



Goodhue County Land Use Management

♦ 509 West Fifth Street ♦ P.O. Box 408 ♦ Red Wing ♦ Minnesota ♦ 55066 ♦ Telephone: 651/385-3104 ♦ Fax: 651/385-3106 ♦

FINAL REPORT

AUG 13 2001

1999 Project Abstract
For the Period Ending June 30, 2001

TITLE: Goodhue County Natural Resources Inventory and Management Plan

PROJECT MANAGER: William B. Root

ORGANIZATION: Goodhue County Land Use Management

ADDRESS: P. O. Box 408
Red Wing, Minnesota 55066

WEB SITE ADDRESS: www.goodhue.mn.us

FUND: Minnesota Environment and Natural Resources Trust Fund

LEGAL CITATION: ML 1999, Chap. 231, Sec. 16, Subd. 10 (a).

APPROPRIATION AMOUNT: \$75,000.00

Overall Project Outcome and Results

The Goodhue County Natural Resources Inventory is a tool to be used for resource management by County, City and Township officials, developers, environmental groups and landowners. The information available in the report will be a vital planning tool for all future development in Goodhue County.

Approximately 95,000 acres were field inventoried or ground truthed by the consulting firm of Bonestroo, Rosene, Anderlik and Associates. The information gathered during the field work was documented, evaluated and noted on a GIS mapping program that will allow the information to be distributed electronically. The information is presented in narrative descriptions of the natural communities and classified using the Minnesota Department of Natural Resource's Natural Heritage Program methodology. The natural communities were given an ecological ranking from A to D; A being of high ecological quality and D being the lowest. These communities were grouped into geographic units of major watershed boundaries within the County and evaluated for Rare Feature Values, Natural Community Integrity Values and Wildlife Habitat Values.

A working/steering committee, comprised of County, City and Township officials as well as citizens interested in participating, is assembled to lead discussion on the uses and limitations of the Natural Resources Inventory. The committee will help County staff develop specific management recommendations for each geographic unit.

All of the information gathered, including the narrative, database and maps, are maintained and updated electronically to ensure current information is available to anyone desiring such knowledge.

The Goodhue County Natural Resources Inventory is an important tool in the future decision making process and educational needs of the citizens of Goodhue County.

PROJECT JAMES

Project Results Use and Dissemination:

The Goodhue County Natural Resources Inventory will be available to the public either electronically or in hard copy. The intention of the entire project was to present current natural resource information and allow for the information to be updated and available in the future.

Presentations are to be made at County Board Meetings, Planning Commission Meetings, Township Board Meetings, City Board Meetings and any other informational meetings requested by any group.



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Date of Report: July 1, 2001

LCMR Final Work Program Report

Date of Work Program Approval:

Project Completion Date: June 30, 2001

LCMR Work Program 2001

I. PROJECT TITLE

Goodhue County Natural Resources Inventory and Management Plan

Project Manager: William B. Root
Affiliation: Goodhue County Land Use Management
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Red Wing, Minnesota 55066
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Total Biennial Project Budget

\$ LCMR	\$75,000.00	\$ MATCH	\$50,000.00
LCMR Amount Spent	\$75,000.00	Match Amount Spent	\$54,000.00
LCMR Balance	\$0.00	Match Balance	\$0.00

A. Legal Citation

ML 1999, Chap. 231, Sec. 16, Subd. 10 (a).

Appropriation Language

Goodhue County Natural Resources Inventory and Management Plan: \$75,000 is from the future resources fund to the Board of Water and Soil Resources for an agreement with Goodhue County to inventory, evaluate, and describe natural resources and create a geographic information system-based map and database. The appropriation must be matched by at least \$50,000 of nonstate money.

