

Clean Water Fund Expenditure Report



Minnesota Pollution Control Agency

January 2012

Legislative Charge

Minn. Statutes § 114d.50, subd. 4c

A state agency or other recipient of a direct appropriation from the Clean Water Fund must compile and submit all information for proposed and funded projects or programs, including the proposed measurable outcomes and all other items required under Section 3.303, subdivision 10, to the Legislative Coordinating Commission as soon as practicable or by January 15 of the applicable fiscal year, whichever comes first.

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Minnesota Pollution Control Agency

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Introduction

The Clean Water, Land, and Legacy Amendment of 2008 increased Minnesota's sales tax and use tax rate by three-eighths of one percent on taxable sales. One-third of those funds are dedicated to the Clean Water Fund to protect, enhance, and restore water quality in lakes, rivers, streams, and groundwater, with at least five percent of the fund targeted to protecting drinking water sources. The Minnesota Pollution Control Agency (MPCA) is one of seven agencies that receive direct appropriations from the Clean Water Fund.

By the end of fiscal year (FY) 2013, the MPCA is scheduled to have received a total of \$94.88 million over the course of four fiscal years from the funds generated by the amendment. These resources have allowed the agency to significantly accelerate its efforts in water quality monitoring and assessment, to conduct special research as requested by the Legislature, and to more fully integrate MPCA water resource management efforts with those of local governments and stakeholders.

In broad strokes, these funds have supported the following types of work:

- Water quality monitoring and assessment
- Water quality study development
- Protection and restoration
- Groundwater assessment

Reporting and transparency

In accordance with Minn. Stat. § 3.303, subd. 10, the MPCA has tracked the disbursement of these funds in detail on the website established by the Legislative Coordinating Commission (LCC) at www.legacy.leg.mn. For the sake of transparency, the MPCA has elected to make this information available at the level of individual projects, most of which received less than \$500,000 each.

At present, the website includes all details that were legislatively mandated as of the 2009 Legislative Session (name and description of each project, contact information for the project manager, amount of funding received, etc.). During the 2011 Special Session, the Legislature instituted new reporting requirements, including the number of full-time equivalent jobs attributable to each project and information about board members for funding recipients.

As of this printing, the content management system underpinning the LCC website cannot accommodate the posting of this new information. Once the website has been updated, MPCA will begin adding these details to all posted projects, including projects from past funding years. As the current biennium proceeds, all the required information will be posted at the time the project contract is executed.

The MPCA also posts details about all funded projects on its website in a condensed format.¹ A copy of these condensed project listings may be found in the appendices to this report.

¹ <http://www.pca.state.mn.us/aj0r3d5>

Funding for 2010-2011

For the FY 2010-2011 biennium, the Minnesota Legislature appropriated \$152.25 million to the Clean Water Fund. The MPCA received \$47.11 million from this appropriation.² These resources allowed the MPCA to fund 156 water quality projects across the state. Appendix A of this report shows the distribution of these projects by watershed.

Disbursement of the MPCA's Clean Water funds for the 2010-2011 biennium fell into the following general categories:

Water quality monitoring and assessment: \$16.74 million. The MPCA works within a 10-year plan for assessing water quality across the state, with assessment cycles being completed in 10 percent of the state's 81 major watersheds each year. During FY 2010 and 2011, water quality assessment began in 15 watersheds, which are highlighted in Figure 2.

Water quality study development (TMDLs): \$18.75 million. The federal Clean Water Act requires that states quantify the pollution reductions necessary to restore impaired waters. During this biennium, Clean Water funds directly financed 68 projects related to the development of such studies under the federal Clean Water Act, and supported the MPCA's technical assistance and project oversight for these activities.

Protection and restoration: \$9.36 million. As part of this work, the MPCA administered the Clean Water Partnership Grant Program, contracted for St. Louis River restoration work, and issued grants for beneficial reuse of wastewater.

Groundwater assessment/drinking water protection: \$2.25 million: This funding supported assessment efforts, including the ambient monitoring network, modeling, and assessment of contaminants of emerging concern.

