

**Environment and Natural Resources Trust Fund
2009 Phase 1 Request for Proposals (RFP)**

LCCMR ID: B14.09

Project Title: HCP - Lakescaping for Wildlife & Water Quality (2j)

Total Project Budget: \$ \$85,000

Proposed Project Time Period for the Funding Requested: July 2009 - June 2010 (1 yr)

Other Non-State Funds: \$ \$8,000

First Name: Carrol

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Sponsoring Organization: DNR

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Region:

County Name:

City / Township:

Statewide

Statewide

Summary: This project is designed to create eight demonstration sites on private land to show how buffer zones of native plants can improve wildlife habitat and water quality on a lakeshore.

Main Proposal: 0708-1-001-proposal-LCCMR lakescaping, 2009_main_proposal_template.doc

Project Budget: 0708-1-001-budget-LCCMR Lakescaping, RFP_2009_Project Budget.xls

Qualifications: 0708-1-001-qualifications-Carrol-bio, Lakescaping demo sites.doc

MAIN PROPOSAL

PROJECT TITLE: LAKESCAPING FOR WILDLIFE AND WATER QUALITY (2j).

Minnesota's Habitat Conservation Partnership Phase VI

www.mnhabitatcorridors.org

I. PROJECT STATEMENT:

The mission of the Habitat Conservation Partnership is to restore, enhance and conserve habitat for the purpose of sustaining fish, wildlife and plant communities for all generations. Minnesota's Habitat Conservation Partnership (Partnership), formerly the Habitat Corridors Partnership, was formed in 2000 to provide a framework for statewide land conservation in partnership with the Environmental Trust Fund. The work of the Partnership has three main objectives: 1) **Partnership:** working together to accelerate existing programs and identify new opportunities that build upon our existing investments in habitat. 2) **Focus:** The Phase V proposal will work in nine project areas encompassing 27,442 mi². All work proposed will occur within the identified project areas. These areas were identified as focus areas where resource conservation priorities and opportunity overlap 3) **Leverage:** the objective of this partnership is to bring more resources to bear on Minnesota's conservation need by identifying non-state contributions to accelerate habitat conservation by maximizing the results from limited funding through the Environmental Trust Fund.

Natural lake shoreline is one of the most endangered natural habitats in Minnesota, and those shorelines featuring native species on the shore and in the water play a major role in protecting water quality and in providing essential fish and wildlife habitat. This project provides an opportunity to provide Minnesota lakeshore owners with strategies for improving water quality and wildlife and fish habitat by creating or restoring native plant buffer zones along some of their shoreline frontage. This project is designed to select sites on private land along lakeshores to create demonstration sites for installation of local origin native plants on the shore and in the water to enhance shoreline habitats and provide landowner and lake benefits. Eight demonstration sites will be selected in HCP corridors 2, 3, and 4 and another eight sites installed in the previous year will be rechecked for maintenance needs or replacement of plants. In addition, signage and two field days will be sponsored to invite the public to visit demonstration sites and learn how to carry out similar projects on their own property. Each private homeowner signs a 10-year agreement to maintain their lakeshore planting.

This work will be accomplished as at his in the past with one 100% unclassified position and two 10% classified positions of Nongame Wildlife Program technicians/specialists who are otherwise assigned to a 90% position so there is not a problem with supplanting existing positions. The Nongame Wildlife Program and Section of Fisheries staff provide project guidance and supervision.

II. DESCRIPTION OF PROJECT RESULTS

Result 1: Select and install eight lakescaping demonstration sites **Budget:** \$ 77,000

A totals of eight lakescaping buffer zone demonstration sites will be selected, planned, and installed in habitat corridors 2, 3, and 4. These sites will be selected to demonstrate a variety of different kinds of treatments that can be used for lakeshore restoration.

