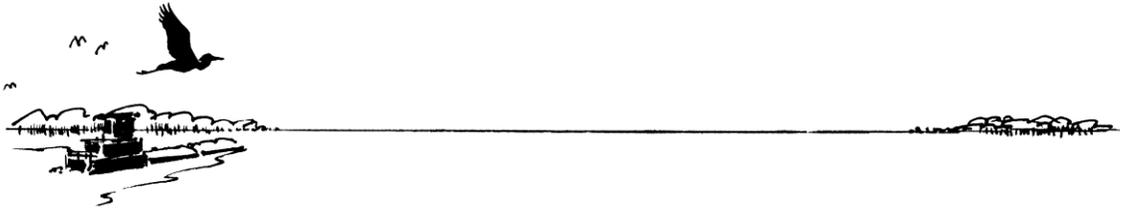


*Lower Minnesota River Watershed District*



# 2010 Annual Report



# *Lower Minnesota River Watershed District*

[www.watersheddistrict.org](http://www.watersheddistrict.org)

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\*Note: Monitoring Reports can be found and downloaded off the District web site at: [www.watersheddistrict.org](http://www.watersheddistrict.org), click on Reports

# *Lower Minnesota River Watershed District*

## **ANNUAL REPORT FOR YEAR ENDING DECEMBER 31, 2010**

The LMRW D was principally established to be a legal entity for providing local participation to the U.S. Army Corps of Engineers (USACOE) to construct a navigation channel within the Minnesota River. With this purpose in mind, a nine-foot channel was developed in cooperation with the USACOE. Today, the LMRWD is still actively involved in the maintenance of the channel.

The statutes and rules affecting watershed districts and watershed management organizations have changed since the inception of the LMRWD. These changes have broadened the role that watershed districts play in water resource management.

As a result of these changes the Managers have focused their efforts on the following six goals and activities:

- The District will implement a data collection, assessment and planning program for its resources
- The District will expand its project review (developments, government projects, etc.), making the process more consistent, and obtaining more cooperation from the cities. The proposed joint resolutions will be amended as resource assessments are completed to set specific limits and/or require special resource protection methods/strategies in the watershed.
- The District will expand its project inspection program to verify that projects are meeting specific standards.
- The District intends to change its role regarding LMRWD funding of projects that generally benefit the District. As resource plans are developed, the District will either independently, or jointly with other entities in response to petitions, enter into projects identified in resource plans that benefit these resources. This is a new role and purpose.
- The District will expand its commercial navigation initiatives; in addition to acquiring dredge material disposal sites, the District will obtain easements to access the sites and enter into other projects that benefit navigation and water quality in the river, such as bank stabilization control.
- The District has entered into cooperative agreements with the Metropolitan Airports Commission and the MN Department of Transportation, and will seek to enter into similar cooperative agreements with the Minneapolis Park & Recreation Board and the federal agencies to establish a project review and permitting program for the areas that were included in the “2000 Boundary Change Area” order.

# *Lower Minnesota River Watershed District*

*Also, quoting directly from the original petition: “That the formation, and establishment of the proposed District is necessary and would be conducive to the public health and public welfare in and upon its formation the District shall cooperate with, aid, and assist the State or Federal Government and all subdivisions of agencies thereof in carrying out the purposes of the District; that the timely establishment of said Watershed District will allow the immediate inception of the plans of the U.S. Army Corps of Engineers for the diversion and improvement of the watercourse of the Minnesota River within the District so as to provide water capacity for barges and heavy commercial river transportation on said river throughout the District, thus providing a water route for incoming and outgoing commodities of trade to serve the general agricultural and industrial areas adjacent to and within the trade area tributary to the District, all of which are of great benefit to the vast area of this State...”.*

The LMRWD is located in the southwest part of the Twin Cities metropolitan area along the Minnesota River. The boundaries encompass an area of 70 square miles including portions of Carver, Hennepin, Dakota, and Scott counties. This area includes the Minnesota River Valley from Fort Snelling, at the confluence of the Minnesota and Mississippi Rivers, upstream to Carver, Minnesota. The width of the District extends to the bluffs on both sides of the Minnesota River within this reach of the river.