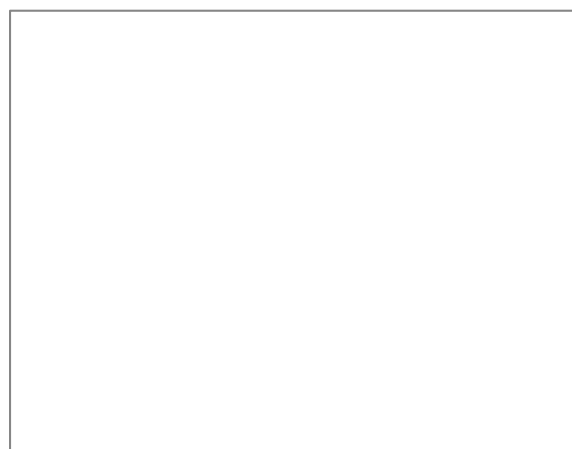


Figure 1. Distribution of MPCA's 2010-2011 Clean Water Fund dollars

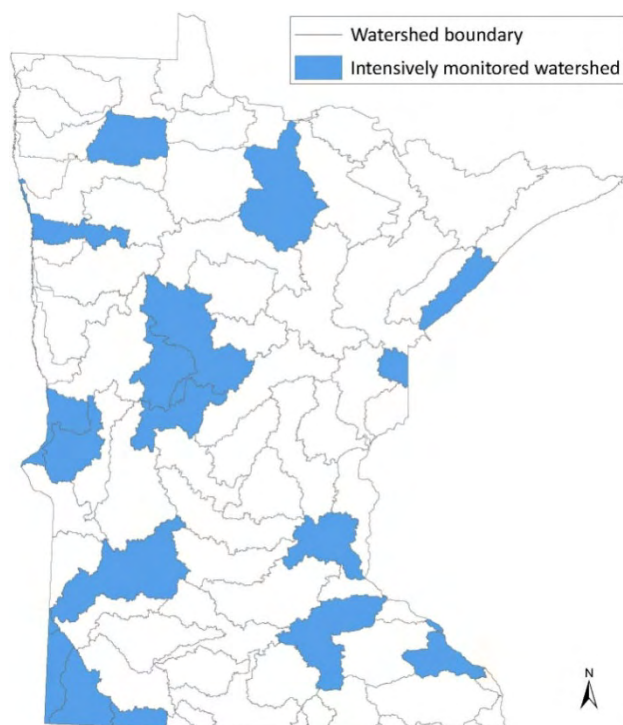


Figure 2. Locations of intensive watershed monitoring, 2010-2011

² Initially, during the 2009 Legislative Session, the MPCA was given \$51.16 million for the FY 2010-2011 biennium. During the 2010 session, this amount was reduced by \$4.05 million, for an adjusted total of \$47.11 million.

Within the \$47.11 million appropriation, the Legislature funded and mandated the completion of nine specific projects:

- **Minnesota River water quality effectiveness monitoring: \$348,000.** Funds were used to update the biological condition monitoring of the lower Minnesota River and its tributaries as previously assessed from 1976 to 1992.
- **Wastewater treatment monitoring (endocrine disruptor monitoring): \$896,000.** Funding was used to monitor and identify contributions of selected endocrine-active chemicals and pharmaceuticals in Minnesota surface waters, and to identify implications for aquatic communities.
- **Red River watch: \$346,000.** The Red River Watershed Management Board received grants to enhance and expand river watch activities in the Red River of the North.
- **St. Croix watershed monitoring: \$500,000.** Funding was used to implement comprehensive water quality monitoring and phosphorus reduction activities in the Lake St. Croix portion of the St. Croix River.
- **St. Louis River restoration: \$950,000.** This funding was used to assess the health of the St. Louis River in critical areas, restore impaired habitat, and clean up contaminated hot spots. The U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency are matching Clean Water funding for this project at a rate of 2:1.
- **Database development: \$500,000.** Funding was used to continue development of a database to manage and track all aspects of the restoration and protection process for impaired and unimpaired waters.
- **Nitrate-nitrogen rule: \$600,000.** Funding provided for research into a toxicity standard for nitrate and the development of a total nitrogen allowance for the state.
- **Civic engagement/TMDL development: \$250,000.** Funding was used to introduce additional civic engagement activities into the Total Maximum Daily Load (TMDL) development process.
- **Coal tar stormwater best management practices: \$500,000.** Funding was used to provide notification of coal tar contamination, to establish an inventory schedule, and to develop cleanup and treatment practices. FY 2011 funding was used to provide grants to local units of government for treating or cleaning up contaminated sediment.

Appendix B consists of a complete listing of projects carried out during the 2010-2011 biennium, including the cost of each project. Though no new projects will be undertaken using funds from this biennium, \$1.58 million has been carried forward into the current biennium for costs that have been encumbered but not yet paid out. In addition, out of the \$47.11 million appropriation, approximately \$199,000 was returned to the Clean Water Fund as a result of projects being completed at a lower cost than the budgeted amount.

Funding for 2012-2013

The Clean Water Fund received a total appropriation of \$179.43 million for the 2012-2013 biennium. Of this total, the MPCA will receive \$47.77 million. At this point in the biennium, only a small number of project contracts have been executed.

As illustrated in Figure 3, funds for this biennium have been allocated for the following general categories of work:

Water quality monitoring: \$16.5 million. Funds will be used to complete 20 percent of the needed statewide assessments of surface water quality and trends. Activities include monitoring lakes and streams in 12 to 16 of the state's major watersheds, sampling at the outlets of the state's major watersheds, and providing pass-through funding for local assessment monitoring efforts. Figure 4 shows the watersheds where the agency's most intensive monitoring is expected to occur in 2012 and 2013.

Water quality study development and tool development: \$21.9 million. Working within the MPCA's 10-year assessment cycle, funds will be used to develop water quality standards, protection strategies, and implementation plans for lakes and streams listed on Minnesota's list of impaired waters.

Protection and restoration: \$5.1 million. Funding will be used to administer the Clean Water Partnership Grant Program (\$2 million), to restore the St. Louis River (\$1.5 million) and for wastewater and stormwater implementation efforts (\$1.6 million).

Groundwater assessment and Subsurface Sewage Treatment System funding: \$4.27 million. Of this funding, \$2.25 million will be used for groundwater assessment, including enhancing the ambient monitoring network, modeling, and continuing to assess contaminants of emerging concern.

