

2001 Project Abstract

For the Period Ending June 30, 2004

AUG - 9 2004

TITLE: Big Rivers Partnership: Helping Communities to Restore Habitat

PROJECT MANAGER: Deborah Karasov

ORGANIZATION: Great River Greening

ADDRESS: 35 West Water Street, Suite 201, Saint Paul, MN 55107-2106

WEB SITE ADDRESS: www.greatrivergreening.org

FUND: Environment and Natural Resources Trust Fund (TF)

LEGAL CITATION: ML 2001, 1st Special Session, Ch. 2, Sec. 14, Subd. 4(i)

FINAL REPORT

4i

APPROPRIATION AMOUNT: \$910,000

Overall Project Outcome and Results

Led by Great River Greening, the Big Rivers Partnership is one of the first important restoration collaborations in the state, bringing together nonprofit, government and private landowners to restore river valley habitat in the Twin Cities. Guided by ecological and resource criteria, projects were located within the important and beautiful Mississippi River Gorge running through Minneapolis and Saint Paul; the Pine Bend Bluff Natural Area, a regionally significant ecological resource on the urban Mississippi; the Minnesota River Valley, a critical and unmatched urban corridor of wetland and associated upland habitat; and numerous native plant community remnants. Projects consisted of plant and animal surveys and restoration activities that regularly engaged volunteers. More than 3,600 volunteers participated in habitat projects, triple the goal. The partnership also leveraged over \$1.3 million in non-state funds, almost double the goal, and implemented restoration on over 1,500 acres, 150% of the goal.

Project Results Use and Dissemination

Great River Greening lists projects and surveys on its website, promoting them to partners, cooperators, and landowners. Where possible, we work with cooperators to continue stewardship beyond state funding with volunteers or other community members. The Partnership also completed an ecological ranking of sites within the river valleys to complement the regionally significant areas identified by the Minnesota Department of Natural Resources and disseminated the ranking information through various conservation forums. The success of the project proves that multiple organizations can work together to achieve conservation goals.

Date of Report: July 13, 2004
Title: LCMR Final Work Program Report

Date of Next Status Report:
Date Work Program Approved: December 3, 2001
Project Completion Date: June 30, 2004
#CH34

I. PROJECT TITLE: Big Rivers Partnership: Helping Communities to Restore Habitat

Project Manager: Deborah Karasov
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Telephone Number: 651-665-9500 **e-mail:** dkarasov@greatrivergreening.org **Fax:** 651-665-9409

Web Address: www.greatrivergreening.org

Total Biennial Project Budget:
\$910,000 LCMR Appropriation - \$ 909,140 Amount Spent = \$ 860 Balance

Legal Citation: ML 2001, 1st Special Session, Ch. 2, Sec. 14, Subd. 4(i)

Appropriation Language: (i) Big Rivers Partnership: Helping Communities to Restore Habitat \$455,000 the first year and \$455,000 the second year are from the trust fund to the commissioner of natural resources for an agreement with Great River Greening to implement private and public habitat projects on cost-share basis in the Mississippi and Minnesota river valleys. 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.

Status of Cost-Share Requirement: Cost-share of \$691,771 will be provided for this project. Cost-share is defined as an expense that is directly related to the approved activities of the project (Big Rivers Partnership - BRP), that is not paid for with state funds, and is not an expense that is ineligible for LCMR reimbursement. Cost-share may be incurred by the project's recipient (GRG), partners (see Section VI-C), or landowners. Cost-share may include volunteer work, which would be valued using a rate of \$11.00/hr.

Documentation of cost-share is the following:

- Brief itemized description of the costs incurred (or the in-kind services provided) and their value
- Statement that certifies that the cost-share expenses reported are directly related to the approved activities of the Big Rivers Partnership.
- Statement that certifies that these expenses are NOT paid for with state funds.
- Signature by private individual landowner, or person authorized to represent the organization.

II. and III. FINAL PROJECT SUMMARY:

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IV. OUTLINE OF PROJECT RESULTS:

- **Result 1.** **LCMR Budget:** \$ 700,508 **Cost-Share Requirement:** \$691,771
 Balance: \$ 774 **Cost-Share Spent:** \$ 1,339,100

Implement habitat projects on 1000 acres with community volunteers

This project will build on the already burgeoning partnership for community restoration in the river corridors, spearheaded by Great River Greening. The partnership will implement habitat projects evaluated through GRG's ecological inventory and analysis, using GRG's successful collaborative process of soliciting landowners, recruiting and training volunteers and volunteer supervisors, training property owners, and providing restoration and management plans. Habitat projects will include activities such as plantings of native trees, shrubs, grasses and wildflowers, removal of exotic species and prescribed burning. Project sites that we intend to implement beginning in the spring of 2002 are Koch Refinery's Pine Bend Bluff property in Dakota County, the Minneapolis Longfellow River Gorge, and Belle Plaine Prairie. A nomination process to be completed early in 2002 will identify additional projects for 2002 and 2003.