B. Status of Match Requirement

To date, the following commitments have been received toward the implementation of this project:

Goodhue County	\$42,000.00 cash
City of Red Wing	\$6,000.00 cash
Red Wing Shoe	\$2,000.00 cash
Total Cash Match	\$50,000.00 cash
Goodhue County	\$19,000.00 in-kind
City of Red Wing	\$6,000 in-kind
Total In-Kind	\$25,000.00 in-kind

II. and III. Final Project Summary

The Goodhue County Natural Resources Inventory is a tool to be used for resource management by County, City and Township officials, developers, environmental groups and landowners. The information available in the report will be a vital planning tool for all future development in Goodhue County.

Approximately 95,000 acres were field inventoried or ground truthed by the consulting firm of Bonestroo, Rosene, Anderlik and Associates. The information gathered during the field work was documented, evaluated and noted on a GIS mapping program that will allow the information to be distributed electronically. The information is presented in narrative descriptions of the natural communities and classified using the Minnesota Department of Natural Resource's Natural Heritage Program methodology. The natural communities were given an ecological ranking from A to D; A being of high ecological quality and D being the lowest. These communities were grouped into geographic units of major watershed boundaries within the County and evaluated for Rare Feature Values, Natural Community Integrity Values and Wildlife Habitat Values.

A working/steering committee, comprised of County, City and Township officials as well as citizens interested in participating, is assembled to lead discussion on the uses and limitations of the Natural Resources Inventory. The committee will help County staff develop specific management recommendations for each geographic unit.

All of the information gathered, including the narrative, database and maps, are maintained and updated electronically to ensure current information is available to anyone desiring such knowledge.

The Goodhue County Natural Resources Inventory is an important tool in the future decision making process and educational needs of the citizens of Goodhue County.

IV. OUTLINE OF PROJECT RESULTS

Result 1:

*A Project Initiation Meeting will take place to discuss and clarify project goals, objectives and the schedule. Because work will be completed in stages — on a priority basis and within key areas of Goodhue County — it will be necessary to further define the geographic scope of these priority areas.

Likewise, finite financial resources will likely require that some key landforms and/or natural community types be targeted for field visitation, while others may simply be interpreted from aerial photos with ground-truthing for verification. We also propose that unless there are compelling reasons to revisit MN DNR County Biological Survey sites, such as relocation of rare species or landforms, that their findings be considered accurate and directly incorporated into the GIS data sets that the County Land Use Management Department will be creating as part of this project.

Public/Agency Participation

The involvement of County Staff, City Staff, local citizens, developers, environmental groups and natural resource agency staff is critical to making sound natural resource policy decisions. An advisory group will be formed and the results of the inventory will be presented to them for discussion. This advisory group could serve to recommend goals, policies and implementation strategies to be carried out within designated growth centers based on the field collected data and additional information provided by the Land Use Management Department.

*Present project overview to Project Partners, Township boards, city councils and other interested parties with two informational meetings throughout the County. These meetings will be used to prioritize work and establish a regular effort to inform partners and keep the project on track. Bonestroo Staff will participate in two informational (public) meetings throughout Goodhue County during this phase of the project. It has been estimated that there are approximately 97,000 acres of land within Goodhue County that can be considered natural communities (forest, wetland, and prairie). During this portion of the project, aerial photo interpretation will be used to delineate natural communities and create mylar photo overlays for non-MCBS/USFWS natural areas greater than 10 acres in size for all of Goodhue County. These mylar overlays will then be used during the field inventory/ground-truthing portion of the project. As field work and data entry is completed, these mylar overlays will be digitized.

*All natural areas will be evaluated for the presence of natural communities. Field survey locations will be determined and drawn on maps and photos. Landowner approval for access to their property to be arranged by mailings and telephone calls. During the field inventory portion of the project, we will use methodologies employed by the DNR Natural Heritage Program County Biological Survey to determine natural community type and quality. Aerial photo interpretation of approximately 97,000-acres

and field inventory of 64,000-acres of forest, wetland, and prairie natural communities. Existing data, aerial photos, infrared photos, and available maps will be collected from the DNR, SWCD, Extension Office, and other available sources. All existing pertinent natural resource information will be gathered and organized to enable effective use of resources and targeting of areas for field visitation. In addition, the most recent infrared stereoscopic aerial photography will be obtained for the project area. Infrared photos will be used to map vegetative cover types. The following information will be collected, where available:

- ❖ DNR Natural Heritage data bases and maps on rare features, including natural communities and endangered plants and animals
- ❖ DNR Phase II Forest Inventory data bases and maps on forest cover types for land within Richard J. Dorer Memorial Hardwood Forest
- ❖ National Wetlands Inventory
- ❖ DNR Protected Waters and Wetlands Inventory
- ❖ DNR Fisheries Surveys for lakes and streams within the project area
- ❖ Goodhue County Soil Survey
- ❖ Surficial geology data from the MN Geological Survey
- ❖ Other applicable surveys and studies

Within forest and woodland natural communities, composition of dominant tree, shrub and groundcover species will be determined. For prairies, wetlands and savannas, dominant grasses and forbs and woody species will be determined. Particular emphasis will be placed on identifying plant species that indicate the quality of the natural community. Examples of indicator species would include invasive/exotic species, those considered "conservative" for the community type, or rare and endangered species found only on good quality sites. For each natural community field surveyed, notes and observations on wildlife habitat and sightings will be recorded for inclusion in the overall natural resources evaluation.

Additional field notes will be gathered on related natural resource management concerns such as erosion/ sedimentation, land use concerns, stormwater runoff and agricultural practices. Where appropriate and authorized by County/City Staffs, these observations will be included in the natural resources evaluation.

If resources allow, the amount of land that is thoroughly field inventoried would be increased.

Progress Summary: *As a result of data collection of aerial photographs, infrared photographs, and existing data, all of the natural areas were evaluated for the presence of natural communities and field survey locations were determined by the consultant. The field locations were drawn on maps and cross referenced with parcel data for landowners willing to participate with the project. The participating landowners were determined by the response given to an informational letter mailed to them about the project and request for permission to enter their land. Field survey work was completed for the sites determined by the consultant.*

Participants for a steering committee were organized by an intern working on the project. These possible steering committee members were contacted by phone and then, if interested, were mailed an informational packet about the commitment and project.

Timeline: December 1999 - November 2000

LCMR Budget:	\$57,500.00	Match:	\$31,000.00	In-Kind:	\$6,000.00
Balance:	\$0.00	Match Balance:	\$0.00		

Result 2:

*Classification and qualitative assessment of field surveyed natural communities using Minnesota DNR's Natural Heritage Program methodology.

Classification of Natural Communities

Minnesota's Native Vegetation, A Key to Natural Communities (Minnesota Department of Natural Resources, 1993) will be used to classify natural communities. This key is the best available statewide guide to the classification of native plant communities. For "human created areas," common descriptive names such as "old field" or "conifer plantation" will be used. Where natural communities have been surveyed by the DNR, we will use their natural community classification.

Ecological Ranking of Natural Communities

Each natural community will be assigned an ecological ranking, ranging from A to D. An "A" community is the highest in ecological quality; "D" the lowest. Standard ecological criteria used to evaluate the health of natural communities will be used to determine the quality rankings. These criteria include degree of native species diversity, age of trees, and amount of disturbance, such as invasion by non-native plant species. The rankings reflect how closely the community area being studied resembles an intact or "pristine" community of its type in the local area — "A" quality communities are most like intact natural areas; "D" quality communities have been highly altered from this standard. Due to the high level of human activity in urbanizing landscapes, "A" quality communities are rare.