Deliverable

1. Install four demonstration sites
2. Install four demonstration sites

Completion Date

October 1, 2009
June 30, 2010

Result 2. Check 8 lakescaping demonstration that have been previously installed as part of Phases IV and V to provide landowner assistance, assistance with site maintenance, and replacement of plants as needed. **Budget:** \$6,000.

| Deliverable | Completion Date |
|---|------------------------|
| 1. Check four demonstration sites, enhance as needed. | October 15, 2009 |
| 2. Check four demonstration sites, enhance as needed. | June 30, 2010 |

Result 3. Sponsor 2 field days for public visits to lakescaping demonstration sites. **Budget:** \$1,000.

| Deliverable | Completion Date |
|---|------------------------|
| 1. Sponsor and carry out two field days | October 1, 2009 |

Result 4. Collect local origin native plant seeds and materials for propagation and installation in future lakescaping demonstration sites. **Budget:** \$1,000

| Deliverable. | Completion Date |
|--|------------------------|
| 1. Collect plant seeds/propagules from 40 native species | November 1, 2009 |

III. PROJECT STRATEGY AND TIMELINE

A. Project Partners

This proposal is part of the Habitat Conservation Partnership Phase VI Proposal. Please see the main proposal for a complete list of partners involved.

B. Project Impact

Provide direct habitat benefits to 8 sites in 3 wildlife corridors and 750 linear feet of shoreline. The greatest benefit is in the multiplier effect provided as an example of how other lakeshore owners can improve and restore their shoreline. These sites will include a variety of locations and situations to demonstrate a variety of restoration techniques, and this provides considerable technical experience to DNR personnel who are involved with lakeshore management and restoration on a broader scale.

C. Time We propose a twelve-month grant beginning July 1, 2009 and ending on June 30, 2010.

D. Long-Term Strategy

This unique Partnership exists as a result of the desire of LCCMR to encourage conservation partners to work together as a statewide collaboration to focus resources and bring additional funds to Minnesota's wildlife habitat resources. We are 18 formal partner agencies and organizations recognized for an ability to achieve the mission of restoring, enhancing and conserving habitat for the purpose of sustaining fish, wildlife and native plant communities for all generations. Since 2000, this long term effort has completed restoration of 55 sites in 6 habitat corridors in 18 different counties. The long range goal is to establish a total of 100 demonstration sites over the next six years.

Project Budget

INSTRUCTIONS AND TEMPLATE (1 PAGE LIMIT)

IV. TOTAL PROJECT REQUEST BUDGET

| BUDGET ITEM <i>(See list of Eligible & Non-Eligible Costs, p. 17)</i> | AMOUNT | % FTE |
|--|-----------------|--------------|
| Personnel: | | |
| Lindy Ekola: 100%. Coordinate, select, plan, and install 8 demo sites | \$68,000 | 100% |
| Bruce Lenning: 10%. Assist with selection and installation, 4 sites | \$5,500 | 10% |
| Kevin Woizeschke, 10%. Assist with selection and installation, 4 sites | \$5,500 | 10% |
| Supplies: Plant materials and bioengineering supplies | \$6,000 | |
| TOTAL PROJECT BUDGET REQUEST TO LCCMR | \$85,000 | |