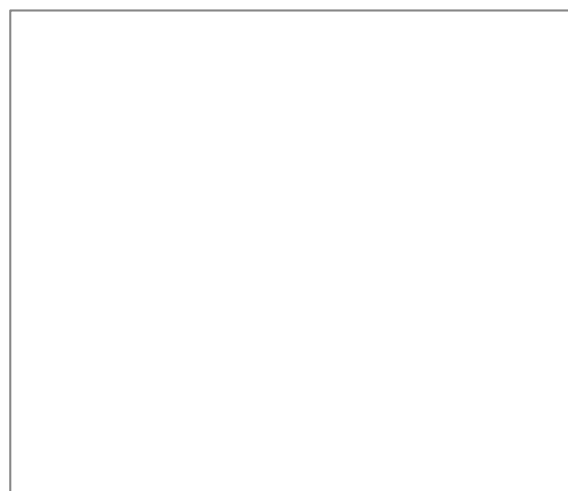


Figure 3. Distribution of MPCA's 2012-2013 Clean Water Fund dollars

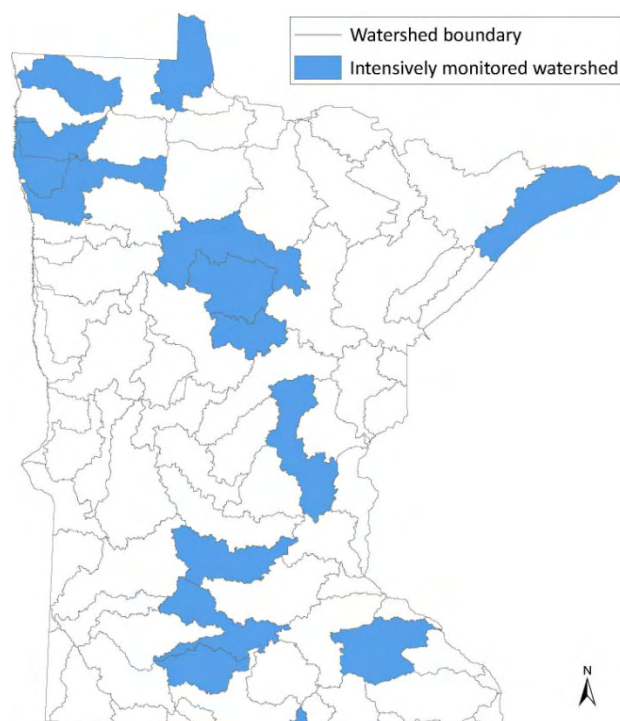


Figure 4. Locations of intensive watershed monitoring, 2012-2013

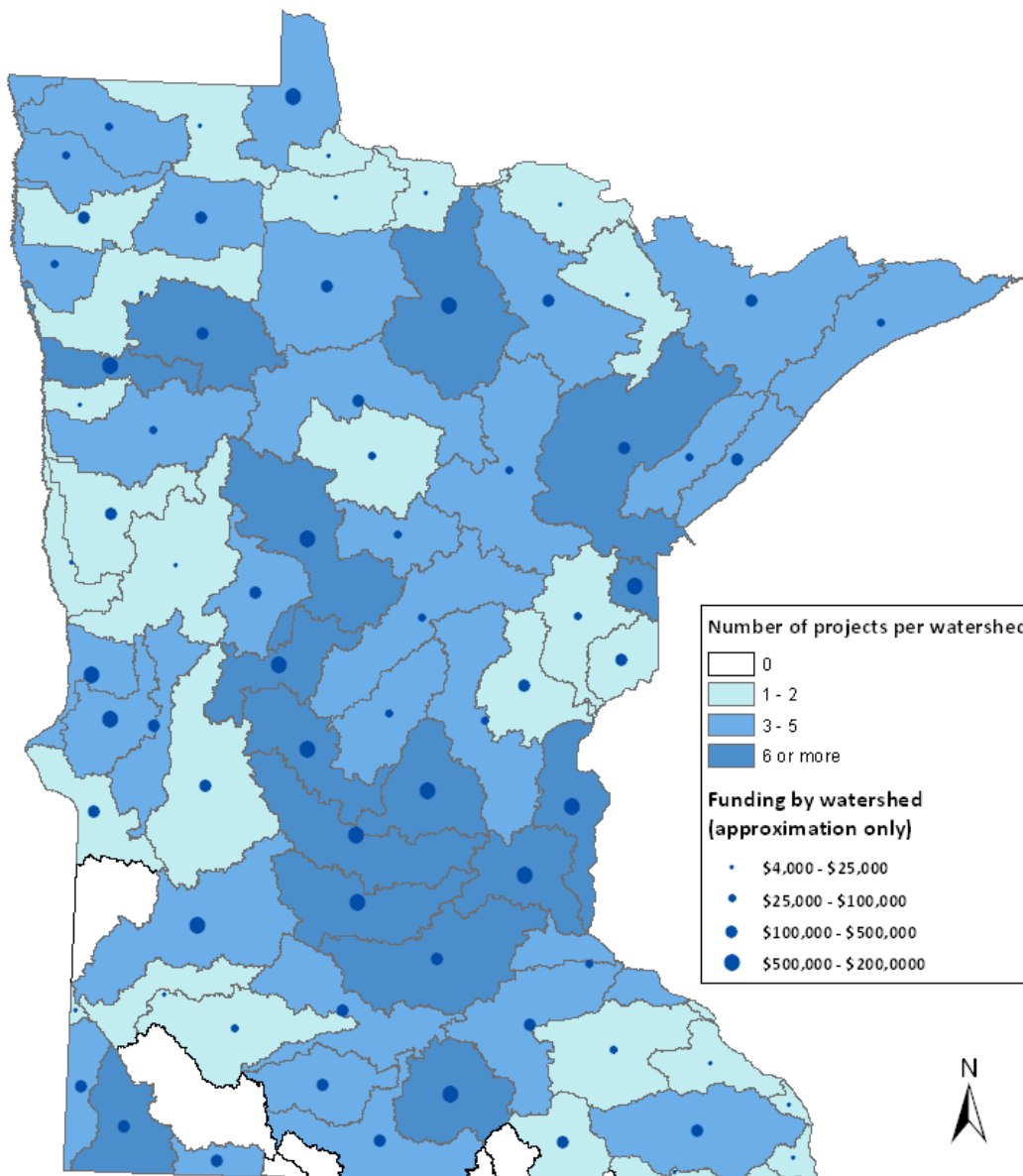
As in the previous biennium, a portion of these funds will support projects specifically mandated by the Legislature. This biennium's projects include:

- **Red River watch: \$200,000.** These funds will provide grants to the Red River Watershed Management Board to enhance water quality and watershed monitoring activities in the Red River of the North basin.
- **Wild Rice Standards Study: \$1.5 million.** This appropriation will fund a study evaluating the toxicity of sulfate to wild rice plants. The information developed will inform the MPCA's decision as to whether or not a change to the existing standard is necessary.
- **Database development and rules: \$2.3 million.** Funding will support the continued development of a database to track all aspects of the restoration and protection process for Minnesota waters.
- **Stormwater research and guidance: \$800,000.** This appropriation will fund the updating of a manual to support the necessary research needed to update design and construction techniques to manage stormwater to protect surface water and respond to impacts created by stormwater.
- **St. Louis River restoration: \$1.5 million.** The project will assess the health of the river in critical areas, restore impaired habitat, and clean up contaminated hotspots. This appropriation must be matched at a rate of \$2 non-state money to \$1 state money.
- **Wastewater and stormwater implementation efforts: \$1.6 million.** The wastewater and stormwater implementation dollars will support the development of watershed permits for wastewater treatment plants to reduce their impact on specific watersheds. Additionally, stormwater permittees and facility owners will receive assistance to support their response to the needed improvements.
- **Groundwater and aquifer research in I-94 corridor: \$450,000.** This appropriation will be transferred to the Environmental Quality Board for work to characterize groundwater flow and aquifer properties in the I-94 corridor.
- **Groundwater protection: \$1.57 million.** These funds will be used to enhance county-level delivery systems for subsurface sewage treatment systems.

Appendix C includes a listing of the project contracts that have been executed as of January 4, 2012. As more contracts are finalized, the MPCA will continue to post detailed information on the LCC website.

Appendix A: Funded projects by watershed

As of January 4, 2012, 166 project contracts have been executed using funds from the Clean Water, Land, and Legacy Amendment. The map below illustrates the distribution of these projects across Minnesota's 81 major watersheds. Dollar amounts in each watershed represent the level of funding of projects affecting that watershed.³ In addition to these watershed-specific projects, 25 projects totaling \$14.30 million supported statewide work.



³ Many projects included work in more than one watershed. For the purposes of this illustration, the dollar amount of the project contract was divided evenly among the watersheds affected by the project. Total dollar amounts by project may be found in Appendices B and C.

Appendix B: Funded projects, 2010-2011

This information represents contracts executed by the MPCA as of the date of this publication. The projects do not describe the split between counties involved in any project as projects are funded by watershed or areas and not by shared county boundaries. The project costs do not include the match by local entities, so they are not necessarily total project costs.

