

**Project Abstract**

For the period ending June 30, 2005

**TITLE:** Lakescaping (Item 2.j. Wildlife Corridors Project)

**PROJECT MANAGER:** Carrol Henderson

**ORGANIZATION:** Minnesota Department of Natural Resources

**ADDRESS:** Box 25, DNR, 500 Lafayette Road, St. Paul, MN 55155

**WEB SITE ADDRESS:** [www.dnr.state.mn.us](http://www.dnr.state.mn.us)

**FUND:** Environmental Trust Fund

**LEGAL CITATION:** ML 2003, Ch. 128, Art. 1, Sec. 9, Subd. 5(a)

**APPROPRIATION AMOUNT:** \$229,100

**Overall Project Outcome and Results:**

This project provided guidance and cooperation with homeowners, realtors and the realty industry to promote and restore native plant buffer zones on lakeshore property by creating ten lakescaping buffer zone demonstration areas and by conducting five workshops for realtors who sell lakeshore property. This will bring to 36 the number of lakescaping demonstration sites that have been created through this long-term initiative. This will also bring to 44 the number of lakescaping-associated workshops that have been conducted statewide for private citizens and professionals associated with lake management and development.

Ten lakescaping buffer zone demonstration sites were selected, planned, and installed. This included plantings on 1239 linear feet of shoreline in five different wildlife corridors: Mississippi Headwaters (Lake Movil and Lake Julia in Beltrami County), Border Prairie (Lake Buchanan and Franklin Lake in Ottertail County, Red Rock Lake in Douglas County, and Lake Sallie in Becker County), Central Lakes (Lake Gilbert and Serpent Lake in Crow Wing County), and Alexandria Moraine (Lake Andrew and Middle Fork of the Crow River in Kandiyohi County).

Six realty workshops were held to teach realtors about the value of preserving shoreline property in natural habitat and vegetative cover to enhance water quality and property values. These workshops were held in five different wildlife corridors, including Border Prairie (Detroit Lakes -50 participants), Lower St. Louis River (Duluth-52 participants), Alexandria Moraine (Alexandria-83 participants and Willmar-93 participants), Big Woods North (St. Cloud -140 participants), and Southern Lakes (Mankato-30 participants). There were a total of 448 participants at these workshops, while the original goal was 250 participants.

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**2003 Project Abstract  
For the Period Ending June 30, 2006**

**TITLE:** Wildlife Corridors Project: Lakescaping for Wildlife and Water Quality-Phase II, project number 2(j). Project Areas include Area 2. Mississippi Headwaters; Area 3. Border Prairie; Area 4. Central Lakes; Area 5. Lower St. Louis River; Area 7. Alexandria Moraine; and Area 8. Big Woods North 10. Southern Lakes

**PROJECT MANAGER:** Carrol Henderson

**ORGANIZATION:** Division of Ecological Services, Department of Natural Resources

**ADDRESS:** DNR, Box 25, 500 Lafayette Road, St. Paul, MN 55155

**WEB SITE ADDRESS:** www.dnr.state.mn.us

**FUND:** Minnesota Environment and Natural Resources Trust Fund

**LEGAL CITATION:** ML 2003, Chapt. 128, Art. 1, Sec. 9, Subd. 5(a)

APPROPRIATION AMOUNT: \$223,100

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LCMR 2003 Work Program Update

Date of Report: November 1, 2005  
Date of Next Status Report: September 30, 2005  
Date of Work Program Approval: June 17, 2003  
Project Completion Date: June 30, 2005

I. PROJECT TITLE: Wildlife Corridors Project: Lakescaping for Wildlife and Water Quality-Phase II, project number 2(j). Project Areas include Area 2. Mississippi Headwaters; Area 3. Border Prairie; Area 4. Central Lakes; Area 5. Lower St. Louis River; Area 7. Alexandria Moraine; and Area 8. Big Woods North 10. Southern Lakes