Great River Greening has distinguished itself by the success and quality of its volunteer restorations and plantings largely because of its volunteer training program. Specialized training provides volunteer supervisors with opportunities to learn many skills, including native plant identification, principles of ecological restoration, and how to organize workers in carrying out activities for habitat restoration projects. Other volunteer field workers learn about ecological restoration by participating in habitat restoration activities. This project will recruit and train 1000 field workers and 75 supervisors, and will strengthen this training by focusing on two key areas: working with diverse groups of volunteers, and teaching principles and methods for restoring native plant

communities. This project will also strengthen our collaborations with community partners and landowners to develop restoration and adaptive management plans.

Budget:	Budgeted	Current	Balance
Personnel	\$ 390,756	390,489	267
Contractual Fees	139,442	139,060	382
Supplies/Equipment	160,748	160,623	125
Operations	5,737	5,737	0
Other	3,825	3,825	0
Result 1 - LCMR Subtotal	\$ 700,508	699,734	774

See attached worksheet for detail of expenses.

Completion Date:

- a) Implement habitat projects on 1000 acres
 - 1) 500 acres; December 31, 2002
 - 2) 500 acres; June 30, 2004
- b) Recruit and train 1000 volunteer field workers
 - 1) 500 volunteers; Dec. 31, 2002
 - 2) 500 volunteers; June 30, 2004
- c) Recruit and train 75 volunteer supervisors
 - 1) 45 supervisors; Dec. 31, 2002
 - 2) 30 supervisors; June 30, 2004

Result 1 Status:

June 30, 2004 Final Report: The Partnership completed all of its quantitative goals in this result. We implemented restoration on more than 1,500 acres. More than 3,600 volunteers participated in habitat projects, including over 300 volunteer supervisors. The partnership also leveraged over \$1.3 million in non-state funds.

Geographically, our work stretched from Belle Plaine and the west end of the Minnesota Valley National Wildlife Refuge to the Mississippi River Gorge in Minneapolis to Pine Bend Bluffs near Hastings. Site selection considerations encompassed both ecological and social factors. Ecological factors included the physical characteristics of site, the condition of the surrounding landscape, the plant community goal, and long-term maintenance and monitoring needs. Social considerations included screening/visibility, aesthetic needs, environmental needs, and sufficient management resources. Project sites included: East Mississippi Bluff-Desnoyer unit, Pine Bend Bluffs in Dakota County, Hastings Riverfront, Mississippi River Gorge-South Park in Minneapolis, West Side Bluff-Cherokee Park in Saint Paul, Minnesota Valley National Wildlife Refuge, River Park-Brooklyn Park, South Saint Paul Levee, and Prospect Crest in Saint Paul, to name a few.

The involvement of thousands of volunteers in our habitat projects helps to ensure that restoration will continue to occur far beyond the end of the BRP program funding period. For example, the Belle Plaine Elementary School Prairie is an integral part of the school. Our recent volunteer planting event at River Park, Brooklyn Park drew a tremendous response from the community, tapping into their volunteer spirit and providing educational opportunities for the volunteers, as well as direct habitat improvement on the Mississippi River bank.

As noted above, the Partnership leveraged over \$1.3 million in non-state funds. These dollars demonstrate the commitment from the community for such important work. Large contributors of cost-share included the Mississippi National River and Recreation Area (MNRRA), the National Fish and Wildlife Foundation (NFWF), and the City of Saint Paul.

- **Result 2. LCMR Budget: \$ 128,762**
Balance: \$ 56

Prioritize sites for ecological restoration and management

In partnership with the Minnesota Department of Natural Resources (DNR), National Park Service (NPS), and others, Great River Greening (GRG) will evaluate ecological inventory data of portions of the urban/suburban stretches of the Mississippi and Minnesota River valleys and habitat connections not covered by the Minnesota County Biological Survey (MCBS). MCBS looks only at the highest quality natural areas, not at those areas that could or should be restored. Using this GIS-based, landscape-scale ecological inventory data and social and economic criteria (e.g. landowner participation, BRP partner involvement, local community planning and interest), high-priority restoration project areas will be identified and mapped. Potential users of this mapped information will be municipal parks programs, DNR, NPS – Mississippi National River and Recreation Area, Trust for Public Lands, Friends of the Mississippi River, Friends of the Minnesota Valley and others.

