

2009 Project Abstract

For the Period Ending June 30, 2011

PROJECT TITLE: Phase VI – Lakescaping for Wildlife and Water Quality (2J)
Minnesota's Habitat Conservation Partnership

Project Manager: Carrol Henderson

Affiliation: DNR Division of Ecological and Water Resources

Mailing Address: 500 Lafayette Road, Box 25

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FUNDING SOURCE: Environment and Natural Resources Trust Fund

LEGAL CITATION: ML 2009, Chapter 143, Section 2, Subd. 4e2j

APPROPRIATION AMOUNT: \$75,000

Overall Project Outcome and Results

For Phase 6 of the Habitat Corridors Partnership project a total of eight lakescaping buffer zones were proposed for selection, planning, and installation in habitat corridors 3, 4, 7, and 9. This project exceeded that goal for a total of nine buffer zones, which were completed on schedule and under budget, totaling 1298 frontage feet of shoreline. This equates to an average cost of \$55.82 per foot for planning, installing, and maintaining these shoreline buffer zones which are designed to improve water quality and fish and wildlife habitat.

In addition to the buffer zones, two field days were provided for the public in 2010 to view buffer zones that had previously been installed. One field day was held near Grand Rapids and one was held in the Alexandria vicinity.

The final component of this activity was to collect native origin plant seeds and propagules in 2009 and 2010 for propagation and subsequent planting on buffer zone sites. The goal was to collect seeds for a total of 80 plant species. However, a total of 92 species of native plant seeds and propagules were collected and subsequently used in the plantings.

This has been a very successful effort and an excellent partnership between the DNR's Division of Ecological and Water Resources and the Division of Fish and Wildlife to carry out this effort to promote stewardship of lakeshore habitat on private shorelands.

Project Results Use and Dissemination

Completion of Phase 6 brings to 73 the total number of lakescaping buffer zone demonstration areas that have been installed in 7 habitat corridors in 22 Minnesota counties since May of 2000 with LCMR and LCCMR support provided from the Minnesota Environment and Natural Resources Trust Fund. This initiative has been instrumental in promoting this concept of lakeshore stewardship not only throughout Minnesota but also in adjacent states and as far off as Washington state and South Carolina. The book *Lakescaping for Wildlife and Water Quality* and the new on-line version of *Restore Your Shore* provide a continuing source of information for people to learn how to plan and install their own buffer zones. Also, the DNR Shoreland Habitat Program continues to offer on-the-ground assistance to local lakeshore

associations, landowners, and local and county units of government to initiate lakeshore buffer zones throughout the state. The LCCMR deserves considerable credit for providing funding to help promote this essential concept for stewardship of privately owned lakeshore in Minnesota.

LCCMR Work Program Final Report
Restoring Minnesota's Fish and Wildlife Habitat Corridors Phase 6
Habitat Conservation Partnership

2J:Lakescaping - MN DNR - Division of Ecological Services

Project Manager:	Carrol Henderson	Fund:	Environment and Natural Resources Trust Fund
Affiliation:	MN DNR - Division of Ecological Services		
Address:	500 Lafayette Rd. St. Paul, MN 55155	Legal Citation:	ML 2009, Chapter 143, Section 2, Subd. 4(e)
Phone:	(651) 259-5104		
Fax:	(651) 297-4961		
E-mail:	carrol.henderson@state.mn.us		

Total Biennial Project Budget

Result	ENTF Allocation	ENTF Funds Spent	ENTF Balance	Other Funds Proposed	Other Funds Spent
Restoration	\$75,000	\$72,458	\$2,542	\$0	\$0
Total	\$75,000	\$72,458	\$2,542	\$0	\$0

Work Program Summary

Overall Project Outcome and Results

Please Input a Overall Project Outcome and ResultsPhase 6 of the lakescaping projects was completed by June 30, 2011. A total of eight lakescaping buffer zones were proposed for selection, planning, and installation in habitat corridors 3, 4, 7, and 9. A total of nine buffer zones were completed on schedule and under budget, totaling 1298 frontage feet of shoreline. This equates to an average cost of \$55.82 per foot for planning, installing, and maintaining these shoreline buffer zones which are designed to improve water quality and fish and wildlife habitat.