V. OTHER FUNDS

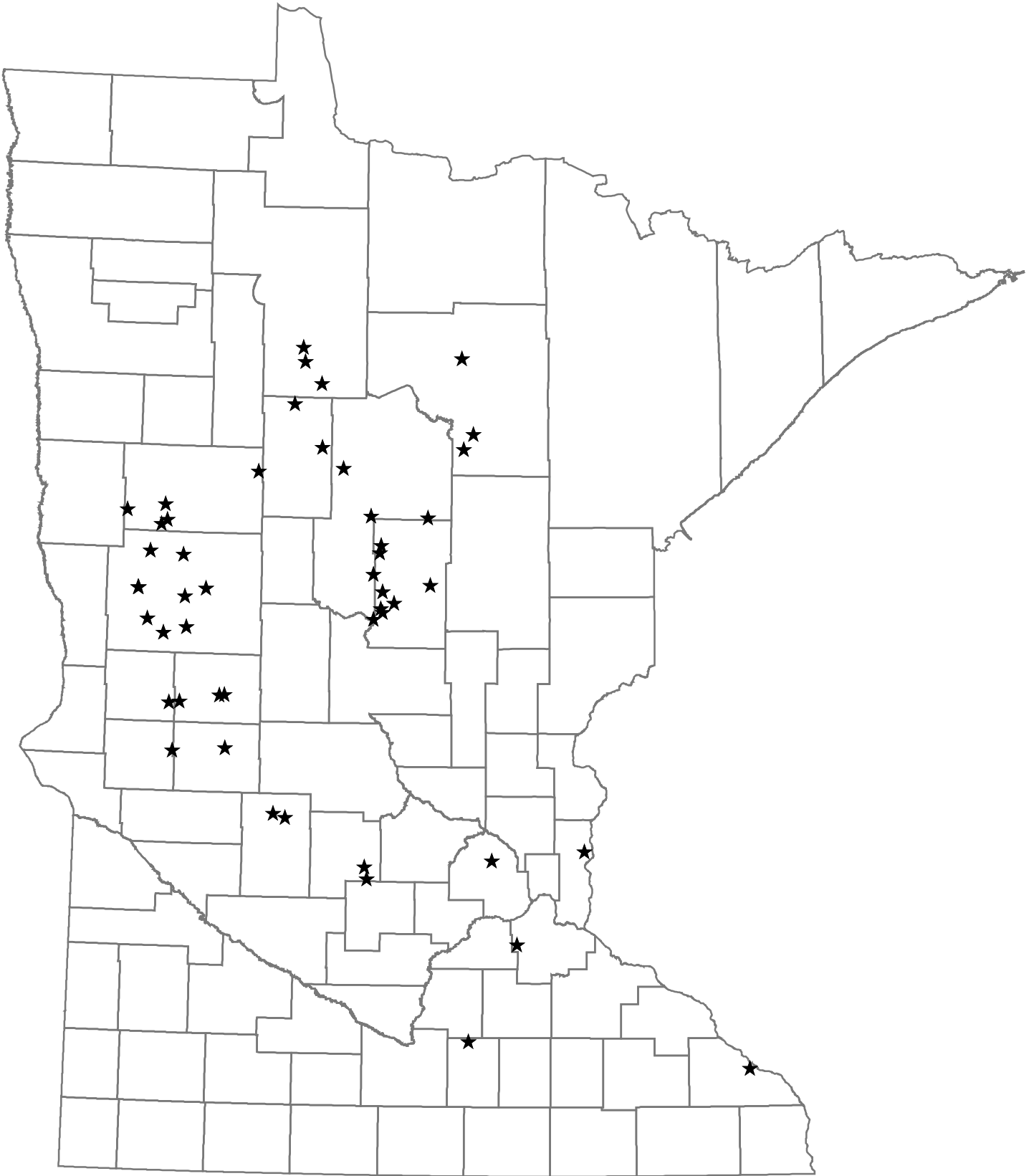
| SOURCE OF FUNDS | AMOUNT | Status |
|--|---------------|---------------------------|
| Remaining funds from previous trust fund appropriation for HCP Phase V, to be spent before July 1, 2009. | \$48,477.08 | Available |
| Other Nonstate \$ being leveraged during the project period: | \$8,000 | Pending |
| Other State \$ being spent during the project period | \$6,000 | Nongame Wildlife Funds |
| In-kind Services provided by cooperating landowners for installation | \$4,000 | Pending |
| Past spending from Phase IV funds, FY 08. | \$51,523 | Phase IV |

Carrol L. Henderson, bio

Carrol Henderson has been supervisor of the Minnesota Department of Natural Resources= Nongame Wildlife Program since 1977. He has a B.S. in zoology from Iowa State University (1968), and a Master of Forest Resources degree in ecology from the University of Georgia (1970).

Henderson is co-author of the DNR books “Landscaping for Wildlife” and “Lakescaping for Wildlife and Water Quality” and he was a major contributor to the production of the CD-Rom entitled “Restore Your Shore.” He was the original project manager for creation of Lakescaping for Wildlife and Water Quality buffer zone demonstration sites through a grant from the LCMR in 2000 and has managed that project and subsequent LCCMR grants that have resulted in the selection, planning, and installation of 55 shoreland buffer zones during the past 8 years. He has planned, organized, and carried out lakescaping workshops as part of those grants for lakeshore homeowners, lake associations, nursery managers, realtors, and officials from local units of government.