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Crow Wing River	Hubbard County Soil & Water Conservation District	Shane Foley 218-732-0121 shane.foley@mn.nacdn.net	Monitoring	This project will collect water quality data for 13 Hubbard County lakes located in the Crow Wing priority watershed and identified as priority lakes by the MPCA. Upon completion the project data set will include all of the necessary information for the lakes to be assessed for impairment due to nutrients. Volunteers will collect samples from 7 of the 13 lakes and paid SWCD staff will collect samples from 6 of the lakes that do not have public access or volunteers willing to sample. The water samples will be collected 5 times/year June-September in 2010 and 2011.	2010	\$11,509
Crow Wing River, Pine River, Upper Mississippi Brainerd	Crow Wing Soil and Water Conservation District	Melissa Barrick 218-828-6197 melissa.barrick@co.crow-wing.mn.us	Monitoring	This project will collect a complete Trophic Site Index (TSI) data set for Crow Wing County lakes and a complete data set for streams and rivers for the Intensive Monitoring Program (IMP). Crow Wing County, Cass County, Wadena County, Morrison County and Hubbard County are partnering to ensure that all target lakes and rivers within the Crow Wing River watershed are monitored efficiently.	2010	\$45,964
Nemadji River	Carlton County Soil and Water Conservation District	Kirsten Swenson 218-384-3891 kirstenswenson@carltonswcd.org	Monitoring	This project will focus on collecting stream water quality data. Citizen volunteers and SWCD staff will complete water quality monitoring on two targeted stream sites in the watershed and eight additional sites including prospective MPCA biological assessment sites and DNR-Fisheries priority sites. This project will expand citizen participation into the assessment of streams in the watershed which are not included in the current TMDL study and expand data collection to a wider set of parameters. The goal of this project is to complete a water quality data set for 303(d) assessment for Aquatic Life of streams in the Nemadji River watershed while expanding landowner involvement through volunteer monitoring opportunities and water quality awareness.	2010	\$34,162
Rock River	Rock County Soil and Water Conservation District	Douglas Bos 507-283-8862 Ext. 3 douglas.bos@mn.nacdn.net	Monitoring	This project is a comprehensive two year water sampling program that will effectively assess the water quality of three main tributaries that contribute to the Rock River. These tributaries are the Champepadan Creek, Mound Creek and an unnamed Creek. The sampling frequency will be two times per month in the year 2010 and three times per month in the year 2011. Sampling will begin in April, when the channels are mostly free of ice, and continue until October each year. The project goal is to provide a sufficient data set for assessment needs for aquatic life & aquatic recreation beneficial uses.	2010	\$22,754
Long Prairie River Watershed	Douglas Soil and Water Conservation District	Emily Siira 320-763-3191 Ext.3 emily.siira@mn.nacdn.net	Monitoring	This project will obtain a lake data set for Douglas County while fostering lake association participation, ownership, and understanding of their lakes. A better understanding of these lakes is necessary in order to meet goals established in the 2009-2019 Comprehensive Local Water Management Plan and enable 303(d) and 305(b) assessments. Lakes included in this project are: Agnes, Alvin, Blackwell, Brophy, Charley, Cook (Cork), Crooked (East), Crooked (NW), Echo, Henry, Lovera (Lovers), Mina, Round, and Spring.	2010	\$16,892
Cannon River Watershed	Rice County Planning & Zoning	Jennifer Ann Mocol-Johnson 507-333-3871 jmocol@co.rice.mn.us	Monitoring	Rice County Water Resources Division will complete a Surface Water Assessment for six lakes located in the Cannon River Watershed. The lakes chosen include: Sprague Lake (66-0045-00), Mud Lake (66-0054-00), Hatch Lake (66-0063-00), Pooles Lake (66-0046-00), Logue Lake (66-0057-00), and Phelps Lake (66-0062-00). Each lake chosen is currently unassessed, and both Sprague and Mud lake are priority lakes for testing. Sampling will include testing dissolved oxygen, temperature, pH, Secchi, Total phosphorus, and chlorophyll-a. The samples will be taken by volunteers and paid staff.	2010	\$25,308
Big Fork	Lake of the Woods Soil and Water Conservation District	Mike Hirst 218-634-1842 Ext. 3 mike.hirst@mn.nacdn.net	Monitoring	The "Bigfork River Target Watershed Assessment – Lake of the Woods & Koochiching Soil and Water Conservation Districts" Project focuses on collecting water chemistry and field parameters at Bear River, Big Fork River (4 sites), Caldwell Brook and Sturgeon River. The project will support the biological assessments being completed by MPCA staff for this Target Watershed Assessment. This work will also train and develop Koochiching SWCD staff to enable them to continue water quality monitoring in the Rainy River Basin.	2010	\$52,077
Cannon River Watershed	Cannon River Watershed Partnership	Elizabeth Croteau-Kallestad 507-786-3913 beth@crwp.net	Monitoring	This project will assess lakes and streams in the Cannon River watershed that have not been assessed to determine if they are meeting their designated uses. Some of these lakes and streams have data for certain pollutants, but not enough to complete an impairment assessment. The river and stream reaches are located in Dakota, Goodhue, Le Sueur, Rice, Steele, and Waseca counties. The lakes are located throughout the Cannon watershed (Le Sueur, Rice and Waseca Counties). This project will be a continuation of past assessments conducted in 2007 and 2009.	2010	\$69,471
Big Fork	Itasca County Soil and Water Conservation District	Noel Griese 218-326-0017 noel.griese@itascaswcd.org	Monitoring	This project will collect water chemistry and field parameters at the Popple River, Bowstring River, Big Fork River, Rice River, Caribou Lake and Eagle lake. It will also support the biological assessments being completed by MPCA staff for this Target Watershed Assessment. This project is a collaborative effort with MPCA, 3 SWCDs, and the well established Bigfork River Watch Program. This project is a collaborative effort with Lake of the Woods and Koochiching County SWCDs because the Big Fork Watershed encompasses both Itasca and Koochiching Counties. Lake of the Woods SWCD will be providing guidance to Koochiching SWCD to develop a surface water monitoring program through oversight and training.	2010	\$31,656