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2J:Lakescaping - MN DNR - Division of Ecological Services

Restoration Activities

Project Area - 3 - Border Prairie

Project Name: Jewett Lake				
Tract: 1 Township: 134, Range: 43, Section: 23				
Activity: Shoreline Habitat Restoration / Stabilization				
Landtype: Private - Lake				
Description: This site on Jewett Lake has been selected, planned, and was installed on June 9-10, 2010.				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$7,867.00	1.00	140.00
Project Name: Lake Vermont				
Tract: 1 Township: 130, Range: 37, Section: 7				
Activity: Shoreline Habitat Restoration / Stabilization				
Landtype: Private - Lake				
Description: This lakescaping site has been selected, planned, and was planted on June 17-18, 2010.				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$7,477.00	1.00	100.00
Project Name: Lake Mary				
Tract: 1 Township: 128, Range: 38, Section: 33				
Activity: Shoreline Habitat Restoration / Stabilization				
Landtype: Private - Lake				
Description: Three hundred feet of shoreline on Lake Mary were planned, prepared, and planted with local origin native plants to create a shoreline buffer zone demonstration area.				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$12,000.00	1.00	300.00
Project Name: Beebe Lake				
Tract: # 1 Township: 120, Range: 24, Section: 29				
Activity: Shoreline Habitat Restoration / Stabilization				
Landtype: Private - Lake				
Description: A total of 150 feet of shoreline was planned, prepared, and planted with local origin native plants on June 25-26, 2011. This site is near St. Michael in Wright County.				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$7,050.00	1.00	150.00
Project Name: Beebe Lake				
Tract: # 2 Township: 120, Range: 24, Section: 29				
Activity: Shoreline Habitat Restoration / Stabilization				
Landtype: Private - Lake				
Description: A total of 150 of shoreline was selected on this property in fall of 2010. It was planned, prepared, and planted with local origin native plants on June 25-26, 2011.				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$7,150.00	1.00	150.00

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2J:Lakescaping - MN DNR - Division of Ecological Services

Project Area - 4 - Central Lakes

Project Name:	Rice Lake
Tract:	1 Township: 45, Range: 30, Section: 17
Activity:	Shoreline Habitat Restoration / Stabilization
Landtype:	Private - Lake
Description:	This project was installed on May 4, 2010.

<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$8,596.00	1.00	125.00

Project Name:	Lake Alexander
Tract:	1 Township: 132, Range: 25, Section: 30
Activity:	Shoreline Habitat Restoration / Stabilization
Landtype:	Private - Lake
Description:	One hundred feet of shoreline were planted to native plants to create a buffer zone on June 14, 2010.

<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$7,476.00	1.00	100.00

Project Name:	White Sand Lake
Tract:	# 1 Township: 133, Range: 29, Section: 12
Activity:	Shoreline Habitat Restoration / Stabilization
Landtype:	Private - Lake
Description:	A total of 75 frontage feet of shoreline was selected on this property in fall of 2010. It was planned, prepared, and planted on June 28, 2011 wit local origin native plants.

<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$4,842.00	1.00	75.00

Project Area - 7 - Alexandria Moraine

Project Name:	Lake Villard
Tract:	1 Township: 126, Range: 37, Section: 14
Activity:	Shoreline Habitat Restoration / Stabilization
Landtype:	Private - Lake
Description:	Four hundred feet of shoreline were planned, prepared, and planted with local origin native plants to create a buffer zone along the shoreline.