The District’s river and valley floodplain receives storm water runoff from highly developed communities above the river bluffs. Yet, most of these communities on the river bluffs are not within the LMRWD boundaries. This unique characteristic requires that the LMRWD work cooperatively with adjacent communities and watershed districts to protect the quality of the Minnesota River and its natural and cultural resources.

# *Lower Minnesota River Watershed District*

## 2010 Annual Report BOARD OF MANAGER'S and STAFF

### MANAGERS

#### **Hennepin County**

#### **EDWARD SCHLAMPP, Treasurer**

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#### **KENT FRANCIS, Secretary**

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#### **LEN KREMER, Manager**

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#### **LARRY SAMSTAD, President**

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#### **Dakota County**

#### **DON MCCREADY, Manager as of 4/09**

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### STAFF

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#### **JOAN E. ELLIS**

Assistant Administrator  
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#### **HDR**

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Minneapolis, MN 55402

HLB Tautges Redpath, Accountant  
4810 White Bear Pkwy, WBL, MN 55110

# *Lower Minnesota River Watershed District*

## Technical Advisory Committee

- Allen Dye, MN Airport Commission
- Bill Monk, City of Chaska
- Brad Wozney, Board of Soil and Water Resources
- Brooke Asleson, MN Pollution Control Agency
- Daryl Jacobson, City of Burnsville
- Ellen Sones, Hennepin County
- Greg Genz, Upper Mississippi Waterway Association.
- Eric Macbeth, City of Eagan
- Jack Frost and Judy Sventek, Metropolitan Council
- James Fallon, US Geological Survey
- Jim Bodensteiner, Xcel Energy
- Kevin Bigalke, Nine Mile Creek WD
- Laura Jester, Dakota SWCD
- Leslie Stovring, City of Eden Prairie
- Lisa Lund and Paul Machajewski, US Army Corps of Engineers
- Bryan Gruidl, City of Bloomington
- Mark Nemeth, Tamara Simonich, Molly Shodeen and Mark Cleveland, MN Dept of Natural Resources
- Melissa Bokman, Scott WMO
- Mike Kinney and Stacy Sass, Prior Lake – Spring Lake WD
- Nick Tiedeken, Wesley Saunders-Pierce, and Beth Neuendorf, Mn Dept of Transportation;
- Paul Nelson, Scott WMO
- Peter Beckius, Scott SWCD
- Sam Lucido, City of Savage
- Steve Sodeman, MN Corn Growers Association
- Susie Carlin, MN River Board
- Terry Jeffery, City of Chanhassen
- Tim Sundby and Greg Arndt, Carver County
- Charles Blair US Fish and Wildlife Service
- Warren Formo, MN Ag Water Resources Coalition

## Citizen Advisory Committee

Dan Boyum and Bruce Koprucki – Carver County  
Carla Shutrop – Scott County  
Wally Neal – Hennepin County

# *Lower Minnesota River Watershed District*

## **ASSESSMENT OF PREVIOUS YEAR'S WORK PLAN**

**2010**

### **Minneapolis Airport Commission (MAC)**

#### **Annual Report**

MAC staff gave their annual report to the Board. A map of the 2009 Mpls/St.Paul airport projects was given to the board. Also, Flying Cloud Airport second phase earthwork is starting. The District had reviewed and approved the stormwater plan in 2008.

#### **Boundary Change**

MAC is still interested in having all MAC property within the District. The District informed MAC that all they have to do is petition the District. As of this writing MAC has not petitioned the District.

### **Nine-Foot Channel and Dredge Sites**

The District continues to want the USACOE and federal legislation to include not only the Nine-foot Channel, but also the Four-foot Channel as Representative Mike Beard, for economic reasons upstream, is interested in addressing the Four-foot Channel to improve economic conditions upstream

The District's lobbyist was seeking \$40,000.00 funding out of the Port Authority Assistance Program of \$4 million for the Nine Foot channel but was unsuccessful in 2010.

