



# Environment and Natural Resources Trust Fund (ENRTF) M.L. 2014 Work Plan

**Date of Report:** January 15, 2014  
**Date of Next Status Update Report:** February 1, 2015  
**Date of Work Plan Approval:**  
**Project Completion Date:** June 30, 2017  
**Does this submission include an amendment request?** No

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**PROJECT TITLE: Upland and Shoreline Restoration in Greater Metropolitan Area**

**Project Manager:** Wiley Buck  
**Organization:** Great River Greening  
**Mailing Address:** 35 W. Water St.  
**City/State/Zip Code:** St. Paul, MN 55107  
**Telephone Number:** (651)-665-9500  
**Email Address:** wbuck@greatrivergreening.org  
**Web Address:** www.greatrivergreening.org

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**Location:** Carver Chisago Dakota Goodhue Isanti Ramsey Washington

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<b>Total ENRTF Project Budget:</b>	<b>ENRTF Appropriation:</b>	<b>\$300,000</b>
	<b>Amount Spent:</b>	<b>\$0</b>
	<b>Balance:</b>	<b>\$300,000</b>

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**Legal Citation:** M.L. 2014, Chp. 226, Sec. 2, Subd. 06f

**Appropriation Language:**

\$300,000 the second year is from the trust fund to the commissioner of natural resources for an agreement with Great River Greening to restore and enhance upland, shoreline, and approximately 150 acres of forests, woodlands, savanna, and prairie and to provide related educational opportunities for volunteers in the greater metropolitan area. A list of proposed restorations and enhancements must be provided as part of the required work plan. This appropriation is available until June 30, 2017, by which time the project must be completed and final products delivered.

**I. PROJECT TITLE: Upland and Shoreline Restoration in Greater Metropolitan Area**

**II. PROJECT STATEMENT:**

Much of the remaining natural habitat within the Greater Twin Cities metropolitan area is threatened by conversion, fragmentation, invasive species, development, altered hydrology, and climate change. Restoration and management of these habitats is needed to save Minnesota’s natural heritage for future generations, protect rare and declining species, protect our clean water, reconnect habitat corridors, and engage community volunteers in meaningful parts of the work, so they can better enjoy and understand the restoration/enhancement process, all to safeguard these natural treasures through time.

We have identified five (5) new sites for restoration/enhancement projects, and for two (2) of these sites management plans will be written for current and future phases of implementation. We have three (3) projects entering new phases, as well as implementation and evaluation of accelerated migration of oak ecotypes, and prescribed grazing/haying in the metro area.

During our volunteer events, volunteers will receive hands-on training and education on how to replicate the restoration/enhancement activities at home or other sites; the ecological importance of the task, the site including its location and connection to other natural areas; invasive species sanitation protocol; and a customized topic such as but not limited to plant identification, invertebrate management, live animals, or visualizing carbon. All training and education will be done in small groups of 20 or less to facilitate question and answer, and include hands-on training, large aerial maps, reference material, and evaluation by the volunteers.

By working with an array of local, state, federal, non-profit, and private partners, and landowners, Greening will restore/enhance 147 acres and 0.26 mile of shoreline; and engage at least 300 volunteers in meaningful parts of the work. We will also restore/enhance an additional 100 acres and 0.17 mile of shoreline with leveraged funds. These projects are exemplary of our continued engagement in the Anoka Sandplain, collar counties, metropolitan core, Wild & Scenic Rivers, and innovative restoration/enhancement techniques.

**III. PROJECT STATUS UPDATES:**

**Project Status as of February 1, 2015:**

**Project Status as of August 1, 2015:**

**Project Status as of February 1, 2016:**

**Project Status as of August 1, 2016:**

**Project Status as of February 1, 2017:**

**Overall Project Outcomes and Results:**

**IV. PROJECT ACTIVITIES AND OUTCOMES:**

**ACTIVITY 1:**

**Description: Restoration and Enhancement**

Restoration and enhancement activities will include planning, invasive species control, seeding/plugging, prescribed burning of oak woodlands, establishment of planted trees, grazing and haying of restored prairies and savannas with vegetation and invertebrate monitoring, and planting of local ecotype vs. southern and/or

'extreme climate' (e.g. northwestern MN) ecotype young oaks, with monitoring and evaluation of growth and survival.