In addition, we will conduct detailed site surveys at high-priority sites to collect information necessary to guide ecological restoration. These surveys will characterize infestations of exotic species, abundance of native species, social uses of sites, and other important factors.

Budget:	Budgeted	Current	Balance
Personnel	\$ 117,839	117,839	0
Contractual Fees	5,000	4,980	20
Supplies/Equipment	3,911	3,875	36
Operations	2,012	2,012	0
Other	0	0	0
Result 2 - LCMR Subtotal	128,762	128,706	56

See attached worksheet for detail of expenses.

Completion Date:

- a) Combine ecological inventory data with social and economic criteria to establish a prioritized map of restoration project areas
 - 1) Identify and map high-priority restoration project areas along the Mississippi and Minnesota River corridors; December 31, 2002 (mailed under separate cover 12/31/03)
- b) Conduct at least 4 detailed site surveys
 - 1) Conduct 2 surveys; December 31, 2002 (mailed under separate cover 12/31/03)
 - 2) Conduct 2 surveys; June 30, 2004 (attached)

Result 2 Status:

June 30, 2004 Final Report:

Great River Greening completed a land cover inventory using the Minnesota Land Cover Classification System for the portion of the Mississippi National River and Recreation Area (MNRRA) upstream of the Lower Saint Anthony Lock and Dam. In addition, Greening developed an ecological ranking protocol for MNRRA. The National Park Service, in conjunction with Greening, produced a CD-ROM which contains information on the ecological value of undeveloped land within MNRRA. The information provided on the CD, when used in combination with other regional or local data, can help identify open space protection opportunities (OSPO) within the river corridor.

Greening, in conjunction with the City of Saint Paul, also completed an ecological inventory (included in the larger restoration management plan) at Cherokee Park Prairie in Saint Paul. The plan makes recommendations, based upon the inventory, for the ongoing management of the vegetation to meet ecological goals and social needs. Recommendations include plantings of native plant species, actions to reduce/re-direct trails and prevent erosion, and the removal and control of invasive plant species that are degrading the ecological health of the bluff.

Great River Greening ecologists conducted surveys for four Mississippi River islands owned by the National Park Service in the BRP prioritized areas. Following an initial assessment by a Department of Natural Resources ecologist, Greening focused on these islands due to the immediate threat to their ecological quality from the invasion of exotic species, severe erosion, and/or human use. Two islands were located adjacent to Inver Grove Heights and two were adjacent to Anoka. For each island, Greening completed species lists and documented concentrations of invasive species, hydrologic conditions, soils, and structural conditions.

Greening ecologists also conducted a survey of plant communities in 68 acres of Cherokee Park (aka West Side Bluff Sector 1) that will guide restoration and management activities in the area adjacent to the oak forest and prairie remnant. This will further assist in the restoration, management and protection of these critical bluffland remnants.

In conjunction with Saint Paul Parks and Recreation, Great River Greening conducted a site survey of current trail conditions at the Bluff Trail at Crosby Park and created a design plan to guide improvements. The plan will help the City of Saint Paul manage the problematic Bluff Trail and will also act as a model for similar projects in the Twin Cities area.

- **Result 3. LCMR Budget: \$ 80,730**
Balance: \$ 29

Create a landowner stewardship support program.

Stewardship support and information sharing are critical to the efficiency and effectiveness of restoration. Technical information, on-going encouragement, and key stewardship services are essential to sustain current and future restoration efforts. Through a GRG River Steward Program, we will interpret and distribute relevant information through an information network (e.g. GRG website) to participating landowners, project cooperators, and natural resource managers. The River Steward Program will also provide additional services to selected participating landowners, including monitoring the condition of project sites and recommendations for volunteer stewardship activities.

Budget:	Budgeted	Current	Balance
Personnel	\$ 72,573	72,573	0
Contractual Fees	6,000	5,971	29
Supplies/Equipment	1,021	1,021	0
Operations	1,136	1,136	0
Other	0	0	0
Result 3 - LCMR Subtotal	\$ 80,730	80,701	29

See attached worksheet for detail of expenses.