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Lake Superior Basin	St. Louis Citizen Action Committee	Julene Boe 218-733-9520 slrcac@stlouisriver.org	Monitoring	The St. Louis River Alliance will complete the data set for the water quality assessment of six target streams in the Lake Superior Basin. These streams are the Gooseberry River, Beaver River, Lester River, Big Sucker River, Split Rock River and Knife River. In addition, the St. Louis River Alliance will complete the data set for the water quality assessment of two non-target streams in the St. Louis River watershed. These two streams are Coffee Creek and Buckingham Creek. The St. Louis River Alliance's goal for this project is to provide data to complete water quality assessments for six streams in the Lake Superior basin and for two streams in the St. Louis River watershed.	2010	\$48,685
Rock River and Little Sioux Watersheds	Nobles Soil and Water Conservation District	Ed Lenz 507-376-9150 Ext.117 edward.lenz@noblesswcd.org	Monitoring	The Nobles Soil and Water Conservation District (SWCD) will test waters needing data for impairment listing in the Rock River and Little Sioux watersheds. Two reaches of the Little Rock River and the Ocheyedan River need stream water assessments. Iowa Lake needs sampling completed for impairment identification. The project will obtain adequate stream and lake data to either list the tested stream reaches and lake on the 303(d) list as impaired, or provide evidence that the stream reaches and lake is not impaired.	2010	\$22,346
Minnesota River (Granite Falls)	Prairie Country Resource Conservation & Development Council, c/o Hawk Creek Watershed Project	Cory H. Netland 320-523-3666 hawkcreekcory@redred.com	Monitoring	This project will assess 4 lakes and 17 stream sites. The four lakes will be assessed for total phosphorus, chlorophyll-a, and such data by the HCWP staff. Staff will monitor East Twin, West Twin, West Solomon, and St. John's Lakes for total phosphorus, chlorophyll-a, and Secchi disk readings. In order to obtain a sufficient dataset. Ten samples will be collected over 2 years. Water samples at 17 stream locations for chemical analyses, including intensive watershed monitoring sites and "non-target" sites.	2010	\$52,753
Big Fork River, Little Fork, Mississippi	Itasca Community College	Pat Leistikow 218-322-2403 pleistikow@itascacc.edu	Monitoring	This assessment will be performed using scientific volunteers, will build capacity at a technical training program at Itasca Community College (ICC), and will provide MPCA with answers providing a reasonable expectation for water quality in this under-studied region of Minnesota. The purpose of this project is to inventory the water quality of 6 of the high priority Big Fork watershed lakes targeted by MPCA and 39 additional lakes between 100 and 500 acres in the Big Fork River watershed, the Little Fork River watershed, the upper Mississippi basin, and a in a part of Itasca County that USGS and MDNR placed nominally in the Prairie-Willow drainage (Mississippi tributary) but really either flow north to the Big Fork or are endorheic. Each lake will be sampled on 8 occasions over two years. The samples will measure phosphorus, nitrogen, chlorophyll, color, alkalinity, pH, dissolved organic carbon as mixed zone (2m) integrated samples and field depth-profiles of temperature, oxygen, pH, turbidity, and conductivity.	2010	\$117,272
Middle Minnesota River	Brown County	Brooke Patterson 507-233-6641 brooke.patterson@co.brown.mn.us	Monitoring	This project will work in cooperation with individual volunteers to perform grab samples and visual assessments of four waterbody sites in Brown County. The data collected will be an educational tool to inform the County's citizens about water quality concerns. Using volunteers to collect the water quality samples and visual assessments will result in the volunteers taking personal pride and stewardship in clean water throughout the County. Sites that will be assessed include Judicial Ditch 10, County Ditch 63, County Ditch 10 and an unnamed stream that enters into Spring Creek, a DNR designated trout stream. The monitoring sites selected are located within the Middle Minnesota River Watershed, which is impaired for fecal coliform and turbidity.	2010	\$33,065
Crow Wing River, Pine River, Leech Lake River, Mississippi River-Headwaters, Mississippi River-Grand Rapids	Cass County Environmental Services Department	John Ringle 218-547-7241 john.ringle@co.cass.mn.us	Monitoring	This monitoring project includes lake and stream monitoring and encompasses all of Cass County, and surrounding counties. The project will obtain water quality data for streams; in 2009, lakeshed assessments indicated that many surface waters throughout the county were data deficient. This project will address the need for sufficient data on a county-wide basis and fulfill the State's intensive watershed monitoring program goals by obtaining water quality data at targeted lake and stream sites.	2010	\$198,971
Crow Wing River and Wild Rice River	Becker County Soil and Water Conservation District	Brad Grant 218-846-7360 blgrant@co.becker.mn.us	Monitoring	This project involves monitoring three data deficient lakes in the Crow Wing River Watershed and one stream site at the inlet to White Earth Lake. The data deficient lakes were on the MPCA Targeted watershed list. After getting the required assessment dataset for these lakes, all targeted lakes in Becker County will be completed for this assessment cycle. The stream site is a site that the White Earth Lake Association and the Becker Coalition of Lake Associations (COLA) will monitor. It is the inlet to White Earth Lake. This project will complete a lake data set for 303(d) and Aquatic Recreation use assessments in Becker County by monitoring total phosphorus, chlorophyll-a and Secchi depth on 3 lakes and evaluate the stream inlet to White Earth Lake.	2010	\$19,176
Sauk River	Sauk River Watershed District	Lynn Nelson 320-352-2231 lynn@srwdmn.org	Monitoring	The SRWD, with assistance from local volunteers, will conduct water quality assessments on William Lake, Long Lake, Cedar Lake, Bass Lake, Felix Lake, Little Osakis Lake and Trout Creek to attain the necessary data to determine impairment status.	2010	\$68,475
Wild Rice River	Norman County Soil and Water Conservation District	Curtis Borchert 218-584-5169 borchert@arvig.net	Monitoring	This project will obtain lab and field data for waterbodies within the Wild Rice Watershed, to meet surface water assessment goals. Data will continue to be collected further upstream of some 2008 sites and enhance current assessment datasets. Some new tributaries, that lack assessment data, will also be monitored. The project goal is to complete the datasets necessary for the assessment of Aquatic Recreation Use for twelve streams in the Wild Rice Watershed.	2010	\$50,364
Carnelian-Marine-St. Croix	Washington Conservation District	Erik Anderson 651-275-1136 Ext. 32 erik.anderson@mnwcd.org	Monitoring	This project involves monitoring Arcola Creek. Stewardship strategies were defined for long term protection for the creek as part of the District's Lower St. Croix River Spring Creek Stewardship Plan and Ten Year Comprehensive Water Management Plan. Water quality monitoring is necessary to gather appropriate data for assessment.	2010	\$3,264