Project Manager: Carrol Henderson  
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|                                     |                     |            |
|-------------------------------------|---------------------|------------|
| Total Biennial LCMR Project Budget: | LCMR APPROPRIATION: | \$ 223,100 |
|                                     | Minus Amount Spent: | \$ 223,100 |
|                                     | Balance:            | \$ 0       |

Re-allocation of Phase I (02-03) funds for Lakescaping supplies\*: \$ 6,000

\*The Habitat Corridors Partnership reallocated \$6000 of unspent Phase I funds on January 26, 2004, to buy plant materials for plantings that will occur in the demonstration sites. This requires an amendment to the current work plan. A separate result, Result 3, has been created for these expenditures in this work plan and in Appendix A so these funds can be tracked separately. These funds were expended by June 30, 2004.

Legal Citation: ML 2003, Chapt. 128, Art. 1, Sec. 9, Subd. 5(a).

(a) Restoring Minnesota's Fish and Wildlife Habitat Corridors - Phase II  
\$2,450,000 the first year and \$2,450,000 the second year are from the trust fund to the commissioner of natural resources for the second biennium for acceleration of agency programs and cooperative agreements with Minnesota Deer Hunters Association, Ducks Unlimited, Inc., National Wild Turkey Federation, Pheasants Forever, the Nature Conservancy, Minnesota Land Trust, the Trust for Public Land, Minnesota Valley National Wildlife Refuge Trust, Inc., U.S. Fish and Wildlife Service, U.S. Bureau of Indian Affairs, Red Lake Band of Chippewa, Leech Lake Band of Chippewa, Fond du Lac Band of

Chippewa, USDA-Natural Resources Conservation Service, and the board of water and soil resources to plan, restore, and acquire fragmented landscape corridors that connect areas of quality habitat to sustain fish, wildlife, and plants. 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 before expenditure. Expenditures are limited to the 11 project areas as defined in the work program. Land acquired with this appropriation must be sufficiently improved to meet at least minimum habitat and facility management standards as determined by the commissioner of natural resources. This appropriation may not be used for the purchase of residential structures unless expressly approved in the work program. 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, 2006, 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 AND III. PROGRESS SUMMARY:**

This project provided guidance and cooperation with homeowners, realtors and the realty industry to promote and restore native plant buffer zones on lakeshore property by creating ten lakescaping buffer zone demonstration areas and by conducting five workshops for realtors who sell lakeshore property. This will bring to 36 the number of lakescaping demonstration sites that have been created through this long-term initiative. This will also bring to 44 the number of lakescaping-associated workshops that have been conducted statewide for private citizens and professionals associated with lake management and development.

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North (St. Cloud –140 participants), and Southern Lakes (Mankato-30 participants). There were a total of 448 participants at these workshops, while the original goal was 250 participants.

**IV. OUTLINE OF PROJECT RESULTS:**

**Result 1.** Planning and installation of ten Lakescaping Demonstration Sites.

**Description:** Planned and developed ten new Lakescaping for Wildlife Demonstration Sites. These sites will be developed or expanded on private or public land with a cost-share of up to \$3500 per project matched by \$1000 from the property owner. Fourteen sites established in the previous LCMR grant period FY 00-01 and twelve sites established in the previous LCMR grant period FY 02-03 will be monitored in cooperation with the respective landowners. Project sites will be used for baseline educational events, documentation and demonstration of design and protection techniques for restoration and preservation of shoreline habitat. The demonstration sites will be considered in six habitat corridors including Border Prairie, Mississippi Headwaters, Central Lakes, Alexandria Moraine, Big Woods North, and Southern Lakes. This includes funds for one specialist and two nongame technicians to assist with planning and planting new demonstration sites, evaluating response at established sites, and collaborating with property owners about project expectations and site maintenance.