Completion Date:

a) Compile information for distribution and install on website.

- 1) Compile technical information and install on website; June 30, 2002
- 2) Update information and website; December 31, 2002
- 3) Update information and website; June 30, 2003
- 4) Update information and website; June 30, 2004

b) Select and monitor at least 4 sites, and provide recommendations for volunteer stewardship activities.

- 1) Complete for 2 sites; Dec. 31, 2002. (mailed under separate cover 12/31/03)
- 2) Complete for 2 sites; June 30, 2004 (attached)

Result 3 Status:

June 30, 2004 Final Report:

We have updated and added information to our website. We developed a new and updated interactive project map with all our projects categorized by type of work. We added three management plans to the resources page: Bloomington Bluffs, Eagle Creek and West Side Bluff Action Plan Phase I, as well as fact sheets on storm water management. We also added the East-Central Minnesota Species list and a news page with the past year's project news releases and monthly e-postcards to update our constituents on Greening activity. We also made sign-up for Greening volunteer events easier with on-line registration. Technical information on Greening's website is now comprehensive and we have established a process for updating and expanding it. We have already notified our partners and other interested organizations of the website resource.

In 2002, Greening ecologists completed recommendations for stewardship activities for two important sites. Belle Plaine prairie is one of eleven remaining small native prairie remnants identified by the Minnesota County Biological Survey's 1995 inventory of Scott County. Pine Bend Bluff Natural Area is a unique natural area in the metropolitan area because of its size and quality, and a large portion is owned by Flint Hills Resources (FHR). For both of these sites, specific volunteer activities were identified within a larger stewardship plan, and volunteer groups were identified (school and company employees, respectively). Tasks for volunteers included cutting invasive species, replanting with native species, periodic weeding, and girdling trees.

In 2003, Greening finished an inventory and survey, included within a larger management plan, for the remnant savanna and forest in Cherokee Park (aka West Side Bluff Sector 1). This document provides guidance on how to incorporate volunteers in future planting/restoration events with West Side Citizens Organization and Saint Paul Parks and Recreation.

Working with employee volunteers at Flint Hills Resources, a Greening ecologist outlined and recommended 2004 activities for monitoring exotic plant population numbers and flowering, prairie seed

ripening, and acorn mast ripening, collection and storage. All of the Greening ecologist's recommendations have been accepted and are an integral part of the on-going restoration.

V. TOTAL PROJECT BUDGET:

All Results: Personnel	\$581,168
All Results: Contractual Fees	150,442
All Results: Supplies/Equipment	165,680
All Results: Operations	8,885
All Results: Other	3,825
Total Project Budget	\$910,000

See attached worksheet for detail of expenses.

In order to meet the cash flow needs of GRG, LCMR will advance \$60,000 to GRG at the beginning of the Big Rivers Partnership contract with the State of Minnesota. This amount is the most that GRG estimates it will need in any given month to cover expenses that are eligible for reimbursement by the State (see attached sheet detailing GRG's estimate of cash flow needs). In order to mitigate the interest lost by the State through this advance, GRG will hold any unused portions of the advance in an interest-bearing account that is transferable on demand to their checking account, and will deduct any interest earned on the balance each month from their requests for reimbursement. As the contract comes to a close, GRG will perform reconciliation in order to use the \$60,000 to pay the final reimbursements of the \$910,000 contract.

Final Report Status: We are submitting the final bill for \$130,003.06, of which \$60,000 has been advanced to us, and we received \$5.43 in interest on the advance in the month of June, 2004. Therefore we are requesting a final payment of \$130,003.06, less \$60,000, less \$5.43, which comes to \$69,997.63.

VI. PAST, PRESENT, AND FUTURE SPENDING:

A. Past Spending

GRG will serve as project manager for the proposed collaboration, which builds on the past work and present organization of the GRG project and its many partnerships. The budget numbers below relate to LCMR funding of the GRG project since its inception. In particular, this project builds on the successful Big Rivers Partnership, funded by an \$800,000 appropriation from the LCMR last biennium and matched by at least \$374,000 through public and private sources. The LCMR appropriation also leveraged \$50,000 of funds from the National Park Service for inventory work. In addition to the work sponsored by LCMR, this partnership of eleven government and community collaborators has stimulated hundreds of thousands of dollars of future projects. (LCMR History: \$1.1 million RIM Critical Habitat Match & LCMR appropriation; Non-LCMR History: \$2.2 million foundation, corporate, and private contributions.)