**Summary Budget Information for Activity 1:**

**ENRTF Budget: \$ 300,000**  
**Amount Spent: \$ 0**  
**Balance: \$ 300,000**

**Activity Completion Date: June 30, 2017**

<b>Outcome</b>	<b>Completion Date</b>	<b>Budget</b>
1. Camp Tanadoona Management Plan Completed	January 1, 2016	\$ 10,000
2. Lilydale Bluffs Management Plan Completed	July 1, 2016	\$ 15,000
3. Accelerated Migration and Prescribed Grazing/Haying Implemented	July 1, 2015	\$ 15,000
4. Accelerated Migration and Prescribed Grazing/Haying Evaluated, Results Disseminated	June 30, 2017	\$ 26,000
5. Restoration/Enhancement at Eight (8) Sites, Results Disseminated	June 30, 2017	\$ 234,000

**Activity Status as of February 1, 2015:**

**Activity Status as of August 1, 2015:**

**Activity Status as of February 1, 2016:**

**Activity Status as of August 1, 2016:**

**Activity Status as of February 1, 2017:**

**Final Report Summary:**

**V. DISSEMINATION:**

**Description:**

Great River Greening will periodically distribute information about the program through our e-postcard, 'Volunteer Opportunities' mailings, donor mailings and communications (including newsletter and annual report), at volunteer restoration events, and through our website [www.greatrivergreening.org](http://www.greatrivergreening.org).

Volunteer event descriptions acknowledging Trust Fund contributions will be emailed to over 5,000 subscribers in advance of our spring and fall volunteer event seasons.

Restoration/enhancement results, as well as the monitoring results of the prescribed grazing/haying and accelerated migration activities will be reported on our web site and elsewhere. Analysis of the volunteer training and education activities will be written up and submitted, and shared with our volunteer group leaders. All results will be shared with colleagues including the Metro Conservation Corridors Partnership.

**Status as of as of February 1, 2015:**

**Status as of August 1, 2015:**

**Status as of February 1, 2016:**

**Status as of August 1, 2016:**

**Status as of February 1, 2017:**

**Final Report Summary:**

**VI. PROJECT BUDGET SUMMARY:**

**A. ENRTF Budget Overview:**

<b>Budget Category</b>	<b>\$ Amount</b>	<b>Explanation</b>
Personnel:	\$ 80,000	1 project manager/ecologist at 6.5% FTE for 3 years; 2 ecologists at 5% FTE each for 3 years; 1 director of conservation programs at 0.4% FTE for 3 years; 1 volunteer manager at 8% FTE for 3 years; 1 field coordinator at 9% FTE for 3 years; 3 restoration technicians at 7% FTE each for 3 years; 1 director of finance at 2% FTE for 3 years; 1 administrative assistant at 1% FTE for 3 years.
Professional/Technical/Service Contracts:	\$ 130,000	Restoration Service Providers; Vegetation and Invertebrate/Pollinator Monitoring Assistance. Providers TBD through competitive process.
Equipment/Tools/Supplies:	\$ 80,500	Seed, Plants, Herbicide, Hand Tools, Sanitation Protocol Equipment and Supplies
Capital Expenditures over \$5,000:	\$-0-	
Printing:	\$ 500	Trust Fund signs, reports, volunteer handouts, large maps, conference poster(s)
Travel Expenses in MN:	\$ 5,000	Truck, Personal Vehicle Mileage
Other:	\$ 4,000	Volunteer Event Expenses: Large tent/table/chair/portable toilet rentals; overnight security. Purchase of boot brushes and other invasive species sanitation protocol equipment; approved food and beverage; small pop-up tents; safety glasses, work gloves, hand tools.; Burn Permit Fees
<b>TOTAL ENRTF BUDGET:</b>	<b>\$ 300,000</b>	