One of the strengths of this project is the high level of collaboration and cooperation between the Division of Ecological Resources and the Section of Fisheries’ Shoreland Management Program.



| Year | Phase | Project # | Corridor Name | Corridor | County | Lake or site name | Nearest city | Zip | Date Installed | GPS Corridinates | Front | Twsp | Rng | S | DOW# |
|-------|-------|-----------|-------------------------|----------|------------|------------------------------------|----------------|-------|----------------|------------------|-------|------|-----|----|------------|
| 00-01 | 0 | FPR05000 | N/A | | Cass | Ada | Pine River | 56474 | 1-Jun-01 | 396249 5186399 | 120 | 139 | 29 | 28 | 11-0250-00 |
| 00-01 | 0 | FPR01000 | Alexandria Moraine | 7 | Pope | Barsness Park | Glenwood | 56334 | 3-Jun-02 | 314219 5056772 | 1650 | 125 | 37 | 18 | |
| 00-01 | 0 | FPR04000 | Border Prairie | 3 | Becker | Beseau | Lake Park | 56554 | 7-Jul-00 | 259764 5190557 | 140 | 139 | 43 | 29 | 03-0638-00 |
| 00-01 | 0 | FPR06000 | Ms Headwaters | 2 | Hubbard | Kabekona | Laporte | 56461 | 12-Jun-00 | 368834 5225023 | 139 | 143 | 32 | 28 | 29-0075-00 |
| 00-01 | 0 | FPR14000 | N/A | | Dakota | Marion | Lakeville | 55044 | 12-Jun-00 | 477766 4946545 | 315 | 114 | 21 | 24 | 19-0026-00 |
| 00-01 | 0 | FPR09000 | Central Lakes | 4 | Crow Wing | North Long | Brainerd | 56401 | 3-Aug-00 | 402626 5144118 | 175 | 134 | 29 | 1 | 18-0372-00 |
| 00-01 | 0 | FPR07000 | Ms Headwaters | 2 | Itasca | Siseebakwet | Cohasset | 55721 | 19-Jun-00 | 447884 5223587 | 150 | 54 | 26 | 18 | 31-0554-00 |
| 00-01 | 0 | FPR03000 | N/A | | Becker | Two Inlets | Park Rapids | 56470 | 5-Jun-00 | 333295 5211502 | 315 | 141 | 36 | 14 | 03-0017-00 |
| 00-01 | 0 | FPR02000 | Border Prairie | 3 | Ottertail | Wall | Fergus Falls | 56537 | 1-May-00 | 270920 5129354 | 130 | 132 | 42 | 4 | 56-0658-00 |
| 00-01 | 0 | FPR10000 | Border Prairie | 3 | Meeker | Washington | Darwin | 55324 | 26-Jun-00 | 392200 4990124 | 120 | 118 | 29 | 6 | 47-0046-00 |
| 00-01 | 0 | FPR13000 | Mississippi Bluff Lands | 11 | Winona | Winona | Winona | 55987 | 9-Aug-00 | 608292 4877378 | 121 | 107 | 7 | 27 | 85-0011-00 |
| 02-03 | 0 | FPR15000 | N/A | | Hennepin | Fish | Maple Grove | 55311 | 8-Jul-04 | 463684 4993343 | 85 | 119 | 22 | 27 | 27-0118-00 |
| 02-03 | 1 | FPR16000 | N/A | | Washington | Big Carnelian | Stillwater | 55082 | 22-May-01 | 545431 4998574 | 50 | 31 | 20 | 26 | 82-0049-00 |
| 02-03 | 1 | FPR19000 | Border Prairie | 3 | Ottertail | Clitherall | Battle Lake | 56515 | 28-May-02 | 292756 5124565 | 180 | 132 | 40 | 15 | 56-0238-00 |
| 02-03 | 1 | FPR25000 | Border Prairie | 3 | Ottertail | Stalker | Dalton | 56501 | 15-May-03 | 279890 5121571 | 150 | 132 | 41 | 29 | 56-0437-00 |
| 02-03 | 1 | FPR20000 | Border Prairie | 3 | Grant | Elk | Hoffman | 56339 | 10-Jun-02 | 282907 5082571 | 285 | 128 | 41 | 26 | 26-0040-00 |
| 02-03 | 1 | FPR21000 | Central Lakes | 4 | Cass | Roosevelt | Baxter | 56425 | 24-Jun-02 | 427985 5185447 | 350 | 139 | 26 | 27 | 11-0043-00 |
| 02-03 | 1 | FPR24000 | Border Prairie | 3 | Becker | Curfman | Detroit Lakes | 56501 | 28-May-03 | 282247 5184727 | 140 | 138 | 41 | 10 | 03-0363-00 |