The District continues to look for various funding opportunities at the state and federal level for acquisition and/or leasing of dredge material sites and funding for maintenance of those sites.

The MPCA guidelines to determine the soil conditions of the dredge materials removed from the Minnesota River has deemed them safe after extensive testing. The USACOE samples soils before they dredge.

The District received a grant in the amount of \$40,000.00 to develop an access road at the District's acquired dredge site at River Mile 14.7. The road was completed in 2010.

### **Minnesota River Basin Commission Establishment**

The District continues to work the MRB and state legislators and continues to support Representative Lanning's basin bill.

### **Gully Inventory**

#### **Bluff Creek**

BWSR brought a severe erosion issue at Bluff Creek coming out of Riley-Purgatory Watershed District to the District's attention. MNDOT was concerned about the sediment load clogging their four box culverts at Highways 101 and 212. Annual maintenance costs were \$45,000 a year to clean the culverts out. The District is a recipient of the settled out sediment.

# *Lower Minnesota River Watershed District*

Meetings have been held periodically on this TMDL for Bluff Creek in the Riley-Purgatory Bluff Creek Watershed District. The District also met with U.S. Fish and Wildlife. The Riley-Purgatory Creek Watershed District decided **not** to move forward with correcting this issue in 2010.

## **Minnesota River Bank and Bluff Stabilization, Eden Prairie**

The results of an analysis of the Minnesota River bank erosion problem located southwest of the intersection of Riverview Road and Mooer Lane in Eden Prairie was completed by Wenck & Association and Stanley Consultants. A full report was given to the District along with three alternatives for correcting with associated costs. The three alternatives are:

- 1) Alternative 1 Riprap Blanket \$1,913,990
- 2) Alternative 2 Bendway Weirs \$3,320,590
- 3) Alternative 3 Rock Vanes \$1,071,590

## **City Visits**

Instead of city visits in 2010, the District Administrator utilized comments and projected projects from cities on the TAC on the proposed 10-year water resource plan.

## **2010 Education**

### **Metro Blooms Rainwater Garden Workshops**

The District approved a financial agreement with Metro Blooms in the amount of \$11,800.00 to conduct A & B workshops in the cities of Bloomington (2), Savage, Chanhassen and Eden Prairie. The District also promoted the workshops on their web site. The cities participated with in-kind promotion and hosted the workshop locations.

The Eaton Corporation, Eden Prairie, hosted a Metro Blooms rain garden workshop for their employees as part of the company's "green initiative" that the District financially supported. The corporation is also interested in installing a rain garden off their parking lot in 2011 or 2012.

### **Metro Watershed Partners**

The District again joined Metro Watershed Partners for \$500.00 and requested the funds go toward Clean Water Minnesota advertising program.

### **Blue Thumb Planting for Clean Water**

The District continued as a member of Blue Thumb and helped promote the organization on the web site. Volunteer service included participation at organization activities and participating with Metro Blooms in rain garden workshops.

### **2010 Carver County Environmental Children's Water Festival**

The District authorized \$500.00 towards bus transportation from Carver County to the State Fair Grounds for this important educational event. The goal to begin to participate with other environmental organization continues with Carver County.

**CAC**

3/2011

# *Lower Minnesota River Watershed District*

The District continued to work with the CAC on the development of an education plan.

## **Cities**

### **Chanhassen**

#### **Seminary Fen/Assumption Creek**

The DNR purchased a portion of the Seminary Fen. In 2010 the District continued to work with surrounding property owners to purchase easements so restoration can take place. Because the Seminary Fen is an SNA it is governed by state statute.

## **Other Projects/Efforts**

### **Next Generation Water Resource Plan**

The District continues to work on updating their 10- year Water Resource Plan. The District has responded to TAC comments several times on the plan and continues to work diligently on updating the plan.

### **Carver County Environmental Services**

The District partnered with Carver County WMO and the City of Chaska to conduct a shoreline restoration on Brickyard-Clayhole Lake in Chaska. Contributed cost was \$1,333.96, paid in January 2011.

### **Carver County WMO**

The District contributed \$2,064.40 towards the completion of the Carver County Geologic Atlas, paid in January 2011.