Evaluation of Natural Resource Values

We will group communities into geographic units with guidance from County and City Staffs and input from the public. An example of a geographic unit might be a ravine or bluffline. Each geographic unit will be evaluated for Rare Feature Values, Natural Community Integrity Values and Wildlife Habitat Values. The suggested criteria to evaluate natural resource values are shown on the next page:

Rare Features Criteria	
Value	Criteria
High	Documented endangered species and/or natural communities within site boundaries.
Moderate	Documented endangered species and/or natural communities adjacent to site – high potential for endangered species to be present on site due to good quality habitat.
Low	No documented endangered species and/or natural communities within site boundaries – low potential for occurrence of endangered species
Natural Community Integrity Criteria	
Value	Criteria
High	Several natural communities with element occurrence rank of BC or higher – good diversity of natural communities
Moderate	One or less natural communities with element occurrence rank of BC or higher – moderate diversity of natural communities
Low	All natural communities with element occurrence rank of C or lower – large proportion of site consists of human-created environments (e.g., agricultural land) – low diversity of natural communities
Wildlife Habitat Criteria	
Value	Criteria
High	High diversity of good quality natural communities within local or regional corridors (e.g., Mississippi River Flyway) and/or sites containing critical or unusual habitat (e.g., native prairie, waterfowl feeding areas). Observations and records indicate high abundance and diversity of species.
Moderate	Good diversity of natural communities within local corridors. Habitat most suitable for habitat-generalist-type species. Observations and records indicate good abundance of wildlife.
Low	Low diversity and quality of natural communities, poor connectivity to other wildlife habitat areas. Generally, areas of intensive agricultural or urban land use.

*With information gathered from Result 1, The working committee will be used to prioritize the quality of the resources mapped and develop a consistent approach to the evaluation process.

Progress Summary: The consultant evaluated and classified the information he gathered during the field survey of Goodhue County. The Natural Resources Inventory is being written using the information gathered previously and during the field surveys. The working committee is being assembled for directional meetings regarding the use and dissemination of information.

Timeline: October 2000 - April 2001

LCMR Budget:	\$8,500.00	Match:	\$12,000.00	In-Kind:	\$1,500.00
Balance:	\$0.00	Match Balance:	\$0.00		

Result 3:

*The above information and databases will be placed in or converted to a standard GIS coordinate system compatible with the Goodhue County Parcel Base Map. Creation of Countywide GIS mapping and database of all natural communities. The boundaries for the natural communities and management units will be adjusted as needed on working map overlays. For instance, the boundary may be adjusted to be slightly larger or smaller to meet section lines or parcel lines if appropriate with the actual field results. Information gathered in the Goodhue County Natural Resources Inventory can best utilized if available in a GIS format. GIS provides for accurate, detailed mapping of natural resource features and the ability to make alterations of data, should changes occur. We propose that GIS Technicians at the Goodhue County Land Use Management Department perform natural community polygon digitizing and metadata creation.

*All natural communities will be classified, assigned qualitative rankings, and assigned management units based on: DNR standards, political boundaries, geologic landforms, and connectivity to other features and land uses. Natural Community data will be entered into a data base that will be linked to an ArcView polygon coverage for ease of accessibility.

Progress Summary: The project intern and William Root created the GIS project file for the field survey information received from the consultant. The intern began digitizing survey information. William Root is continuing the digitizing as of today, with additional survey information arriving.

Timeline: June 2000 - June 2001

LCMR Budget:	\$0.00	Match:	\$0.00	In-Kind:	\$8,500.00
Balance:	\$0.00	Match Balance:	\$0.00		

Result 4:

*Provide a written final report describing the natural communities, quality and their possible management recommendations to the participants, Townships, Cities and staff.

*With the help of City and County Staffs and a local advisory committee, we will develop specific management recommendations for each geographic unit. Management recommendations will address such topics as exotic species control, disease and insect control, prescribed burning, erosion control, stormwater management, public education and strategies for protection and/or preservation. We will address these topics at the regional (countywide) scale and local scale, and suggest concepts for regional natural resource corridors.

*Along with previously gathered data, resources analyses and GIS maps created by county staff, these management recommendations will be incorporated into a series of reports. These reports will be defined by previously identified geographical boundaries, such as watersheds, townships, or other natural or geopolitical areas. The report will include by-community information regarding community type, quality, restoration

potential, and other pertinent information. Also included will be appendices that include species lists for individual communities that were field visited.