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Lester River	South St. Louis Soil and Water Conservation District	Nathan Schroeder 218-723-4946 nathan.schroeder@southstlouisswcd.org	Monitoring	This project will provide the data necessary to assess Eagle Lake. Assessment parameters will include chlorophyll-A, Total Phosphorous, such disk readings, temperature (2' interval), conductivity (2' interval), pH (2' interval), and dissolved oxygen (2' interval). These samples will be collected monthly from May through September.	2010	\$4,025
Rainy River and Lake Superior North	Cook County Soil and Water Conservation District	Cindy Gentz 218-387-3648 cindy.gentz@co.cook.mn.us	Monitoring	This project will collect a complete data set for total phosphorous and chlorophyll-a for 6 Cook County lakes while fostering lake association participation, ownership and understanding of their lakes. While many Cook County lakes have participated in the Citizen Lake Monitoring Program (CLMP) taking Secchi disk readings, these same lakes are deficient in basic lake chemistry data such as total phosphorus and chlorophyll-a. In order to establish a county baseline data set and assess trends as outlined in the Cook County Water Plan, as well as to enable state 303(d) and 305(b) assessments, a better understanding of these lakes is necessary.	2010	\$22,139
Clearwater River	Clearwater Soil and Water Conservation District	Kathy Rasch 218-694-6845 kathy.rasch@mn.nacdn.net	Monitoring	This project will complete a lake data set for 303(d) and Aquatic Recreation use assessments in Clearwater County by monitoring total phosphorus, chlorophyll-a and Secchi depth; by utilizing lakeshore owners.	2010	\$6,290
Mississippi River (Grand Rapids and Brainerd)	Aitkin County Soil and Water Conservation District	Janet Smude 218-927-6565 smude.aitkinswcd@gmail.com	Monitoring	This project will collect data for 8 lakes and 4 stream sites in 2010 and 2011. The lakes included in this project have little or no data, or are lakes where citizens have asked for monitoring assistance.	2010	\$21,391
Yellow Medicine River	Yellow Medicine River Watershed District	Cindy Potz 507-872-6720 ymrw@centurytel.net	Monitoring	This project will allow monitoring to take place on nine stream sites and characterize their water quality and determine their impaired status for biological and chemical parameters. The physical and chemical measurements will include dissolved oxygen, pH, temperature, conductivity, transparency, total phosphorus, total Kjeldahl nitrogen, total suspended solids, total volatile solids, nitrite-nitrate nitrogen, chloride, sulfate, hardness and e-coli.	2010	\$26,995
Hay Creek, North Branch of Middle Fork of Zumbro River	Goodhue County Soil and Water Conservation District	Beau Kennedy 651-923-5286 bkennedy@goodhueswcd.org	Monitoring	This project will focus on stream sample collection in 2 different watersheds in Goodhue County. Sample locations on streams will utilize existing STORET station ID sites along the North Branch of the Middle Fork of the Zumbro River and Hay Creek. The Middle Fork flows from the Kenyon area east to the City of Pine Island and drains roughly 40,000 acres. Hay Creek is a ~17,000 acre watershed that drains agricultural land and rolling hills between the town of Goodhue and Red Wing.	2010	\$16,357
North and South Fork Crow River	Crow River Organization of Water	Diane Sander 763-682-1933 Ext. 3 diane.sander@mn.nacdn.net	Monitoring	This project will enhance volunteer monitoring efforts and improve the methods used by area Lake Associations in sample collection, handling and data management. It will also assist these organizations in developing simple, straightforward lake management plans that will carry their efforts well beyond the scope of this project.	2010	\$36,505
Pioneer Sarah Creek	Pioneer-Sarah Watershed Management Commission	Judie Anderson 763-553-1144 judie@jass.biz	Monitoring	The Pioneer-Sarah Creek Watershed Assessment project will complete a condition assessment for all currently unassessed or partially assessed (i.e., incomplete datasets) lakes and streams throughout the Pioneer-Sarah Creek (PSC) watershed (South Fork of Crow River; Hennepin County). This project will utilize volunteer monitoring efforts (for ~30% of the effort) to assess the health of 7 lakes (Schwappauff, Rattail, Robina, Irene, Rice, Mud and Buck) and 3 stream reaches (Sarah Creek Mouth, Pioneer Creek Mouth and Pioneer Creek at Copland Road) throughout the PSC watershed using a range of water chemistry measurement endpoints.	2010	\$65,825
Statewide	University of Minnesota	Marvin Bauer (U of M) 612-624-3703 mbauer@umn.edu	Monitoring	This project will provide analysis of geographic patterns, temporal trends of lake clarity and relationships of water clarity to other lake properties, land cover and demographic factors by use of satellite remote sensing. Data for all lakes and years are available in the LakeBrowser, a web-based mapping tool that enables searches and display of results for individual lakes at: http://water.umn.edu/ . This project will extend and add to the database, analyze current and new data, and enhance the capability for resource managers to access and use the data.	2010	\$150,000
Two Rivers, Tamarac River, Grand Marais Creek, Clearwater River, Sandhill River	Red River Watershed Management Board	Wayne Goeken 218-574-2622 wrg@gvtel.com	Monitoring	This project will monitor nine locations in the major watersheds (8-digit Hydrologic Unit Codes) of the Lower Red River Basin. The stream outlet monitoring will provide the water chemistry data needed to calculate annual pollutant loads. Staff from the Red River Watershed Management Board will conduct the sampling, initially manage the data and provide the data to the Minnesota Pollution Control Agency (MPCA) for load calculations and import into the STORET data system.	2010	\$53,199
Lake of the Woods, Rainy River (Baudette), Rainy River (Manitou), Rapid River, Big Fork River	Lake of the Woods Soil and Water Conservation District	Mike Hirst 218-634-1842 Ext. 3 mike.hirst@mn.nacdn.net	Monitoring	This project will provide monitoring of four of the major watersheds (8-digit Hydrologic Unit Codes) in the western part of the Rainy River Basin. Staff from the Lake of the Woods SWCD will conduct water quality sampling, review, manage and provide collected data to the Minnesota Pollution Control Agency (MPCA).	2010	\$39,134
Mississippi River, Mississippi River (St. Cloud), Minnesota River (Shakopee), St. Croix River (Stillwater)	Metropolitan Council	Kent Johnson (Metropolitan Council) 651-602-8117 David Christopherson (MPCA) 651-757-2849 david.christopherson@state.mn.us	Monitoring	This project will provide condition monitoring and problem investigation monitoring at the following sites. Mississippi River: Tributaries include Bassett Creek, Cannon River, Crow River, and Minnehaha Creek. Minnesota River: Tributaries include Eagle Creek, Riley Creek, and Willow Creek. St. Croix River: Tributary includes Valley Creek.	2010	\$326,500
Blue Earth River, Le Sueur River, Watonwan River	Minnesota State University-Mankato	Dr. Shannon Fisher (MSU-Mankato) 507-389-5690 Scott Matteson (MSU-Mankato) 507-389-5338	Monitoring	MSU-Mankato Water Resources Center in the Mankato area will provide conventional pollutant monitoring at the following sites. Beauford Ditch, Big Cobb River, Blue Earth River, Le Sueur River (3), Little Cobb River, Minnesota River (2), Watonwan River.	2010	\$260,000