**Monitoring** (Monitoring reports can be found on the District website @ [www.watersheddistrict.org](http://www.watersheddistrict.org))

### **USGS**

The District again approved an agreement with the USGS to monitor the stream gage on the Minnesota River at Ft. Snelling.

### **Scott County 2010 SWCD Agreement**

The District approved a monitoring agreement with Scott County SWCD for 2010.

### **Carver County 2010 Agreement**

The District approved a monitoring agreement with Carver County for 2010.

### **Dakota County 2010 Agreement**

The District approved a monitoring agreement with Dakota County for 2010..

The Metropolitan Council stated they could no longer monitor Willow Creek in Dakota County. Carver County showed interested in monitoring above Lake Grace in Carver County and the City of Chaska was willing to pay to have the monitoring station and to operate the station. The station was given to the District at no cost by the Metropolitan Council and in turn the station and equipment was transferred to the City of Chaska.

# *Lower Minnesota River Watershed District*

## **PROJECTED WORK PLAN**

1. Receive approval from BWSR of the 10-year water resource plan and begin implementation to the extent there is funding available in 2011.

### **2. River Basin Bill**

The District will continue to pursue the establishment of a Minnesota River Basin Commission through lobbying efforts at the legislature.

3. The District will continue to pursue alternative opportunities for the funding of the Nine-Foot Channel.

4. The District will continue its extensive monitoring programs.

5. The District will continue to work with other local units of government on groundwater, wetland, lake and stream protection.

6. The District will continue to work on development and implementation of TMDLs.

7. The District will continue to cooperate with the cities, counties and other LGUs on the enforcement of our joint resolutions for stormwater protection.

8. The District will continue to secure protection of the unique natural resources and features of the District.

### **9. Education**

#### **Metro Blooms**

In 2011 the District will again partner with Metro Blooms.

#### **Blue Thumb Planting for Clean Water**

The District will continue supporting this education organization in 2011. Goal is to ensure that all cities and townships are aware of this organization to gain access to educational materials and events. The District's contribution to this organization is the Metro Blooms and city and county collaborative projects in stormwater management.

#### **Supporting partners in educating the public, including children, and cleanup projects**

The District will continue to support both types of projects.

#### **District Web Site ([www.watershreddistrict.org](http://www.watershreddistrict.org))**

The District continues to utilize the web site to post monitoring data collection and other important reports, articles, public involvement to improve water quality, etc. The web site will start to take on a new look in 2011 becoming more organized and more contemporary.

#### **Education Plan**

The District will complete its education plan in 2011 with the assistance of the CAC.

# *Lower Minnesota River Watershed District*

## **Historical Perspective of the LMRWD**

It is a goal to approach the board with a project to chronicle the last 50 years of the District.

## **2010 Board Officers:**

President: Lawrence Samstad  
Vice-President: Don McCready  
Secretary: Kent Francis  
Treasurer: Edward Schlampp

## **Audit:**

The 2009 audit was approved by the board with no changes at a cost not to exceed \$6,975.00 and was delivered to BWSR and other agencies according to MN Statute.

## **PERMITS/VARIANCES/ENFORCEMENT ACTION**

The cities within the District are the LGU on our behalf. We do not permit projects, but depending on the project the cities will ask us to review a particular project alongside their review.

## **SUMMARY OF WATER QUALITY MONITORING DATA**

The Lower Minnesota River Watershed District has several monitoring locations within the District. 2010 Summary Reports have been placed on the web site([www.watersheddistrict.org](http://www.watersheddistrict.org)) and can be downloaded.

## **EVALUATION OF STATUS OF LOCAL PLAN ADOPTION AND IMPLEMENTATION**

In order to review the District's performance in carrying out the implementation activities specified in its 1999 2<sup>nd</sup> Generation Watershed Management Plan, a review of the planned implementation activities (Table 6-1) in the 1999 Plan was performed. Table XXX lists each planned implementation activity followed by the activities carried out by District since 1999. (See Appendix A).