B. Current and Future Spending

In terms of future spending, this project will result in a database of prioritized future projects for restoration and management, which could not be included in the project period. The private landowners will provide matching resources. As well, the National Park service, which is one of our partners, awards approximately \$150,000 in planning grants to communities within the Mississippi Natural Resources and Recreational Area corridor; communities may leverage these funds with GRG resources. The National Park service also works with the MN DNR to award nearly half a million dollars in land use planning funds for the Mississippi Critical Areas Program; once communities complete planning they will be in a position to implement perhaps with GRG's assistance.

This proposal is also a complementary effort to the nearly \$6 million of proposed money for the Metro Greenways program. While that program focuses on planning, acquisition, and land protection, this project will stimulate on-the-ground stewardship expertise and work. For example, while the Greenways program may provide grants to local communities to complete resource inventories, this project may assist communities in implementing habitat improvements.

C. Project Partners

Great River Greening

MN Department of Natural Resources, Metro Region (in-kind contribution of ecological services; also technical support and housing for GIS ecological inventory)

Nelson French, Lori Nelson, Holly Buchanan, Kevin Bigalke, Friends of the Minnesota Valley

Whitney Clark, Tom Lewanski, Friends of the Mississippi River

Arne Stefferud, Metropolitan Council (in-kind contribution to coordinate implementing agencies)

Kate Hanson, Nancy Duncan, National Park Service (in-kind contribution of technical support for GIS)

Judy Barr, Rebecca Stenberg, City of Saint Paul (recipient of restoration services)

Cordelia Pierson, Trust for Public Land (in-kind contribution of landowner outreach)

Greg Mack, John Moriarty, Ramsey County Parks and Recreation (in-kind contribution of ecological services; also recipient of restoration services)

Rick Schultz, U. S. Fish and Wildlife Service (in-kind contribution for partnership development and planning; also recipient of restoration services)

Private landowners

D. Time

Restoration and planning require a minimum of two entire field seasons. We will begin the project January 1, 2002 and end it June 30, 2004.

VII. DISSEMINATION:

Volunteer events and supervisor training sessions are announced and reported on through the GRG newsletter and website. The map of the project area with high-priority project areas identified will be provided to the members of the Big Rivers Partnership. The Great River Greening website will be the primary tool for dissemination of landowner stewardship support and other information resulting from this grant.

VIII. LOCATION:

The Mississippi-Minnesota river corridors and habitat connections in the seven-county metropolitan region.

IX. REPORTING REQUIREMENTS:

Periodic work program reports will be submitted not later than June 30 and December 31, 2002, and June 30 and December 31, 2003. A final work program report and associated products will be submitted by June 30, 2004, or by the completion date as set in the appropriation.