**Explanation of Use of Classified Staff:** N/A

**Explanation of Capital Expenditures Greater Than \$5,000:** N/A

**Number of Full-time Equivalents (FTE) Directly Funded with this ENRTF Appropriation:** 1.86 FTE

**Number of Full-time Equivalents (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation:** 2.33 FTE

**B. Other Funds:**

<b>Source of Funds</b>	<b>\$ Amount Proposed</b>	<b>\$ Amount Spent</b>	<b>Use of Other Funds</b>
<b>Non-state</b>			
South Washington Watershed District	\$ 5,000	\$	Central Corridor Haying, Accelerated Migration. Secured.
Camp Fire Minnesota	\$ 45,000		Camp Tanadoona
City of Mahtomedi	\$ 30,000		Katherine Abbott II
Three River Park District	\$ 30,000		Carver Park
City of Lindstrom	\$ 10,000		Allemansratt Park

St. Paul Parks and Rec	\$ 1,000		Trout Brook II
Private Individuals/Trust	\$ 10,000		Wild and Scenic Rivers III
City of Chisago	\$ 12,000		Ojiketa Regional Park
City of Lilydale	\$ 30,000		Lilydale Bluffs
City of Mendota Heights	\$ 1,000		Pilot Knob Grazing
Foundations/Corporations	\$ 1,000		Volunteer Events
<b>State</b>			
Outdoor Heritage Fund	\$ 200,000	\$	Understory Restoration at Trout Brook; Additional Acres at Carver Park
<b>TOTAL OTHER FUNDS:</b>	<b>\$ 375,000</b>	<b>\$</b>	

**VII. PROJECT STRATEGY:**

**A. Project Partners:**

**B. Project Impact and Long-term Strategy:**

**C. Spending History:**

Funding Source	M.L. 2008 or FY09	M.L. 2009 or FY10	M.L. 2010 or FY11	M.L. 2011 or FY12-13	M.L. 2013 or FY14
ENRTF	\$111,000	\$155,000	\$-0-	\$400,000	\$208,000

**VIII. ACQUISITION/RESTORATION LIST:** See attached Acquisition/Restoration List

**IX. VISUAL ELEMENT or MAP(S):** See attached maps.

**X. ACQUISITION/RESTORATION REQUIREMENTS WORKSHEET:**

**XI. RESEARCH ADDENDUM:** N/A

**XII. REPORTING REQUIREMENTS:**

Periodic work plan status update reports will be submitted no later than February 15, 2015; August 15, 2015; February 15, 2016; August 15, 2016; February 15, 2017. A final report and associated products will be submitted between June 30 and August 15, 2017.

<b>Environment and Natural Resources Trust Fund</b>					
<b>M.L. 2014 Project Budget</b>					
<b>Project Title:</b> Upland and Shoreline Restoration in Greater Metropolitan Area					
<b>Legal Citation:</b> M.L. 2014, Chp. 226, Sec. 2, Subd. 06f					
<b>Project Manager:</b> Wiley Buck					
<b>Organization:</b> Great River Greening					
<b>M.L. 2014 ENRTF Appropriation:</b> \$300,000					
<b>Project Length and Completion Date:</b> 3 Years, June 30, 2017					
<b>Date of Report:</b> January 15, 2014					