The District reviewed the Riley-Purgatory Creek Watershed District water resource plan and had numerous comments that were given to them for review.

The District reviewed the Scott County WMO water resource plan and had no comments.

## **COPY OF PUBLISHED COMMUNICATION REQUIRED BY PART 8410.010 SUBPART 4**

The Lower Minnesota River Watershed District's web site ([www.watersheddistrict.org](http://www.watersheddistrict.org)) contains all the requirements of MN Rules 8410.0100 and is available all year.

## **ACTIVITIES RELATED TO BIENNIAL SOLICITATION FOR LEGAL, PROFESSIONAL OR TECHNICAL CONSULTING SERVICES UNDER MN STATUTES 103B.227, SUBD.5**

We solicited for legal and engineering services in 2010. We will solicit again in 2012.

# *Lower Minnesota River Watershed District*

## **SSESSMENT OF CHANGES IN FUND BALANCES INCLUDING DESCRIPTION OF PROGRAM COSTS WITH RESPECT TO OVERALL ANNUAL BUDGET**

The District historically has had an Administrative Fund and Project Funds (see the descriptions in MS 103D.905). The Administrative fund has been used for general administrative expenses and for construction, implementation, and maintenance of projects and the project funds have been used for implementing specific projects. For the 12 months ending December 31, 2010, the General and Administrative portion of District costs were calculated to be 29 percent and the Programs and Projects portion of District costs were calculated to be 71 percent, including salaries, benefits, overhead and capital costs.

2010 Budget Amounts	\$544,974.00
2010 Actual Expenditures	\$419,513.00
General & Administration	\$121,658.77
Programs & Projects	\$297,854.23

The District's fund balance as of December 31, 2010 was \$659,462.00.

## **STATUS OF ANY LOCALLY ADOPTED WETLAND BANKING PROGRAM**

There was no activity under this heading.

**#####**

# *Lower Minnesota River Watershed District*

## APPENDIX A

In order to review the District's performance in carrying out the implementation activities specified in its 1999 2<sup>nd</sup> Generation Watershed Management Plan, a review of the planned implementation activities (Table 6-1) in the 1999 Plan was performed. Table XXX lists each planned implementation activity followed by the activities carried out by District since 1999.

**Table XXX – 1999 2<sup>nd</sup> Generation Plan Planned Implementation Activities and District Accomplishments to Date**

<i>ID Number</i>	<i>Planned Implementation Activity (Table 6-1, 1999 2nd Generation Plan)</i>	<i>Accomplishments to Date</i>
1	Acquire dredge material disposal sites.	In 2006, the District acquired the 18 acre River Mile (R.M.) 14.2 site. This site meets the USACE needs for a dredge material disposal site above the I-35W river crossing. The District now has the task of acquiring a site to service dredge material disposal from the Minnesota and Mississippi River confluence upstream four miles. The District has been in contact with USACE, Mn/DOT, USFW, and the USAF to locate potential sites in the area. This effort has been temporarily suspended as the District awaits a USACE cost/benefit analysis comparing the cost of dredge disposal site acquisition in the lower reach to transporting the material to an existing site in St. Paul.
2	Acquire permanent road access to dredge material disposal sites.	Permanent road access was acquired for the R.M. 14.2 site in 2010.
3	Manage LMRWD's dredge material disposal sites.	In 2001 and 2005, the District removed material from its previous leased disposal site at a cost of \$240, 000.00. The costs were associated with the terms of the lease. The lease was not renewed in 2007 due to the District's acquisition of the RM 14.2. site in 2006.
4	Develop and implement public/private dredge material management plan (DMMP).	Although the District did not formally develop a DMMP, steps were taken by the District to manage dredge material. In 2006, the District lobbied the State Legislature to modify state statute which allows the District to receive material from private river dredging and charge for this service.
5	Complete and revise joint resolutions with local governments regarding water management responsibilities.	Joint resolutions with all local governments were completed in 2001.
6	Maintain active citizen and technical advisory committees.	A citizen's advisory committee and technical advisory committee were established as part of the 3rd Generation Management Plan process.
7	Participate in discussions regarding possible expansion/contraction of the District boundaries.	In 2000, the District expanded its boundaries to include a portion of the Metropolitan Airport Commission's (MAC) Minneapolis-St. Paul Airport. Currently, 80% of the MAC's land is within the District with 100% of its storm water draining into the District.
8	Project/plan review.	The LMRWD reviews projects and plans as requested by LGUs per the District's joint resolutions with those entities. In addition, the District performs an annual informal audit to ensure that the District's joint resolutions with the LGUs are enforced.