|   |                       |
|---|-----------------------|
| <b>Summary Budget Information for Result 1: LCMR Budget</b> | <b>\$ 153,600</b>     |
| <b>Amount spent</b>   | <b><u>153,600</u></b> |
| <b>Balance</b>  | <b>\$ 0</b>           |

**Completion Date: June 30, 2005.**

**Result 2:** Planning and carrying out five lakescaping workshops for lakeshore realtors

**Description:** Lakescaping workshops for realtors. **Budget:** \$69,500

Develop and carry out six workshops for approximately 250 members of the realty industry who deal with lakeshore property to inform them about lakeshore ecology, lakeshore management strategies, and how traditional land development and subdivision of lakeshore property creates major problems with shoreline erosion and declining water quality. Esthetically acceptable alternatives involving creation of naturalized buffer zones will be discussed with realtors so they can incorporate environmentally responsible suggestions and practices involving the sale and development of lakeshore property. The workshops would feature the lakescaping design and implementation features of the book Lakescaping for Wildlife and Water Quality and the Restore Your Shore Lakescaping CD-Rom so that the realty professionals could apply and endorse these concepts in their work.

|  |                  |
|--|------------------|
| <b>Summary Budget Information for Result 2: LCMR Budget:</b> | <b>\$ 69,500</b> |
|--|------------------|

|                 |               |
|-----------------|---------------|
| <b>Spent:</b>   | <u>69,500</u> |
| <b>Balance:</b> | \$ 0          |

**Completion Date:** May 1, 2005

**Result 3.** Provide funding to purchase \$6,000 worth of plant materials for lakescaping demonstration site plantings in the spring of 2004, from a reallocation of Phase I funds.

**Description:** Purchase plants for lakescaping demonstration sites. **Budget:** \$6,000;  
**Spent:** \$6,000;  
**Balance:** 0.

These funds were used to purchase plant materials for installation or replacement at LCMR lakescaping demonstration sites at Outing (\$207), Loftness/Jensen/Wachlorawicz sites (\$214), Taurig (\$136), Lake Buchanan (\$901), Lake Gilbert (\$1,259), Dodge (\$365), Lake Andrew (\$2,563), and Lake Movil (\$355). All plants were planted as planned.

**V. TOTAL PROJECT BUDGET (Phase II, final ):**

|   |                   |
|---|-------------------|
| <b>All Results: Personnel:</b>                    | <b>\$ 177,939</b> |
| <b>All Results: Prof. Tech Services:</b>          | <b>\$ 10,228</b>  |
| <b>All Results: Communications:</b>               | <b>\$ 644</b>     |
| <b>All Results: In-state travel:</b>              | <b>\$ 824</b>     |
| <b>All Results: Supplies/Fleet:</b>               | <b>\$ 26,476</b>  |
| <b>All Results: Equipment:</b>                    | <b>\$ 3,075</b>   |
| <b>All Results: Other expenses:</b>               | <b>\$ 3,914</b>   |
| <b>All Results: Plant materials(reallocation)</b> | <b>6,000</b>      |
| <b>TOTAL:</b>                                     | <b>\$ 229,100</b> |

- Prof/Technical Services (2DO) includes contracts with LUG workshop planners and presenters.
- Communications((2FO) includes assessments for phone services.
- In-state travel (2GO) includes motor pool charges for cars used for the LUG workshops.
- Supplies (2JO) primarily includes plant materials for installation on demonstration sites and bioengineering materials like fiber logs and fiber mats to control erosion on project sites.
- Equipment (2K0) primarily includes fleet costs associated with travel to project sites for site planning, evaluation, installation, and followup visits. Additional costs include tools and equipment for planting the demonstration sites, and computer equipment. However, no computer acquisitions are anticipated for Phase III.

- Other (2MO) includes lunch expenses for volunteers who install demonstration sites, and photography expenses associated with documenting work at project sites.