The reports will be supported by GIS maps created by Goodhue County Land Use Management Department staff, as well as other appropriate supporting graphics. Four printed copies, as well as one digital copy of the final report will be delivered to Goodhue County Land Use Management. Develop a Countywide natural resource management plan, including a model City and Township ordinance. For each designated management unit, a set of management recommendations will be provided suggesting alternatives and strategies. A sample ordinance will be included for Townships and Cities to possibly adopt.

Final Summary: The project consultant has completed the final report and has forwarded a copy to the LCMR for review. Willie Root has been continuing work on the mapping part of the project.

Timeline: November 2000 - June 2001

LCMR Budget:	\$9,000.00	Match:	\$6,000.00	In-Kind:	\$1,500.00
Balance:	\$0.00	Match Balance:	\$0.00		

Result 5:

*Present information in a Countywide Natural Resource Forum. The final report will be presented at County Board, Township Board, and City Council meetings throughout the County. The presentation will provide an overview of natural resource features within the County and will highlight the most significant natural resources. Following completion of the final report, Bonestroo Staff will participate in up to eight meetings to present the results of the inventory, of which approximately four will be public informational meetings and four will be with local cities/county commission throughout Goodhue County.

Final Summary: The project consultant and Willie Root have made presentations to the Goodhue County Planning Commission and the Goodhue County Board of Commissioners. Informational meetings around the County are planned for the Fall of 2001 and available for any interested parties to attend.

Timeline: March 2001 - June 2001

LCMR Budget:	\$0.00	Match:	\$5,000.00	In-Kind:	\$7,500.00
Balance:	\$0.00	Match Balance:	\$0.00		

V. DISSEMINATION

Information gathered during preliminary work, field surveys and personal interviews will be documented in written and geographic forms. The information will then be ranked in accordance with: *Minnesota's Native Vegetation, A Key to Natural Communities and Element Occurrence Ranking Guidelines* and put into a report. The Goodhue County Natural Resources Inventory report will then be presented at County Board meetings, Township meetings, and City Council meetings throughout the County and reports made available.

The information and reports from this project will be available in both hard copy and digital formats. Goodhue County intends to make the information available through its Web Page. Mapping formats for the Web page are now under consideration. The local government units participating in the project will receive a hard copy format of the project report.

VI. CONTEXT

A. Significance

Goodhue County is located southeast of, and adjacent to, the Twin Cities Metropolitan Area and north of the growing urban center of Olmsted County. In recent years, urban growth from these areas has put increasing pressure on the natural resources and traditional land uses (e.g., agriculture) of the County. Much of Goodhue County lies within the Blufflands Ecoregion of Minnesota: a landscape characterized by steep topography, high quality hardwood forest and prairie, trout streams and recreational rivers and habitat for many of the States threatened and endangered species. Goodhue County has added natural resource significance due to its extensive blufflines and floodplains bordering the Mississippi River. The combination of unique and sensitive natural resources, coupled with urban growth pressures, makes a balanced, sustainable approach to development in Goodhue County important.

There have been many efforts to manage natural resources in Goodhue County including the formation of a local chapter of the Minnesota Land Trust, the Cannon River Watershed Partnership, the Wells Creek Watershed Partnership, and the MN DNR County Biological Survey. Among the more recent efforts undertaken is the *City of Red Wing Natural Resource Inventory - A Pilot Project*.

This project was initiated in late 1997 to inventory natural features and evaluate impacts of proposed development. Identification of high quality natural communities, threatened and endangered species, significant wildlife habitat, and cultural resources was completed within a 3000-acre area of Red Wing. This inventory incorporated information from MN DNR County Biological Survey as well as cultural resource information from the Minnesota Historical Society. Plant communities not surveyed during the MN DNR County Biological Survey were inventoried to provide detailed information for all natural communities.

Based on this information and a ranking of the communities, a stewardship plan was developed to guide natural resource management and urban growth in the Pilot Project Study Area. Cooperators for the Red Wing pilot project include City of Red Wing, Goodhue County, and the Minnesota Department of Natural Resources.