## *Lower Minnesota River Watershed District*

9	Inspect projects.	The District inspects projects as they occur and contracts with SWCD's for inspection services when necessary.
10	Administer LMRWD's floodplain regulations during interim period between LMRWD plan approval and local plan/ordinance approval.	Most LGUs within the District currently have floodplain ordinances. LMRWD has administered floodplain regulations when appropriate as in the case of the Huber Park redevelopment in the City of Shakopee.
11	Publish and distribute annual newsletter.	From 2000 to 2003, the District published an annual newsletter. In 2004, the District began placing quarterly articles on its webpage in addition to articles, reports, and meeting minutes.
12	Identify and inventory the District's resources, distribute map to local units of government.	In 2004, the district adopted the Guidance to Implementation in order to move the LMRWD's implementation agenda forward. This document included an identification and inventory of the District's resources.
13	Collect existing water quality, biological and physical data for priority resources.	In the early 2000s, the District began monitoring East and West Chaska Creeks, Assumption, Spring, Willow and Eagle Creeks and Unnamed Trout Stream 7, along with extensive fen groundwater monitoring. In November 2005, the district adopted and began implementation of a groundwater monitoring strategy for the calcareous fens and trout streams in the District. The District also works with Carver County and the City of Chaska on monitoring and reporting of the three quarry lakes (Fireman's, Clayhole and Courthouse) in Chaska.
14	Assess priority resources and report results - Phase 1: data collection.	In 2004, the district adopted the Guidance to Implementation in order to move the LMRWD's implementation agenda forward. As part of the study, a comprehensive survey and review of ongoing resource management and monitoring efforts in the watershed was performed in an effort to assess critical areas. This included a written survey and follow-up discussions with the multiple cities, counties, agencies and individuals working on resource management in the watershed. The implementation strategy in the LMRWD's 1999 Water Management Plan was then reviewed in the context of the resource management assessment. Specific activities in the 1999 Plan were refined and prioritized, and additional activities were added based on discussions with stakeholders in the watershed. The result was a prioritized Implementation Guidance table, to allow the LMRWD to move forward in a proactive, systematic fashion.
15	Assess priority resources & report results - Phase 2: data and watershed analysis.	See comment for ID #14.
16	Lead consensus effort to develop goals for priority resources; assist (technically and financially) with development of resource plan for priority resources; publish plan.	See comment for ID #14.
17	Implement resource plan: undertake petitioned projects, provide financial support for capital projects, and public information efforts.	See comment for ID #14.