Great River Greening
Big Rivers Partnership
LCMR Costshare Summary - 2002

EVENT	DATE (if event)	VOLUNTEERS	SUPERVISORS	ACRES	COST-SHARE	COMMENTS
PRING-SUMMER 2002						
Spr 02 Invasive Species Training	3/30/2002		28		\$ 924.00	GRG vol time @ \$11/hr
Spr 02 Basic Training	4/20/2002		35		\$ 1,155.00	GRG vol time @ \$11/hr
East Mississippi Bluff-Desnoyer unit	5/4/2002	30	6	20	\$ 3,806.00	City of St. Paul
					\$ 1,254.00	GRG vol time @ \$11/hr
Westside Blufflands-Smith Avenue	5/11/2002	125	21	8	\$ 40,805.00	City of St. Paul
					\$ 5,049.00	GRG vol time @ \$11/hr
Native Shrub Identif. Training	6/5/2002		32		\$ 1,056.00	GRG vol time @ \$11/hr
Barge Terminal No. 1, phase 1	6/8/2002	35	3	1	\$ 8,140.00	Wildlife Habitat Council cash
					\$ 1,287.00	GRG vol time @ \$11/hr
Carpenter Nature Center (FMR)		108		40	\$ 7,224.00	FMR
Pine Bend Bluffs (FMR)		15		54	\$ 50,000.00	FHR
					\$ 418.00	FHR volunteers
Hastings Riverfront plan (FMR)					\$ 7,300.00	FMR
SUBTOTAL Spring-Summer 2002		313	125	123	\$ 128,418.00	
FALL 2002						
Harriet Island entrance planting	10/10/2002	134	5	5	\$ 4,686.00	GRG vol time @ \$11/hr
Training for public parks	8/20/2002				\$ 528.00	GRG vol time @ \$11/hr
Mississippi River Gorge--South Park	9/21/2002	150	15	12	\$ 2,883.00	LCC
					\$ 5,610.00	GRG vol time @ \$11/hr
Mississippi River Gorge--other					\$ 5,170.00	MNRRA volunteers
					\$ 18,152.00	MNRRA inkind
					\$ 1,294.00	MNRRA tool purchases
Ford property crew buckthorn-cutting				20	\$ 89,466.00	Ford
Westside Blufflands-Cherokee Park		31	0	35	\$ 28,400.00	NFWF, federal
					\$ 6,868.00	WSCO inkind
					\$ 6,210.00	City of St. Paul inkind
Ordway Nature Area (FMR)	10/12/2002	68		7	\$ 17,074.00	Macalester inkind
					\$ 494.00	FMR
					\$ 2,244.00	FMR volunteers
Battle Creek north				35	\$ 45,000.00	MNRRA
Prospect Blvd.					\$ 4,709.00	City of St. Paul staff time
River Corrditor					\$ 2,000.00	survey staff/City of St. Paul
FMV 2002						
event totals:		1140		536	\$ 52,002.50	
non-state employee contributions:					\$ 24,979.02	
incurred expenses:					\$ 10,343.84	
mileage:					\$ 166.90	
FMV Projects:						
MN Valley Refuge--Louisville Swamp						
MN Valley Refuge--Long Meadow						
Belle Plaine						
Black Dog						
Visitor Center						
Pond Dakota Mission Park						
Minnegasco Dakota Station						
Fort Snelling						
SUBTOTAL Fall 2002		1523	20	650	\$ 328,280.26	
YEARLY 2002 TOTAL		1836	145	773	\$ 456,698.26	
REQUIRED, Result 1 2002		500	45	500	\$ 345,886.00	

Great River Greening
Big Rivers Partnership
LCMR Costshare Summary - 2003

EVENT	DATE(if event)	VOLUNTEER	SUPERVISOR	ACRES	COST-SHARE	COMMENTS
SPRING-SUMMER 2003						
Advanced Training	2/22/2003		19		\$ 627.00	GRG vol time @ \$11/hr
Advanced Training	4/12/2003		27		\$ 1,188.00	GRG vol time @ \$11/hr
Ford	4/26/2003	82		8.1	\$ 3,157.00	GRG vol time @ \$11/hr
					\$ 163,967.00	Ford
					\$ 7,954.59	Ford inkind
Minnesota National Wildlife Refuge:						
Louisville Oak Savanna Restoration	3/1/2003				\$3,653	USFWS Staff time
Ordway (FMR)	5/3/2003	62	4	1	\$ 12,670.00	Macalester inkind
					\$ 2,079.00	FMR vol time @ \$11/hr
Cherokee Prairie Implem	6/7/2003	10		13.3	\$ 330.00	GRG vol time @ \$11/hr
Mounds Park East Overlook	4/3/2003	55	6	0.125	\$ 6,433.00	City of St. Paul
					\$ 825.00	City vol time @ \$11/hr
					\$ 2,035.00	GRG vol time @ \$11/hr
Westside Blufflands-Cherokee Park	4/3/2003	33		35	\$ 1,408.00	GRG vol time @ \$11/hr
					\$ 17,000.00	NFWF 2003 Grant
Eagle Creek Invasive removal	5/17/2003	103	10	6	\$ 3,839.00	GRG vol time @ \$11/hr
Brooklyn Park River Park				12.8	\$46,000	MNRRA
35 West Water Street	6/10/2003			0.1	\$6,732	Mitigation
Crosby Exotic Removal					\$40,000	MNRRA
FMV 2003						
event totals:		448		314	\$ 15,697.00	
non-state employee contributions:					\$ 28,566.26	
incurred expenses:					\$ 2,363.34	
mileage:					\$ 83.96	
FMV Projects:						
Savage Fen						
Pond Dakota Mission Park						
Minnegasco Dakota Station						
Fort Snelling/Pike Island						
Long Meadow						
SUBTOTAL Spring-Summer 2003						
		793	66	390.425	\$ 366,608.15	
FALL 2003						
Pine Bend Bluffs (FMR) event	10/25/2003	100	10	7	\$ 50,000.00	FHR cash
					\$3,630	vol time @ \$11/hr
		8			\$88	FHR vol time @ \$11/hr
						FHR food, t-shirts, table tent & chair
					\$3,456	rental, biffs
South St. Paul Levee				11	\$7,000	City cash
					\$49,000	MNRRA cost share
Hastings Riverfront Park (FMR)				250	\$ 24,531.57	NAWCA
					\$ 1,168.00	Hastings city staff time
					\$ 1,800.00	Wetland plants
		35			\$ 990.00	vol time @ \$11/hr
3M (FMR)					\$ 9,460.00	3M cash (FMR)
Sand Coulee (FMR)				4.26	\$ 3,000.00	Landowner contrib.
		10			\$ 275.00	vol time @ \$11/hr
Minnesota National Wildlife Refuge	10/11/2003	71	6	30	\$ 2,673.00	GRG vol time @ \$11/hr
					\$ 2,000.00	plant material Refuge
					\$ 3,087.00	MN Refuge staff time
Land O' Lakes	9/26/2003	50	5	1	\$ 167,000.00	DCSWCD
					\$ 1,870.00	GRG vol time @ \$11/hr
Battle Creek	9/2/2003	165	2	19	\$ 5,533.00	cash and inkind
Rexam	8/19/2003	10		0.5	\$14,250	Mitigation/Cash
					\$330	GRG vol time @ \$11/hr
Training St Paul Parks & Rec	9/9/2003	20			\$660	GRG vol time @ \$11/hr
Advanced Training	11/1/2003		16		\$704	GRG vol time @ \$11/hr
Saint Paul Park & Rec. Projects:						
Cherokee					\$5,038	Staff time
Crosby					\$948	Staff time
Desnoyer					\$1,566	Staff time
Mounds					\$1,385	Staff time
Prospect Crest					\$1,484	Staff time
Lilydale Wetland					\$210	Staff time
SUBTOTAL Fall 2003						
		469	39	322.76	\$ 363,136.32	
YEARLY 2003 TOTAL						
		1262	105	713.185	\$ 729,744.47	
REQUIRED, Result 1 2003						
		500	30	500	\$ 345,886.00	