| 02-03 | 1 | FPR26000 | Central Lakes | 4 | Cass | Hardy | Pillager | 56473 | 15-Jun-03 | 397487 5128586 | 240 | 133 | 29 | 28 | 11-0209-00 |
| 02-03 | 1 | FPR28000 | Southern Lakes | 10 | Waseca | Reeds | Medford | 55049 | 15-Jun-03 | 450615 4892372 | 110 | 108 | 23 | 5 | 81-0055-00 |
| 02-03 | 1 | FPR17000 | Ms Headwaters | 2 | Cass | Leech | Walker | 56484 | 15-Jul-02 | 380816 5213043 | 123 | 141 | 31 | 2 | 11-0203-00 |
| 02-03 | 1 | FPR18000 | Ms Headwaters | 2 | Itasca | Little Jay Gould | Cohasset | 55721 | 17-Jun-02 | 453436 5232073 | 128 | 55 | 26 | 14 | 31-0566-00 |
| 02-03 | 1 | FPR23000 | Ms Headwaters | 2 | Beltrami | Stump | Bemidji | 56601 | 15-Jun-03 | 368707 5260702 | 240 | 146 | 32 | 4 | 04-0130-01 |
| 2004 | 1 | FPR32000 | Border Prairie | 3 | Ottertail | Buchanan | Ottertail | 56571 | 19-Jun-04 | 303668 5146119 | 90 | 134N | 39W | 11 | 56-0209-00 |
| 2004 | 1 | FPR31000 | Central Lakes | 4 | Crow Wing | Gilbert | Brainerd | 56401 | 2-Jun-04 | 408867 5137643 | 175 | 134N | 28W | 28 | 18-0320-00 |
| 2004 | 1 | FPR30000 | Alexandria Moraine | 7 | Kandiyohi | Andrew | Spicer | 56288 | 7-Jun-04 | 341194 5019999 | 185 | 121N | 35W | 12 | 34-0206-00 |
| 2004 | 1 | FPR33000 | Ms Headwaters | 2 | Beltrami | Movil | Bemidji | 56601 | 24-Jun-04 | 359349 5273093 | 66 | 148N | 33W | 33 | 04-0152-00 |
| 2005 | 2 | FPR38000 | Border Prairie | 3 | Douglas | Red Rock | Hoffman | 56339 | 15-May-05 | 288809 5082922 | 104 | 128 | 40 | 29 | 21-0291-00 |
| 2005 | 2 | FPR36000 | Border Prairie | 3 | Ottertail | Franklin | Pelican Rapids | 56572 | 21-May-05 | 272605 5167501 | 125 | 136 | 42 | 4 | 56-0759-00 |
| 2005 | 2 | FPR41000 | Border Prairie | 3 | Becker | Sallie | Detroit Lakes | 56501 | 6-Jun-05 | 278815 5182456 | 150 | 138 | 41 | 20 | 03-0359-00 |
| 2005 | 2 | FPR37000 | Central Lakes | 4 | Crow Wing | Serpent | Deerwood | 56444 | 10-Jun-05 | 429255 5147671 | 110 | 46 | 28 | 7 | 18-0090-00 |
| 2005 | 2 | FPR39000 | Alexandria Moraine | 7 | Kandiyohi | Middle Fork-Crow R | New London | 56273 | 27-Jun-05 | 347999 5017916 | 100 | 121 | 34 | 10 | 34-0158-00 |
| 2005 | 2 | FPR40000 | Ms Headwaters | 2 | Beltrami | Julia | Bemidji | 56601 | 27-Jun-05 | 358448 5280828 | 200 | 148 | 33 | 4 | 04-0166-00 |
| 2006 | 3 | ELKS1000 | Ms Headwaters | 2 | Hubbard | Plantagenet | Bemidji | 56601 | 1-Jun-06 | 353406 5249245 | 100 | 145 | 34 | 13 | 29-0156-00 |
| 2006 | 3 | ELKS2000 | Border Prairie | 3 | Ottertail | Long | Erhard | 56534 | 14-Jun-06 | 266093 5147004 | 140 | 134 | 43 | 12 | 56-0784-00 |
| 2006 | 3 | ELKS2000 | Border Prairie | 3 | Ottertail | Long | Erhard | 56534 | 7-Jun-06 | 265767 5147040 | 160 | 134 | 43 | 12 | 56-0784-00 |
| 2006 | 3 | ELKS2000 | Border Prairie | 3 | Ottertail | Little MacDonald | Ramsey | 55303 | 12-Jun-06 | 291015 5165141 | 160 | 136 | 40 | 9 | 56-0328-00 |
| 2006 | 3 | ELKS2000 | Border Prairie | 3 | Douglas | Brophy | Alexandria | 56308 | 25-May-06 | 311182 5086452 | 82 | 128 | 38 | 10 | 21-0102-00 |
| 2006 | 3 | ELKS2000 | Border Prairie | 3 | Becker | Floyd | Detroit Lakes | 56501 | 30-May-06 | 281188 5193398 | 100 | 139 | 41 | 16 | 03-0387-00 |
| 2006 | 3 | ELKS3000 | Central Lakes | 4 | Crow Wing | Perch | Baxter | 56425 | 30-May-06 | 402477 5132613 | 90 | 133 | 29 | 13 | 18-0371-00 |