Other community-based natural resource management efforts in Goodhue County include the Little Cannon River Project, Prairie Creek/Big Woods Project, Wells Creek Watershed Project, Local Water Planning, Blufflands Initiative, Regional Planning and the Park Planning. State-based natural resource management efforts include the MN DNR County Biological Survey of Goodhue County and the MN DNR Phase II Forest Inventory conducted on State Land within the Richard J. Dorer State Forest.

B. Time

The Goodhue County Natural Resources Inventory and Management Plan project will begin in July 1999 and the final report will be delivered to the LCMR on June 30, 2001.

C. Budget Context

The Minnesota DNR County Biological Survey of Goodhue County was completed between 1990 and 1992 at a cost of approximately \$250,000.00 (Note, these dollars are not being used for matching purposes in this proposal). This survey identified the highest quality natural communities on about 33,000-acres and documented threatened and endangered plants and animals. More recently, during 1997, the City of Red Wing undertook a 3000-acre Natural Resource Inventory pilot project at a cost of \$10,000.00. The results of this Natural Resources Inventory are being used to help guide proposed development so that natural resources are protected. The final report and map for this pilot Natural Resources Inventory will be used as a model for the County-wide inventory and will serve as a demonstration to local units of government on how the Natural Resources Inventory will be used.

Recently, Goodhue County was awarded a grant by the Minnesota DNR to conduct a Natural Resources inventory in the Lower Wells Creek watershed. This inventory is similar in scope and covers approximately 4,000 acres of the Lower Wells Creek watershed in Goodhue County at a cost of \$20,000.00.

LCMR GRANT BUDGET:.....	\$ 75,000.00
Personnel.....	\$ 67,500.00
<i>(Paul Bockenstedt: Bonestroo, Rosene, Anderlik & Associate)</i>	
Equipment.....	\$ 0.00
Acquisition	\$ 0.00
Development.....	\$ 0.00
Other / Travel.....	\$ 5,500.00
Printing	\$ 2,000.00

VII. COOPERATION

Goodhue County has received support from a variety of groups. Additional townships and cities are considering their level of support as they would like to include some cash dollars as well as inkind support. Northern States Power is interested in the project, as of now, they have not been able to determine their level of support. The Prairie Island Community also has the grant under advisement. The college of St. Mary's, Winona, is considering providing inkind services through student thesis work for evaluating and plan development.

Goodhue County, along with the consulting firm of Bonestroo, Rosene, Anderlik and Associates, will be working with the Townships, Cities, businesses and special interest groups to ensure a usable product is developed. Paul Bockenstedt of Bonestroo, Rosene, Anderlik, and Associates will be working with the County as the lead contractor the entire project. The firm of Emmons & Olivier Resources is under consideration as a subcontractor to Bonestroo to assist in classification and assessment. Other in-kind support has been offered, but as of now, the level of commitment is yet to be determined.

VIII. LOCATION

The Goodhue County Natural Resources Inventory will include all portions of Goodhue County not already studied in previous natural resource inventories, which include 4,000 acres in the lower Wells Creek watershed and 3,000 acres in the City of Red Wing. The inventory will include public and private lands in townships and cities.

IX. REPORTING REQUIREMENTS

Periodic work program progress reports will be submitted not later than January 2000, July 2000, and January 2001. A final work program report and associated products will be submitted by June 30, 2001, or by the completion date as set in the appropriation.