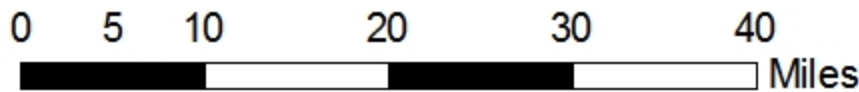
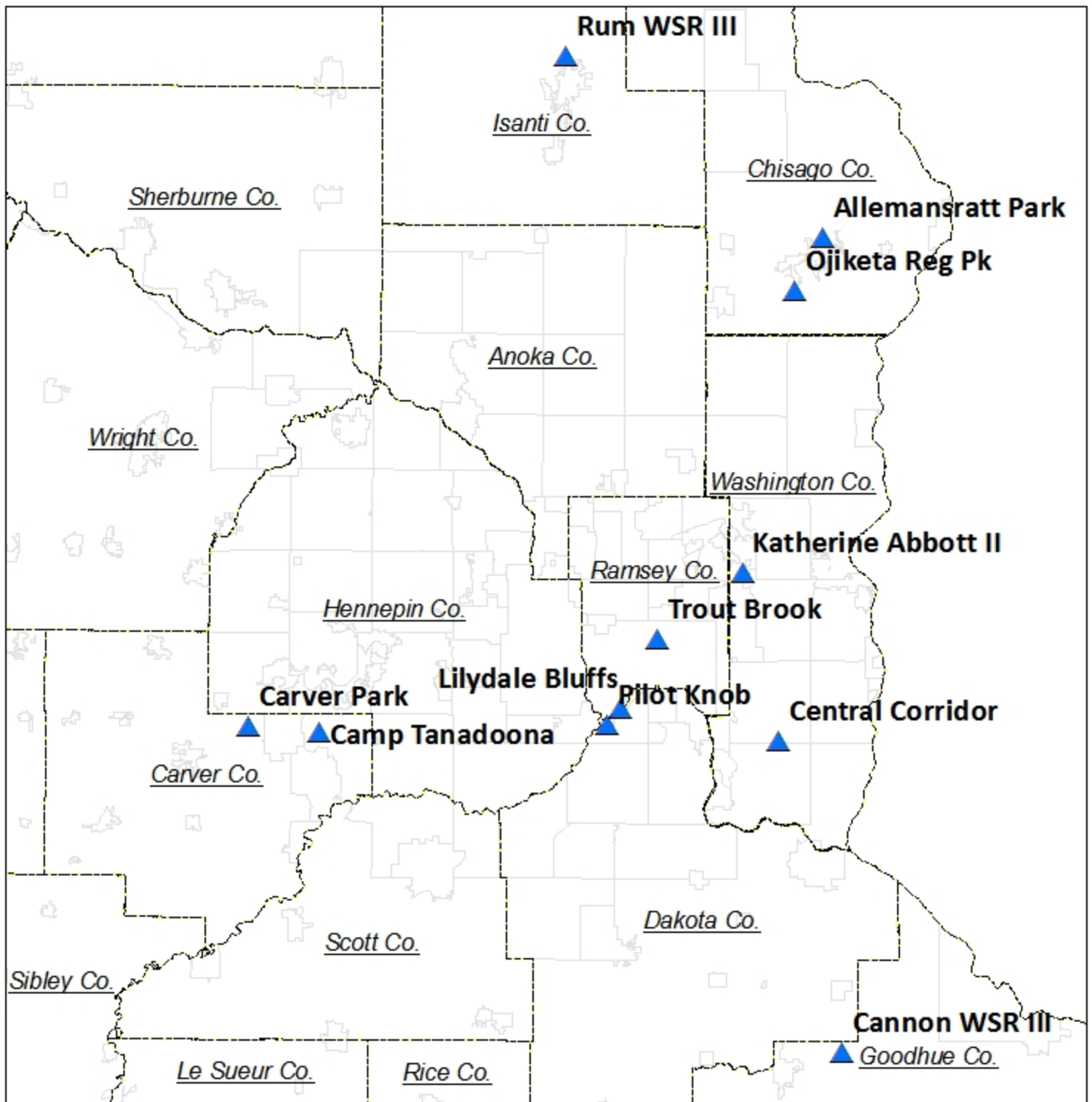
<b>ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET</b>	<b>Activity 1 Budget</b>	<b>Amount Spent</b>	<b>Activity 1 Balance</b>	<b>TOTAL BUDGET</b>	<b>TOTAL BALANCE</b>
<b>BUDGET ITEM</b>	<b>Restoration and Enhancement</b>				
<b>Personnel (Wages and Benefits)</b>	\$80,000	\$0	\$80,000	\$80,000	\$80,000
Project Manager / Ecologist: \$13,000 (78% salary, 22% benefit); 6.5% FTE for 3 years.					
2 Ecologists: \$20,000 (85% salary, 15% benefits); 5% FTE each for 3 years					
Director of Conservation Programs: \$1,000 (93% salary, 7% benefits); 0.4% FTE for 3 years.					
Volunteer Manager: \$10,000 (87% salary, 13% benefits); 8% FTE for 3 years.					
Field Coordinator: \$11,500 (86% salary, 14% benefits); 9% FTE for 3 years.					
3 Restoration Technicians: \$17,000 (93% salary, 7% benefits); 7% FTE each for 3 years					
Director of Finance: \$6,000 (81% salary, 19% benefits); 2% FTE for 3 years.					
Administrative Assistant: \$1,500 (86% salary, 14% benefits). 1% FTE for 3 years.					
<b>Professional/Technical/Service Contracts</b>					
Vegetation monitoring assistance for prescribed grazing/haying and accelerated migration, and invertebrate/pollinator monitoring assistance for prescribed grazing/haying. Providers TBD by competitive process.	\$20,000	\$0	\$20,000	\$20,000	\$20,000
Restoration/enhancement activities such as site preparation, seed installation, planting, watering. Providers TBD by competitive process.	\$30,000	\$0	\$30,000	\$30,000	\$30,000
Restoration/enhancement activities for shoreline such as erosion control, earthwork for shoreline restoration. Providers TBD by competitive process.	\$35,000	\$0	\$35,000	\$35,000	\$35,000