<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$10,000.00	1.00	400.00

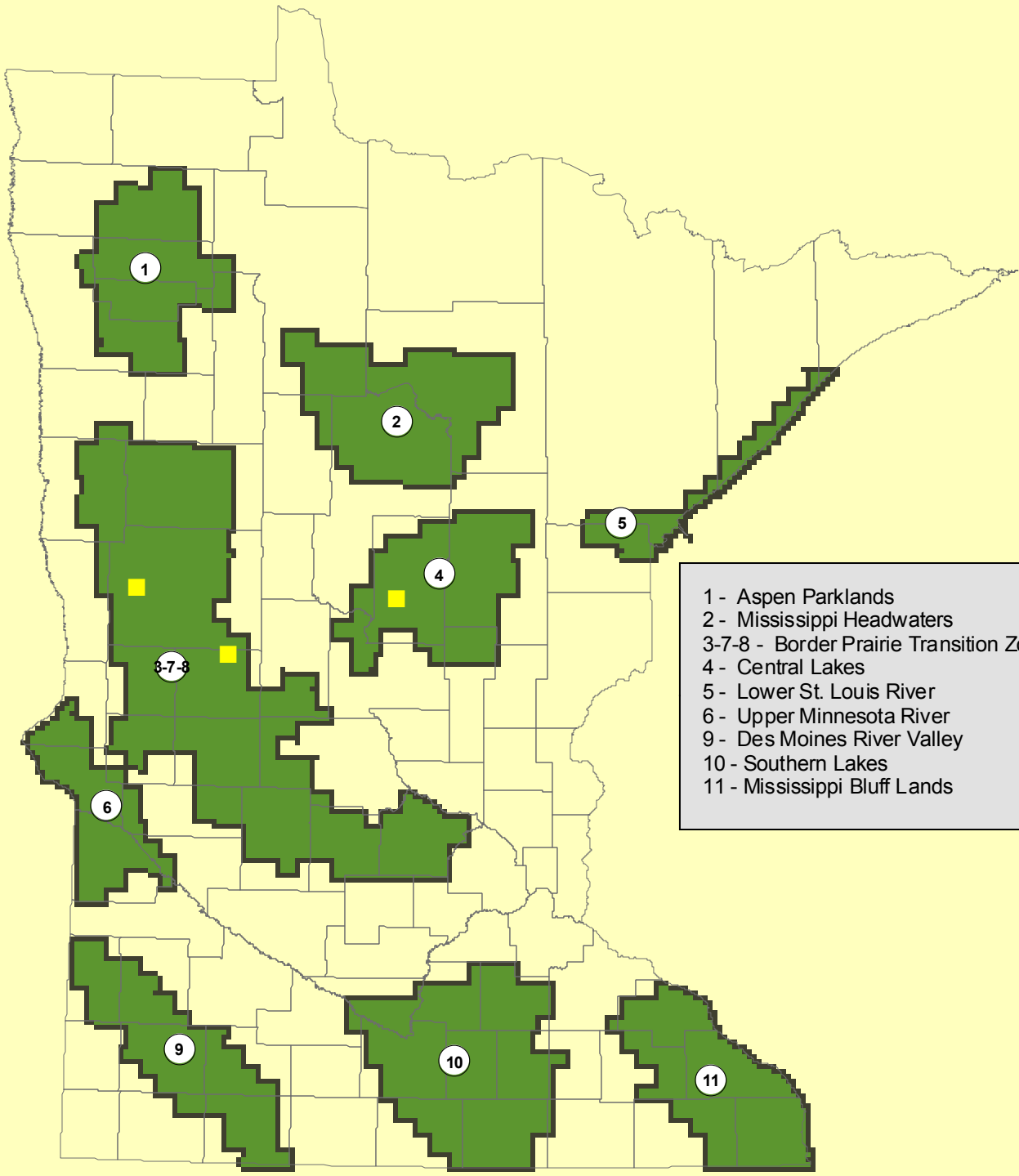
Restoration Project Totals (By Funding Type)

Funding Type	Funding Amount	Acres	Shoreline Feet
ENTF:	\$72,458.00	9.00	1,540.00
Total:	\$72,458.00	9.00	1,540.00