## *Lower Minnesota River Watershed District*

18	Review local water management plans for conformance with LMRWD plan.	The District has reviewed the following local water management plans: City of Bloomington, City of Burnsville, Black Dog Watershed Management Organization (WMO), City of Carver, City of Chanhassen, City of Chaska, City of Eagan, City of Eden Prairie, City of Lilydale, City of Mendota Heights, City of Savage, City of Shakopee, Carver County WMO, Scott County WMO, Riley-Purgatory-Bluff Creek Watershed District (RPBCWD), Nine Mile Creek Watershed District (NMCWD), Gun Club Lake WMO, and the City of Mendota Comprehensive Plan.
19	Minnesota River floodplain redefinition study.	This study was completed in 2003 and the results have been shared with the Mn/DNR. The report has been used for the redefinition of floodplains in all counties within the District.
20	Collect and distribute hydrologic information pertaining to the Minnesota River and needed by communities for planning and resource management.	The District continues to collect and distribute data on its website in cooperation with the Mn/DNR, MCES, USGS, USACE, counties and cities.
21	Identify, inventory, and map gully erosion and resultant siltation sites in LMRWD. Add information to database.	In 2006 and 2007, the District hired the Minnesota Civilian Conservation Corps (MCCC) to inventory gullies within the District. The inventory identified gullies with current and potential erosion and pollution issues. Cities then reviewed the information and chose the top 3-4 public sites in each that needed immediate attention. Feasibility analyses were completed by the Cities. As a result, four cooperative projects with the cities of Eden Prairie and Bloomington have been completed: Bloomington Parkers Picnic Area, the District contributed \$22,265 for the restoration of a ravine including fill, grading, plantings and erosion control; Bloomington Minnesota River Valley Washout, the District contributed \$98,214 for stream bank restoration on an unnamed stream near Lyndale Avenue and the Minnesota River; Eden Prairie Area 4, the District contributed \$40,412 for stream bank restoration on Purgatory Cree; Eden Prairie Area 3 River Bank failure, the District contributed \$78,704 for a feasibility study of this area of concern at R.M. 19.6 on the left descending bank.
22	Participate in Metropolitan Council's Watershed Outlet Monitoring Program to monitor stream outlets into the Minnesota River.	The District, in cooperation with the Met Council, Mn/DNR, Scott SWCD, Dakota SWCD, and Carver County Environmental Services monitor the following streams: Chaska Creek, East Chaska Creek, Assumption Creek, Eagle Creek and Willow Creek. Thermal monitoring of Unnamed Trout Stream #7 is also carried out.

## *Lower Minnesota River Watershed District*

23	Undertake petitioned bank erosion control projects for bank control measures on the Minnesota River.	As a result of the 2006/2007 gully inventory, the City of Eden Prairie petitioned the District to investigate an area of severe erosion near R.M. 19.6. The District hired a consultant to do further investigation of the site and offer 3 alternatives to solve the issue. The alternatives proposed to correct the situation range from \$1,000,000 to \$3,000,000. In consideration of the costs associated with the project, the District managers believed that funding should be provided by the state instead of a District wide or project levy.
24	Undertake petitioned bank erosion control projects for bank control measures on tributaries of the Minnesota River.	Three gully inventory projects in Eden Prairie and two projects completed in Bloomington, described above under implementation item 21, address bank control measures on tributaries to the Minnesota River.
25	Greenbelts - acquire conservation easements for stream buffers, shorelands, and other sensitive natural areas.	The District worked closely with the DNR and the Minnesota Legislature for the acquisition of private land at Seminary Fen for a Scientific and Natural Area (SNA) and the expansion of Raguay Wildlife Management Area (WMA) in 2008. The District provided in-kind services to acquire these areas. Currently, the District continues to work with the DNR, Chaska, Chanhassen, and the private land owners in the area of Seminary Fen for acquisition of those parcels identified as critical for protection of the Fen.
26	Develop public access to, and facilitate public enjoyment of, the District's resources.	The District provided \$70,000 in funding of the Kraemer Nature Center in the City of Burnsville. The District provided \$30,000 in funding of and relocation of the Shakopee boat launch site which is dedicated to longtime District consultant and manager Lawrence Samstad (Sam's Landing). The District provided \$30,000 to the USFWS for two demonstration projects consisting of 1) construction of vernal ponds at the Bloomington Visitor Center and 2) conversion of the existing parking lot storm sewer system to a rain garden system. The District also provided in-kind services with these projects.

Based on the results of this comparison, it can be concluded that the District has performed adequately enough to address all of its planned implementation activities from the 1999 Plan in some fashion.

A major step towards reprioritizing implementation actions was the District's 2004 Guidance to Implementation document which is described above in Table XX under ID #14. Table XXX shows the District's efforts to implement the activities listed in this document. Since 2004, the District has addressed nine of the fourteen implementation actions in the 2004 Guidance to Implementation document.

<i>Map Index</i>	<i>Action</i>	<i>Accomplishments to Date</i>
1A	Develop management plans for Courthouse Lake, Firemen's and Clay Hole Lake that outlines a strategy for protection and/or improvements as may be appropriate for each waterbody.	Completed in November 2004.