Restoration/enhancement activities such as invasive species control, mowing, prescribed burning. Providers TBD by competitive process.	\$30,000	\$0	\$30,000	\$30,000	\$30,000
Restoration/enhancement activities for prescribed grazing/haying such as haying, goat and horse fencing, livestock transport. Providers TBD by competitive process.	\$15,000	\$0	\$15,000	\$15,000	\$15,000
<b>Equipment/Tools/Supplies</b>					
Restoration tools and equipment: General use such as purchase/repair of power tools, sprayers, personal protective equipment; mower, ATV maintenance/repair; boot brushes and other invasive species sanitation protocol tools and equipment.	\$2,500	\$0	\$2,500	\$2,500	\$2,500
Restoration supplies for revegetation such as seeds, plants, mulch, herbivore protection including deer fencing.	\$50,000	\$0	\$50,000	\$50,000	\$50,000
Restoration supplies for site preparation and invasive species control such as herbicide	\$3,000	\$0	\$3,000	\$3,000	\$3,000
Restoration supplies for prescribed grazing / haying such as goat and horse fencing, fencing energizers, stock tanks	\$5,000	\$0	\$5,000	\$5,000	\$5,000
Restoration supplies specific to shoreline projects such as erosion control materials, anchors.	\$20,000	\$0	\$20,000	\$20,000	\$20,000
<b>Printing</b> Trust Fund signs, reports, volunteer handouts, large maps, posters.	\$500	\$0	\$500	\$500	\$500
<b>Travel expenses in Minnesota</b>	\$5,000	\$0	\$5,000	\$5,000	\$5,000
Mileage					
<b>Other</b>					
Volunteer Event Expenses: Large tent/table/chair/portable toilet rentals; overnight security. Purchase of: boot brushes and other invasive species sanitation protocol equipment; approved food and beverage; small pop-up tents; safety glasses, work gloves, hand tools.	\$3,800	\$0	\$3,800	\$3,800	\$3,800
Burn permit fees	\$200	\$0	\$200	\$200	\$200
<b>COLUMN TOTAL</b>	<b>\$300,000</b>	<b>\$0</b>	<b>\$300,000</b>	<b>\$300,000</b>	<b>\$300,000</b>