Attachment A: Budget Detail for Phase 6 Projects - Summary and a Budget page for each partner											
Project Title: Lakescaping 2j	Minnesota's Habitat Corridors Partnership (VI)										
Project Manager Name: Carrol Henderson	Final. Sept. 12, 2011.										
Trust Fund Appropriation: \$75,000											
2008 Trust Fund Budget	<u>Result 1 Budget:</u>	Amount Spent <i>(date)</i>	Balance	<u>Result 2 Budget:</u>	Amount Spent <i>(date)</i>	Balance <i>(date)</i>	<u>Result 3 Budget:</u>	Amount Spent <i>(date)</i>	Balance <i>(date)</i>	TOTAL BUDGET	TOTAL BALANCE
	Demo sites			Field Trips			Seed collection				
BUDGET ITEM											
PERSONNEL: wages and benefits 100% fisheries specialist Lindy Ekola, \$60,000 & 2 10% wildlife techs @ \$5000 = \$70,000	52,000	53,340	-1,340	500	192	308	1,000	409	591	53,500	-441
Other Supplies. Plants; bioengineering materials;meals for volunteers	20,000	17,467	2,533	500	0	500	0	0	0	20,500	3,033
Travel/fleet expenses in Minnesota	1,000	1,051	-51	0	0	0	0	0	0	1,000	-51
COLUMN TOTAL	\$73,000	\$71,858	\$1,142	\$1,000	\$192	\$808	\$1,000	\$409	\$591	\$75,000	\$2,541

Habitat Conservation Partnership Lakescaping

2J



- 1 - Aspen Parklands
- 2 - Mississippi Headwaters
- 3-7-8 - Border Prairie Transition Zone
- 4 - Central Lakes
- 5 - Lower St. Louis River
- 6 - Upper Minnesota River
- 9 - Des Moines River Valley
- 10 - Southern Lakes
- 11 - Mississippi Bluff Lands

■ Restorations ■ Easements ■ Acquisitions

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Travel/fleet expenses in Minnesota	1,000	1,051	-51	0	0	0	0	0	0	1,000	-51
COLUMN TOTAL	\$73,000	\$71,858	\$1,142	\$1,000	\$192	\$808	\$1,000	\$409	\$591	\$75,000	\$2,541

Lakescaping Demo Sites

Year	Phase	Project #	Corridor Name	Corridor	HCP project #	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		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	5143	Crow Wing	Gilbert	Brainerd	56401	2-Jun-04	408867 5137643	175	134N	28W	28	18-0320-00
2004	1	FPR30000	Alexandria Moraine	7	5881	Kandiyohi	Andrew	Spicer	56288	7-Jun-04	341194 5019999	185	121N	35W	12	34-0206-00
2004	1	FPR33000	Ms Headwaters	2	5141	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	5882	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
2007	3	ELKS3000	Central Lakes	4		Crow Wing	White Sand	Baxter	56425	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