| Year | Phase | Project # | Corridor Name | Corridor | County | Lake or site name | Nearest city | Zip | Date Installed | GPS Corridinates | Front | Twsp | Rng | S | DOW# |
|------|-------|-----------|----------------|----------|-----------|----------------------------------|---------------|-------|-----------------|------------------|-------|------|-----|----|------------|
| 2007 | 3 | ELKS3000 | Central Lakes | 4 | Crow Wing | White Sand | | | 16-May-07 | 401520 5134669 | 100 | 137 | 27 | 29 | 18-0310-00 |
| 2007 | 3 | ELKS2000 | Border Prairie | 3 | Becker | Big Cormorant | Audubon | 56511 | 7-Jun-07 | | 91 | 138 | 42 | 19 | 03-0576-00 |
| 2007 | 3 | ELKS1000 | Ms Headwaters | 2 | Cass | Upper Gull | | | 14-Jun-07 | 397500 5153942 | 74 | 135 | 29 | | 11-0218-00 |
| 2008 | 3 | ELKS2000 | Border Prairie | 3 | Ottertail | Ottertail | Battle Lake | 56515 | 3-Jul-07 | 291922 5141861 | 65 | 134 | 40 | 22 | 56-0242-00 |
| 2008 | 3 | ELKS2000 | Border Prairie | 3 | Douglas | Darling | Alexandria | 56308 | 9-Aug-07 | 313969 5086671 | 79 | 128 | 38 | 12 | 21-0080-00 |
| 2009 | 4 | | Central Lakes | 3 | Crow Wing | Lower Hay Lake | North Mankato | 56003 | Aug 4-8, 2007 | 401703 5170052 | 75 | 137 | 29 | 13 | |
| 2009 | 4 | | Central Lakes | 3 | Crow Wing | Upper Hay Lake | Oelwein, Iowa | 50662 | July 9-11, 2007 | 401063 5165825 | 70 | 137 | 29 | 36 | |
| 2008 | 3 | ELKS2000 | Border Prairie | 3 | Stevens | Charlotte | Cyrus | 56323 | Jun-08 | 284723 5055462 | | 125 | 41 | 24 | 75-0046-00 |
| 2008 | 4 | ELKS2000 | Border Prairie | 3 | Meeker | Lake Jennie | | | June 23-24, 200 | 393612 4983417 | 120 | 118 | 29 | 29 | 47-0015-00 |
| 2008 | 4 | | Central Lakes | 4 | Crow Wing | Nisswa Lake | Nisswa | 56468 | June 11-13, 08 | | 135 | 135 | 29 | 15 | |
| 2009 | 4 | ELKS3000 | Central Lakes | 4 | Crow Wing | Lower Whitefish | | | Aug 12-13, 2008 | | 500 | 137 | 27 | 29 | 18-0310-00 |
| 2009 | 4 | ELKS3000 | Central Lakes | 4 | Crow Wing | Sibley | Pequot Lakes | | Aug-4-6, 2008 | | 75 | 136 | 29 | | 18-0404-00 |
| 2009 | 4 | ELKS2000 | Border Prairie | 3 | Ottertail | Round | Ottertail | 56571 | Aug 11-15, 08 | | 156 | 135 | 36 | 22 | 56-0214-00 |
| 2009 | 4 | ELKS2000 | Border Prairie | 3 | Becker | Middle Cormorant | Lake Park | 56554 | July of 2008 | | 480 | 138 | 43 | 22 | 03-0602-00 |
| | | F8840 | Ms Headwaters | 2 | Itasca | Turtle Lake | Grand Rapids | | | 446862 5274605 | | | | | 31-0725-00 |