursery and landscaping professionals were carried out in the Border Prairie (2), Central Lakes (1), Alexandria Moraine (1), and Big Woods North (1). Roundtable meetings for lakescaping/landscaping professionals were held in the Mississippi Headwaters (1), Border Prairie (1), Central Lakes (1), and Alexandria Moraine (1). Workshops for natural resource professionals featuring the new DNR CD-Rom on Lakescaping were held in the Mississippi Headwaters (4), Border Prairie (2), Central Lakes (2), Alexandria Moraine (2), and Big Woods North (2) and two additional CD-Rom workshops were presented in St. Paul for natural resource staff (outside of the project corridor) at the expense of the Nongame Wildlife Program.

**IX. REPORTING REQUIREMENTS:** This is the final work program for this portion of the Phase I Wildlife Corridors project.

**X. RESEARCH PROJECTS:** Not applicable.

Attachment A, Lakescaping, 02-03	AMOUNT SPENT							
2003 LCMR Proposal Budget	Result 1	Result 2	Result 3	Result 4	Result 5	Result 6	TOTAL	
BUDGET ITEM	Corridor 2	Corridor 3	Corridor 4	Corridor 7	Corridor 8	Corridor 10		
<b>PERSONNEL:</b>								
Leilani Peterson/Lindy Ekola	23,392	37,965	14,861	14,114	12,289	10,745	113,366	
Bruce Lenning	8650	4758	0	0	0	0	13,408	
Kevin Woizewchke	0	0	9,500	7247	0	0	16,747	
Michelle Bratager	20,482	20,482	13,387	16,386	0	0	70,737	
<b>Subtotal, all personnel</b>	<b>52,524</b>	<b>63,205</b>	<b>37,748</b>	<b>37,747</b>	<b>12,289</b>	<b>10,745</b>	<b>214,258</b>	
<b>EQUIPMENT AND SUPPLIES</b>								
Equipment-computer	500	500	500	500	0	418	2,418	
Fleet costs	3454	4138	3,360	2,668	0	741	14,361	
Photography documentation of demo sites	150	200	200	200	0	151	901	
Printing demo site signs	1870	1870	870	870	0	274	5,754	
Other Supplies: Plant materials for lakeshore plantings	4266	8866	4310	4317	0	4901	26,660	
Bioengineering materials for lakeshore plantings	3103	3143	2837	1665	0	984	11,732	
Supplies: Laptop rental for CD ROM workshops	2585	2589	1290	1290	0	0	7,754	
Supplies: Develop & copy photos for use at workshops	0	1522	769	573	0	0	2,864	
Supplies, meals at workshops	0	1489	500	500	0	0	2,489	
Workshop speaker fees	0	680	574	449	0	0	1,703	
<b>Subtotal, equipment &amp; supplies</b>	<b>15,928</b>	<b>24,997</b>	<b>15,210</b>	<b>13,032</b>	<b>0</b>	<b>7,469</b>	<b>76,636</b>	
<b>OTHER EXPENSES</b>								
Printing costs	1343	1490	1385	1390	1250	0	6,858	
Communications, telephone,	118	116	286	42	20	0	582	
Contracts for workshops/workshop planning; with Univ. of MN Extension Service	3183	6674	4183	4660	400	0	19,100	
In-state travel	636	1165	1065	925	122	437	4,350	
Workshop accommodations	320	610	509	435	150	0	2,024	
Miscellaneous expenditures	0	230	380	56	526	0	1,192	
<b>Subtotal, Other Expenses</b>	<b>5,600</b>	<b>10,285</b>	<b>7,808</b>	<b>7,508</b>	<b>2,468</b>	<b>437</b>	<b>34,106</b>	
<b>COLUMN TOTAL</b>	<b>74,052</b>	<b>98,487</b>	<b>60,766</b>	<b>58,287</b>	<b>14,757</b>	<b>18,651</b>	<b>325,000</b>	

**Attachment B -- Habitat Corridors Partnership PHASE I -- Individual Work Program Summary  
November 2003 Progress Report (For all completed activities thru 10/31/03)**

Activity (Eg; 2(a) Hides For Habitat)	Partner (Eg; MDHA)	LCMR Allocation	LCMR Expenditure	LCMR Balance	Proposed Accomplishments			Current LCMR Accomplishments			Other Funds Committed	Other Funds Expenditure	Other Funds Balance	Other Funds Acres	# Demo sites	# workshops
					LCMR Acres	LCMR Miles/ Shoreline	LCMR Lakes Restored	LCMR Acres	LCMR Miles/ Shoreline	LCMR Lakes Restored						
Lakescaping 2(j)	Nongame,Eco, DNR	325,000	325,000	0	6			6			41,133	50,117			12	23



**ATTACHMENT D FOR LAKESCAPING, 02-03, CORRIDORS PROJECT**

CATEGORY	EST. BUDGET	SPENT
<b>PERSONNEL</b>	<b>235,000</b>	<b>214,258</b>
Rectifying the change in coding from other to Equip. & Supplies		

**EQUIPMENT AND SUPPLIES**

Equipment		
Computer	2,500	2,418
Supplies		
Plant materials	17,500	26,660
Bioengineering materials	10,000	11,732
<b>Subtotal, true equip &amp; supplies as budgeted</b>	<b>30,000</b>	<b>40,810</b>

**Other expenses coded by DNR as "equipment and supplies"**

Fleet		\$14,361
Workshop speaker fees		1,703
Meals at sites/workshops		2,489
Workshops		7,754
Photography		901
Printing signs		5,754
Develop video on plant propagation for workshops		2,864
<b>Subtotal</b>		<b>35,826</b>

**Subtotal for DNR coded equipment and supplies** **\$76,636**

**Other expenses**

Printing	8,000	6,858
Communications	5,000	582
Contracts for workshops	22,500	19,100
In-state travel	12,000	4,350
Space rental/facility rental	6,000	2,024
Miscellaneous expenditures	6,500	1,192
<b>Subtotal for other expenses</b>	<b>60,000</b>	<b>34,106</b>

**TOTAL PROJECT COST** **325,000** **325,000**

**Other project costs covered by DNR funds** **41,133** **\$50,117**