Lakescaping Demo Sites

Year	Phase	Project #	Corridor Name	Corridor	HCP project #	County	Lake or site name	Nearest city	Zip	Date Installed	GPS Corridinates	Front	Twsp	Rng	S	DOW#
2007	3	ELKS1000	Ms Headwaters	2		Cass	Upper Gull	Nisswa		14-Jun-07	397500 5153942	74	135	29	4	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
2008	4		Central Lakes	3		Crow Wing	Lower Hay Lake	Pequot Lakes	56003	Aug 6-7, 2007	401703 5170052	75	137	29	13	
2008	4		Central Lakes	3	6783	Crow Wing	Upper Hay Lake	Pequot Lakes	50662	July 9-11, 2007	401063 5165825	70	137	29	36	
2008	4	ELKS2000	Border Prairie	3		Stevens	Charlotte	Cyrus	56323	June 11-12, 2008	284723 5055462	80	125	41	24	75-0046-00
2008	4	ELKS2000	Border Prairie	8	6375	Meeker	Lake Jennie			June 23-24, 2008	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	Cross Lake		Aug 12-13, 2008	408149 5172450	200	137	27	29	18-0310-00
2009	4	ELKS3000	Central Lakes	4		Crow Wing	Sibley	Pequot Lakes		Sept. 9-10, 2008	398630 5160546	75	136	29	15	18-0404-00
2009	4	ELKS2000	Border Prairie	3		Ottertail	Round	Ottertail	56571	Aug 13-15, 2008	302010 5151737	120	135	36	22	56-0214-00
2009	4	ELKS2000	Border Prairie	3	6849	Becker	Middle Cormorant	Lake Park	56554	June 1-5, 2009	263650 5183039	480	138	43	22	03-0602-00
2009	4		Border Prairie	3	6852	Douglas	Lake Andrew	Alexandria	56308	May 20-21, 2009	0313486 5077484	100	127	38	12	21-0085-00
2009	4		Border Prairie	3	6853	Grant	Pelican Lake	Ashby	56309	June 11-13, 2009	2800978 5104072	100	130	41	22	26-0002-00
2009	4		Central Lakes	4	6850	Crow Wing	Lower Cullen			June 10-11,2009	E4019970 N 5454658	100	135	29	1	
2009	4		Central Lakes	4	6851	Crow Wing	Lower Cullen			June 10-11,2009	E 401967 N 544640	100	135	29	1	
2009	5		Des Moines	9	6855	Murray	Fulda	Fulda	56131	June -- 2009	E291424 N4858795	120	105	40	36	51-0021
	5		Des Moines	9	6949	Murray	Sarah # 1	Garvin	56132	10-Aug-09	E280291 N4892560	100	108	41	15	51-0063
	5		Des Moines	9	6950	Murray	Sarah # 2	Garvin	56132	10-Aug-09	E280309 N4892551	100	108	41	15	51-0063
2009	5		Ms Headwaters	2	6856	Itasca	Sugar Lake	Grand Rapids	55744	15-16 July, 2009	E774810 N52223609	85	54	26	18	31-0554-00
2009	5		Des Moines	9	6857	Jackson	Fish Lake	Windom	56101	June 7-9, 2010	E335272 N4856956	110	104	35	4	32-0018
	5		Central Lakes	4	6951	Crow Wing	Hartley	Brainerd	56401	July 21-22, 2009	399213 5141438	180	134	29	15	18-0392 done
2010	6		Central Lakes	4	7022	Crow Wing	Rice Lake	Brainerd	56401	4-May-10	410810 5136611	125	45	30	17	18-145
2010	6		Central Lakes	4	7034	Morrison	Lake Alexander	Pillager	56473	14-Jun-10	383642 5154961	100	132	25	30	49-79
2010	6		Border Prairie	3	7014	Ottertail	Jewett Lake	Fergus Falls	56537	June 9-10, 2010	E264784 N5143816	140	134	43	23	56-0877-00
2010	6		Border Prairie	3	7015	Douglas	Lake Vermont	Parkers Prairie	56361	June 17-18, 2010	E316353 N5106906	100	130	37	7	21-0073-00
	6		Alexandria Moraine	7		Pope	Lake Villard	Villard	56385	15-Apr-11	E321600 N5065442	400	126	37	14	61-0067-00
	6		Border Prairie	3		Wright	Beebe Lake	St. Michael	55376	June 25-26, 2011	E442440 N5003046	150	120	24	29	86-0023-00
2010	6		Des Moines	9		Wright	Beebe Lake	St. Michael	55376	June 25-26, 2011	E335272 N4856956	150	120	24	29	86-0023-00
			Central Lakes	4		Crow Wing	White Sand Lake	Baxter	56425	28-Jun-11	E401822 N513409		133	29	12	18-0379-00
2010	6		Border Prairie	3		Douglas	Lake Mary	Alexandria	56308	May 19-21, 2011	E308653 N5079943	300	128	38	33	21-0092-00