**Environment and Natural Resources Trust Fund  
M.L. 2014 Acquisition/Restoration List**

Project Title: Upland and Shoreline Restoration in Greater Metropolitan Area  
 Legal Citation: M.L. 2014, Chp. 226, Sec. 2, Subd. 6f  
 Project Manager: Wiley Buck  
 Organization: Great River Greening  
 M.L. 2014 ENRTF Appropriation: \$ 300,000  
 Project Length and Completion Date: 3 Years, June 30, 2017  
 Date of Report: January 15, 2014

#	Acquisition or Restoration Parcel Name	Geographic Coordinates Format: [Deg.]° [Min.]' [Sec.]" [Hemis.]		Estimated Cost	Estimated Annual PILT Liabilities	County	Ecological Significance	Activity Description	# of Acres	# of Shoreline Miles	Type of Landowner	Proposed Fee Title or Easement Holder (if applicable)	Status
		Latitude	Longitude										
1	Camp Tanadoona	44° 52' 20.28" N	-93° 35' 50.27" W	\$ 63,000	N/A	Hennepin	Large site, on Lake Minnewashta, adjacent to Lake Minnewashta Regional Park	Management plan; forest enhancement, shoreline restoration.	5	0.03	Non-profit organization	N/A	Engaged in Landowner Negotiations
2	Katherine Abbott Park Phase II	45° 2' 36.95" N	-92° 57' 50.03" W	\$ 53,000	N/A	Wash.	Site with mosaic of habitats	Wetland Enhancement	20		Public	N/A	Phase I Underway with 2013 Appropriation
3	Carver Park Reserve	44° 52' 37.57" N	-93° 42' 10.07" W	\$ 44,000	N/A	Carver	Site with mosaic of habitats	Oak Woodland Enhancement	19		Public	N/A	Engaged in Landowner Negotiations
4	Allemansratt Park	45° 24' 5.05" N	-92° 50' 28.68" W	\$ 13,000	N/A	Chisago	Site with mosaic of habitats	Forest Enhancement	8		Public	N/A	Engaged in Landowner Negotiations
5	Trout Brook Nature Preserve Phase II	44° 58' 20.28" N	-93° 5' 31.92" W	\$ 11,000	N/A	Ramsey Isanti	Ecological corridor to connect Trout Brook Greenway and Miss. River	Establishment of 2013 Tree Planting	6		Public	N/A	Phase I Site Prep Underway with Landowner Funds
6	Wild & Scenic Rivers III: Rum and Cannon	R)45° 35' 37.68" N C)44° 31' 49.44" N	R)-93° 13' 54.48" W C)-92° 48' 56.52" W	\$ 21,000	N/A	Goodhue	State Wild and Scenic Rivers with high density of rare features	Upland restoration and enhancement	5	0.05	Private Ind./Trust	N/A	Engaged in Landowner Negotiations
7	Lilydale Bluffs west of Lilydale Regional Park	44° 54' 37.44" N	-93° 7' 32.50" W	\$ 33,000	N/A	Dakota	Bluff habitat along Mississippi River	Management plan; steep bluff forest enhancement	1		Public	N/A	Engaged in Landowner Negotiations
8	Central Corridor: Accelerated Migration Technique Prescribed Grazing/Haying, at	44° 51' 45.72" N	-92° 54' 33.84" W	\$ 20,000	N/A	Washington	Innovative restoration technique with potentially wide application.	collect/evaluate data on survival/growth of southern &/or 'extreme climate' (e.g. northwestern MN) vs. local ecotype young oaks.	1		Public	N/A	Engaged in Landowner Negotiations
9	a)Central Corridor; and b)Pilot Knob Hill	a)44° 51' 45.72" N b) 44° 52' 49.45" N	a)-92° 54' 33.84" W b) -93° 9' 57.60" W	\$ 21,000	N/A	a) Wash. b) Dakota	Implement these state-of-the-art restoration techniques on natural areas in metro area which is currently underserved by these techniques.	Implement; collect/ evaluate data on vegetation and invertebrates/pollinators.	50		Public	N/A	Portions Underway with Landowner Funds
10	Ojiketa Regional Park	45° 20' 35.52" N	-92° 53' 4.55" W	\$ 21,000	N/A	Chisago	Maple basswood forest along Green lake	Green Lake shoreline restoration; enhancement of adjacent bluffland forest	33	0.18	Public	N/A	Engaged in Landowner Negotiations

**NOTES:** Trout Brook Nature Preserve fka Trillium Nature Preserve. Additional parcels for Wild and Scenic Rivers III may be developed in the future, including public parcels; parcels currently listed are protected under DNR Wild and Scenic River easements. Activities at Camp Tanadoona contingent upon landowner completing easement process, currently underway.



# Upland and Shoreline Habitat Restoration in Greater Metropolitan Area: Project Sites Overall