Attachment A: Deliverable Products and Related Budget

LCMR Project Biennial Budget				Result 1: Project Overview			Result 2: Classification/Qualitative Assessment		
Budget Item	LCMR	Cash Match	In-Kind	LCMR	Cash Match	In-Kind	LCMR	Cash Match	In-Kind
Wages, Salaries & Benefits	\$0.00	\$0.00	\$5,800.00	\$0.00	\$0.00	\$1,500.00			
Space Rental, Maintenance & Utilities	\$0.00	\$0.00	\$200.00	\$0.00	\$0.00	\$0.00			
Printing & Advertising	\$100.00	\$100.00	\$0.00	\$0.00	\$0.00	\$0.00			
Communications, Telephone, mail, etc.	\$25.00	\$25.00	\$0.00	\$30.00	\$30.00	\$0.00			
Contracts	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Professional/Technical	\$57,375.00	\$25,825.00	\$0.00	\$8,320.00	\$11,820.00	\$0.00			
Other contracts	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Local Automobile mileage paid	\$0.00	\$50.00	\$0.00	\$150.00	\$150.00	\$0.00			
Other travel expenses in Minnesota	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00	\$0.00			
Travel outside Minnesota	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Office Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Other Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Tools and equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Office equipment & computers	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Other Capital equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Other direct operating costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Land/Rights Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Buildings or other land Improvement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
Legal Fees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00			
COLUMN TOTAL	\$57,500.00	\$31,000.00	\$6,000.00	\$8,500.00	\$12,000.00	\$1,500.00			

Attachment A: Deliverable Products and Related Budget

LCMR Project Biennial Budget						
Result 3: Mapping/Database Creation			Result 4: Final Report			
Budget Item	LCMR	Cash Match	In-Kind	LCMR	Cash Match	In-Kind
Wages, Salaries & Benefits	\$0.00	\$0.00	\$8,500.00	\$0.00	\$0.00	\$1,500.00
Space Rental, Maintenance & Utilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Printing & Advertising	\$0.00	\$0.00	\$0.00	\$400.00	\$400.00	\$0.00
Communications, Telephone, mail, etc.	\$0.00	\$0.00	\$0.00	\$0.00	\$30.00	\$0.00
Contracts	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Professional/Technical	\$0.00	\$0.00	\$0.00	\$8,600.00	\$5,570.00	\$0.00
Other contracts	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Local Automobile mileage paid	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other travel expenses in Minnesota	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Travel outside Minnesota	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Office Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Supplies	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Tools and equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Office equipment & computers	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Capital equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other direct operating costs	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Land/Rights Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Buildings or other land improvement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Legal Fees	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
COLUMN TOTAL	\$0.00	\$0.00	\$8,500.00	\$9,000.00	\$6,000.00	\$1,500.00

Attachment A: Deliverable Products and Related Budget

LCMR Project Biennial Budget		Result 5: Plan Development/Public Forum		
Budget Item	LCMR	Cash Match	In-Fund	
Wages, Salaries & Benefits	\$0.00	\$0.00	\$7,350.00	
Space Rental, Maintenance & Utilities	\$0.00	\$0.00	\$150.00	
Printing & Advertising	\$0.00	\$300.00	\$0.00	
Communications, Telephone, mail, etc.	\$0.00	\$300.00	\$0.00	
Contracts	\$0.00	\$0.00	\$0.00	
Professional/Technical	\$0.00	\$4,150.00	\$0.00	
Other contracts	\$0.00	\$0.00	\$0.00	
Local Automobile mileage paid	\$0.00	\$250.00	\$0.00	
Other travel expenses in Minnesota	\$0.00	\$0.00	\$0.00	
Travel outside Minnesota	\$0.00	\$0.00	\$0.00	
Office Supplies	\$0.00	\$0.00	\$0.00	
Other Supplies	\$0.00	\$0.00	\$0.00	
Tools and equipment	\$0.00	\$0.00	\$0.00	
Office equipment & computers	\$0.00	\$0.00	\$0.00	
Other Capital equipment	\$0.00	\$0.00	\$0.00	
Other direct operating costs	\$0.00	\$0.00	\$0.00	
Land/Rights Acquisition	\$0.00	\$0.00	\$0.00	
Buildings or other land improvement	\$0.00	\$0.00	\$0.00	
Legal Fees	\$0.00	\$0.00	\$0.00	
COLUMN TOTAL	\$0.00	\$5,000.00	\$7,500.00	