**TOTAL LCMR PROJECT BUDGET (Phase II plus Phase I reallocation: \$229,100)**

**VI. PAST, PRESENT AND FUTURE SPENDING:**

**A. Past Spending:** A total of \$325,000 was provided by the LCMR for the biennium of 2002-2003 for phase II of the lakescaping initiative as a part of the CH-01 Habitat Corridors Initiative. A total of \$140,000 was provided by the LCMR for the biennium of FY 00-01 to conduct 14 lakescaping workshops for the general public and to create 14 habitat demonstration sites.

**B. Current Spending:** In the biennium of '02 – '03, the Nongame Wildlife Program provided \$46,450 in financial support for this lakescaping project. A comparable level of support is expected in the new biennium. Additional matching funds will be provided by private homeowners on a 3.5:1.5 matching basis for installing lakescaping demonstration sites (4-6 sites @ \$2000-\$1333 = \$8,000) and \$6,000 in support of the workshops by private industry and DNR staff time. Staff for planning, administering and supervising the project will be provided by the Nongame Wildlife Program in the Division of Ecological Services and the Shoreland Habitat Program in the Division of Fisheries. Other funding for demonstration sites is expected to be 1/2 cash and 1/2 in-kind. Additional support will come from the Nongame Wildlife Program from lottery-in-lieu allocations to the Nongame Wildlife Program, in-kind staff support from Division of Ecological Services and Division of Fisheries, and allocations of MCC funding to the Nongame Wildlife Program for crew support for assistance in planting the demonstration sites.

**C. Required Match (if applicable):** None

**D. Future Spending:** Additional financial support will be allocated from the regional salaries from checkoff donations and lottery-in-lieu budgets of the nongame wildlife program staff to keep in touch with cooperating landowners regarding upkeep of restored lakeshore sites and troubleshooting problems relating to shoreline erosion or similar problems. This could involve a commitment of at least \$40,000 for the next biennium.

**VII. Project Partners:**

**A. Partners Receiving LCMR Funds:** None

**B. Project Cooperators:** Linda Erickson-Eastwood and John Hiebert, Section of Fisheries, St. Paul, and Leilani Peterson, Section of Fisheries, Willmar.

## **VIII. Dissemination:**

**A.** Completed lakescaping demonstration sites will have before and after photos placed on the DNR Section of Fisheries Shoreland Habitat Program web site so people can see the transformation that takes place with this procedure. Power point presentations with before and after photos of lakescaping sites will also be made available to the LCMR staff. Continuing news coverage will be provided depending on media interest.

**IX. LOCATION:** Lakescaping demonstration sites were selected for the following wildlife corridors: Border Prairie, Mississippi Headwaters, Central Lakes, and Alexandria Moraine. Realtor workshops have been carried out in those corridors and in the Lower St. Louis River Corridor and in the Southern Lakes Corridor at Detroit Lakes, Alexandria, Willmar, St. Cloud, Duluth and Mankato. Four lakescaping demonstration sites were planted in the summer of 2004 at Alexandria Moraine-Lake Andrew, Central Lakes-Gilbert Lake, Border Prairie-Lake Buchanan, and Mississippi Headwaters-Lake Movil. Six more sites have been selected for installation in the spring and early summer of 2005: Border Prairie-Red Rock Lake in Douglas County, Franklin Lake in Ottertail County, and Lake Sallie in Becker County, Central Lakes-Serpent Lake in Crow Wing County, Alexandria Moraine-Middle Fork Crow River in Kandiyohi County, and Mississippi Headwaters-Lake Julia in Beltrami County.