Great River Greening
Big Rivers Partnership
LCMR Costshare Summary - 2004

EVENT	DATE(if event)	VOLUNTEER	SUPERVISO	ACRES	COST-SHARE	COMMENTS
2004						
Crosby	2/21/2004				\$ 10,000	Carolyn Foundation
		46	3	4.5	\$ 1,650	GRG vol time @ \$11/hr
Advanced Training	4/3/2004		13		\$ 286	GRG vol time @ \$11/hr
Hastings River Flats	3/20/2004	87	8	11	\$ 3,223	GRG vol time @ \$11/hr
					\$ 1,459	FMR
Brooklyn Park River Park	5/1/2004	216	20	3	\$ 8,008	GRG vol time @ \$11/hr
					\$9,848	MNRRA staff time
					\$81,000	MNRRA
Prospect Crest	5/22/2004	70	5	0.25	\$ 2,530.00	GRG vol time @ \$11/hr
South St. Paul Levee	6/12/2004	126	18	0.25	\$ 4,950.00	GRG vol time @ \$11/hr
Flint Hills	5/1/2004			38	\$ 21,514	FHR
Dayton Install	5/1/2004			3.9	\$ 8,190	City of Dayton
SUBTOTAL, 2004		545	67	60.9	\$ 152,657	
YEARLY 2004 TOTAL		545	67	60.9	\$ 152,657	

Great River Greening
 Big Rivers Partnership
 LCMR Costshare Summary - Totals

EVENT	VOLUNTEERS	SUPERVISORS	ACRES	COST-SHARE
YEARLY 2002 TOTAL	1836	145	773	\$ 456,698.26
YEARLY 2003 TOTAL	1262	105	713.19	\$ 729,744.47
YEARLY 2004 TOTAL	545	67	60.9	\$ 152,657.41
Grand Total:	3,643	317	1,547	\$1,339,100.14
REQUIRED, Result 1 total	1,000	75	1,000	\$ 691,772.00