## *Lower Minnesota River Watershed District*

1B	Outline the watershed, identify stakeholders and initiate efforts for the development of a management plan for Assumption Creek and watershed.	This is an ongoing project. The District is currently working a "Stewardship Plan" in cooperation with the Met Council, DNR, and the cities of Chaska, and Chanhassen. The Met Council is taking the lead on this effort as they were given a grant by the 2010 legislature to lead this effort.
1C	Keep the integrity of Dean Lake intact by maintaining existing conditions. Work with City and Prior Lake/Spring Lake Watershed District (PLSLWD) to maintain a wildlife corridor around lake.	The District has been and continues to work with the City of Shakopee and the PLSLWD for the protection of this waterbody.
1D, 1E	Work with the Minnesota River Board (MNRB) to compile loading comparisons / summaries for monitored tributaries as data allows (MNRB takes technical lead).	The District continues its aggressive stream monitoring program and posts the unchecked information on its web page on a quarterly basis.
1F	Act as facilitator to bring together various stakeholders in Nicols Fen, Harnack and Kennealy Creeks (and possibly unnamed trout stream #1)	The district has developed a monitoring plan for these resources and has partnered with the Gun Club Lake WMO and developed a monitoring plan for Nichols fen. The district also coordinated the repair of storm water erosion problem created by drainage from Mn/DOT right-of-way.
1G	Assist City of Burnsville in assessing and possibly devising approach to remediate bank erosion problems along Minnesota River.	The District initiated talks with the COE for the repair of and or protection of the river banks adjacent to Black Dog Road. The COE stated the only funds available for this type of project were for areas which have infrastructure which was damaged as a result of erosion and nothing available for preventative measures. We then approached the City of Burnsville and due to budget issues they had no interest in participating in a project.
2A	Support City of Eagan in implementation of infiltration features in Cedar Grove.	No action. The project has been delayed due to economic conditions which have placed redevelopment in this area on hold.
2B	Assist in implementing Credit River Erosion Control Plan.	The City of Savage completed this Plan with grant monies from the State.
-	Develop overall TMDL strategy for all impaired reaches within the LMRWD.	No action.
2C	Assist in design/construction of stormwater quality retrofit improvements in downtown Chaska.	The District has worked closely with the City on redevelopment projects in the old town area of the City. As a result of this cooperation the City has installed several BMPs (sumps, proprietary devices, etc.,) when reconstructing streets and other infrastructure.
2D	Assist City of Burnsville in assessing restoration potential of unnamed trout streams 4 and 7.	The District has installed thermal monitoring on unnamed trout stream 4.
2E	Conduct lake and watershed assessment for Black Dog Lake.	No action. Excel energy owns the lake and is planning extensive alterations to their cooling operations
2F	Develop linked P8 model for that portion of the Black Dog watershed within the LMRWD.	No action. See comment E2 above

## *Lower Minnesota River Watershed District*

	<p>Evaluate further potential implementation opportunities for Wedgewood Marsh, Blue Lake, Coleman Lake, Nine Mile Lake, Gun Club Lake, Fisher Lake, Nyssens Lake, Gillford Lake, Cyess Lake, Rice Lake, Long Meadow Lake, Snelling Lake, Riley Creek, Bluff Creek, Carver Creek, East Chaska Creek, Chaska Creek.</p>	<p>Do to the frequent flooding of these floodplain lakes the district has chosen not to spend large amounts of money on these lakes.</p> <p>We have worked with the DNR on potential invasive control on Snelling Lake but this project has been deferred until completion of a MAC Storm sewer project which impacts the lake is completed. Coleman Lake has been placed on hold do to the discovery of the presence of the Northern Cricket Frog. This frog is on the Minnesota Endangered Species List.</p> <p>All of the creeks listed have minor portions within the district. We have been working with the other involved WMO's and WD's with the monitoring and TMDL development for these streams.</p> <p>The District plans to complete resource inventories and assessments to identify potential implementation activities during the first two years after adoption of the 3rd Generation Watershed Management Plan.</p>
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