**X. REPORTING REQUIREMENTS:** A final work program report and associated products will be submitted by September 30, 2005.



| Attachment A, Lakescaping, 04-05       |         |         |         |         |        |        |         |         |        |
|--|---------|---------|---------|---------|--------|--------|---------|---------|--------|
| FY 04-05 Budget                        |         |         |         |         |        |        |         |         |        |
| BUDGET ITEM                            |         |         |         |         |        |        |         |         |        |
|  | Bud-2   | Spt-2   | Bal-2   | Bud-2   | Spt-2  | Bal-2  | Bud-2   | Spt-2   | Bal-2  |
| <b>PERSONNEL:</b>                      |         |         |         |         |        |        |         |         |        |
| Lindy Ekola                            | 90,000  | 97,048  | -7,048  | 0       | 0      | 0      | 90,000  | 97,048  | -7,048 |
| Bruce Lenning                          | 25,000  | 21,906  | 3,094   | 0       | 0      | 0      | 25,000  | 21,906  | 3,094  |
| Kevin Woizewchke                       | 15,000  | 16,618  | -1,618  | 0       | 0      | 0      | 15,000  | 16,618  | -1,618 |
| Jan Welsh                              | 0       | 0       | 0       | 53,500* | 42,367 | 11,133 | 53,500  | 42,367  | 11,133 |
| All personnel                          | 130,000 | 135,572 | -5,572  | 53,500* | 42,367 | 11,133 | 183,500 | 177,939 | 5,561  |
| <b>EQUIPMENT AND</b>                   |         |         |         |         |        |        |         |         |        |
| Equipment-                             | 500     | 320     | 180     | 3,000   | 2,755  | 245    | 3,500   | 3,075   | 425    |
| Fleet costs                            | 7,500   | 11,406  | -3,906  | 0       | 0      | 0      | 7,500   | 11,406  | -3,906 |
| Photography                            | 500     | 711     | -211    | 0       | 0      | 0      | 500     | 711     | -211   |
| Demo site signs                        | 0       | 0       | 0       | 0       | 0      | 0      | 0       | 0       | 0      |
| Supplies/plants                        | 10,600  | 11,604  | -1,004  | 0       | 0      | 0      | 10,600  | 11,604  | -1,004 |
| Bioeng. Materials                      | 0       | 0       | 0       | 0       | 0      | 0      | 0       | 0       | 0      |
| Wkshop supplies,                       | 0       | 0       | 0       | 4,850   | 1,317  | 3,533  | 4,850   | 1,317   | 3,533  |
| Supplies, meals at workshops/plantings | 2000    | 1705    | 295     | 1,000   | 444    | 556    | 3,000   | 2,149   | 851    |
| Speaker fees                           | 0       | 0       | 0       | 0       | 2,728  | -2,728 | 0       | 2,728   | -2,728 |
| Subtotal, equipment                    | 21,100  | 25,746  | -4,646  | 8,850   | 7,244  | 1,606  | 29,950  | 32,990  | -3,040 |
| <b>OTHER EXPENSES</b>                  |         |         |         |         |        |        |         |         |        |
| Printing costs                         | 0       | 145     | -145    | 0       | 0      | 0      | 0       | 145     | -145   |
| Communications,                        | 500     | 644     | -144    | 0       | 0      | 0      | 500     | 644     | -144   |
| Wkshop contract                        | 0       | 0       | 0       | 7,000   | 7,500  | -500   | 7,000   | 7,500   | -500   |
| In-state travel                        | 1000    | 566     | 434     | 150     | 260    | -110   | 1,150   | 826     | 324    |
| Workshop                               | 0       | 0       | 0       | 0       | 0      | 0      | 0       | 0       | 0      |
| Miscellaneous                          | 1,000   | 3,056   | -2,056  | 0       | 0      | 0      | 1,000   | 3,056   | -2,056 |
| Subtotal, Other                        | 2,500   | 4,411   | -1,911  | 7,150   | 7,760  | -610   | 9,650   | 12,171  | -2,521 |
| <b>PROJECT TOTALS</b>                  |         |         |         |         |        |        |         |         |        |
|  | 153,600 | 165,729 | -12,129 | 69,500  | 57,371 | 12,129 | 223,100 | 223,100 | 0      |