Fred Harris
Lead Ecologist
Great River Greening
24 February, 2004

Proposed Tasks for Flint Hills Volunteers in 2004

1. **Prairie forb seed broadcasting.** Very early May. 1 day (or split into 2 half days?) to hand broadcast prairie forb seed and work it into the ground with a hand pushed roller. Approximately 10 acre area in savanna restoration areas designated as SV-1b, SV-1c, SV-2. The purpose of this is to enhance the native species diversity in the savanna restoration area. Some site preparation with broadleaf herbicide will be done by GRG 2-3 weeks in advance.
2. **Weed control in native sand-gravel prairies.** Throughout the growing season in the native sand-gravel prairies. Mow sweet clover as it flowers; pull knapweed as it bolts and flowers. Repeat after 2 weeks. Remove all plant material from site. If there is time, pull garlic mustard at east end on ridge top.
3. **Collect and process acorns for fall event.** Mid to late August. Collect 200-300 bur oak acorns as they ripen and begin to fall from trees. Soak acorns in water for 24 hours. Store soaked acorns in burlap bags in refrigerators (GRG has some refrigerator space) until we plant them in the September 25 event. The timing of acorn collection is important: acorns have to be collected as soon as they fall due to competition from deer, turkeys and insects. Bur oaks generally ripen about August 20. In the September event, we will plant the acorns in the field where we have planted prairie grasses (SV-1a). In the following years we can thin out the trees to achieve the desired density for the savanna. This is the most ecologically appropriate way to restore savanna trees to the area as it utilizes the local genetic stock.
4. **Collect native prairie seed on sand-gravel prairies.** Late September – October. Collect native grass and forb seed and store in an unheated space over the winter. In early 2005, spread seed onto bare spots in sand-gravel prairie, such as in cheat grass control areas.

Exhibit A
 Flint Hills Resources Bluffland Restoration Project- 2004
 revised 3-19-2004

priority	1	5	2	4	3	
Work areas:	SGP-all	MP-1, SV-1a,	SV-1b, 1c, 2, 3, 4a, 4b	MP-1, SV-1a	SV-3	Total
Acres	7.26	12.135	19.287	24.022	6.6	69,304
Project Description:	SGP cheatgrass management. Continue cheat grass herb. & cutting in units set up in 2003, monitor cheat in 'I' that was burned in 2003, herb. in area of 'I' that was not burned in 2003, cut back brush 1-2 ft beyond where there are no grasses, stack brush off site.	Prescribed burn. Mow breaks, construct break through ravine in s. SV-1a to allow burn into shrubs.	Forb Enhancement and Establishment Mowing. Non-selective herbicide in late April, not including SV-3. FHR volunteers hand broadcast and rake forb seed into ground in early May. GRG to coordinate & monitor mowing contractor 2-4 times depending on weather & need. Stop mowing when natives are 4 6" tall or higher than weeds.	Fall Event (50 vols). FHR volunteers collect acorns in late August, soak for 24 hrs and refrigerate. During event, plant acorns in SV1a; broadcast and work in forb seed in SV1-a and MP-1.	Site Prep without restoration. GRG crew does 2 herbicide applications, plant oat cover crop (mowing covered in Forb Enhancement and Establishment Mowing column).	
Time Line:	Growing Season	Early October	April, May, June	October 23, 2004	Spring, Summer 2004	Total
Project management - FMR	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$5,000.00
FMR Ecologist*	\$2,000.00					\$2,000.00
Volunteer events staff & material:	\$0.00	\$0.00	\$0.00	\$6,325.00	\$0.00	\$6,325.00
Field work staff & material:	\$7,600.00	\$6,921.00	\$7,857.00	\$6,709.00	\$8,602.00	\$37,689.00
Subcontractors:	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00	\$5,000.00
Cost Total:	\$10,600.00	\$7,921.00	\$13,857.00	\$14,034.00	\$9,602.00	\$56,014.00
BRP-GRG Funding			\$3,000.00		\$3,000.00	\$6,000.00
FHR funding:	\$10,600.00	\$7,921.00	\$10,857.00	\$14,034.00	\$6,602.00	\$50,000.00
Total Funding:	\$10,600.00	\$7,921.00	\$13,857.00	\$14,034.00	\$9,602.00	\$56,014.00
GRG 2004 funding	\$7,600.00	\$6,921.00	\$9,857.00	\$13,034.00	\$5,602.00	\$43,014.00
FMR 2004 funding	\$2,986.00	\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00	\$6,986.00
(Note: Cost estimate for 50 person volunteer event assumes FHR will provide lunch/soda and materials such as tents, tables, chairs, blfs etc.)						
	*GRG field staff will conduct management activities as described in project description above, at the appropriate times in 2004. FMR's Ecologist, Karen Schik, will monitor the managed areas throughout the field season, record pertinent data, and make management recommendations for the 2005 field season.		\$2040.00 estimated for plant material	\$2500.00 estimated for plant material		