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Mississippi River, Minnesota River (Yellow Medicine), Mississippi River (Twin Cities), Mustinka River, Bois De Sioux River, Crow Wing River, Big Fork River	Minnesota Pollution Control Agency	Glenn Skuta 651-757-2730 glenn.skuta@state.mn.us	Monitoring	This project supports monitoring and assessment activities by MPCA EAO staff and includes lab analysis, equipment, and fieldwork expenses associated with monitoring and assessment activities. Lake Monitoring: Lakes are monitored for nutrients, clarity and other information to provide the data needed to assess the aquatic recreation use support. Biological and Water Chemistry Stream Monitoring: Monitoring to assess the conditions of streams in each watershed. Monitoring includes biological (fish and invertebrates), chemical (nutrients, sediments, etc.) and physical (habitat) measurements. Major watershed load monitoring (Watershed-Statewide): The major watershed load monitoring effort provides data on water quality conditions and trends for Minnesota's major rivers and their main tributaries. Ambient wetland monitoring: The goals of the ambient wetland monitoring effort are to assess status and trends of wetland conditions.	2010	\$4,432,804
Statewide	Minnesota Pollution Control Agency	Steve Thompson 651-757-2778 stephen.c.thompson@state.mn.us	Monitoring	This project supports monitoring and assessment activities by MPCA EAO staff and includes lab analysis, equipment, and fieldwork expenses associated with monitoring and assessment activities. The ambient groundwater monitoring network describes the current condition and trends in Minnesota's groundwater quality.	2010	\$826,071
Statewide	Minnesota Pollution Control Agency	Steve Thompson 651-757-2778 stephen.c.thompson@state.mn.us	Monitoring	This project supports monitoring and assessment activities by MPCA EAO staff and includes lab analysis, equipment, and fieldwork expenses associated with monitoring and assessment activities. The ambient groundwater monitoring network describes the current condition and trends in Minnesota's groundwater quality.	2011	\$457,610
Le Sueur River	Blue Earth County Soil and Water Conservation District	Jerad Bach Blue Earth County SWCD 507-345-4744	Monitoring	This project will provide additional monitoring data to be utilized in the watershed assessment process for the Le Sueur River Watershed Project. Monitoring will take place for an additional year at two sites along the Maple River.	2011	\$6,000
Nemadji River, St. Louis River	Carlton County Soil and Water Conservation District	Kirsten Sewnson 218-384-3891 kirstinsewnson@carltonswcd.org	Monitoring	This project will provide assessment data on the following five lakes: Venoah Lake, Spring Lake, Lac La Belle, Bear Lake, and Torch Light Lake (all within the Nemadji River Watershed and St. Louis River Watershed).	2011	\$15,730
Thief River	Red Lake Watershed District	Myron Jesme (Red Lake WD) 218-681-5800 jesme@wiktel.com	Monitoring	This project will collect water quality data at sites within the Thief River watershed. Nine monitoring sites were chosen at strategic locations along the Thief River and its significant tributaries.	2011	\$43,338
Rock River, Lower Big Sioux River	Rock County Soil and Water Conservation District	Douglas Bos 507-283-8862 Ext. 3 douglas.bos@mn.nacdn.net	Monitoring	This project will be a comprehensive water sampling program that will effectively assess the water quality of six sites; two main points on the Rock River, two main tributaries to the Rock River and two points where streams leave the state (Mud and Beaver Creek) for a period of two years.	2011	\$29,103
Long Prairie River	Todd Soil and Water Conservation District	Amy Piekarski (Todd SWCD) 320-732-2644 amy.piekarski@co.todd.mn.us	Monitoring	This project will be a joint effort between the Todd SWCD and the Sylvan Shores residents. Todd SWCD will organize and coordinate the project in full partnership with the Sylvan Shores residents. The actual monitoring will be a cooperative effort between Todd SWCD staff and citizen volunteers at Fawn and Pine Island Lakes.	2011	\$8,673
St. Croix River (Stillwater)	Washington Conservation District	Erik Anderson 651-275-1136 Ext. 32 erik.anderson@mnwcd.org	Monitoring	This project will collect water quality data at Zavoral Creek over a two year period.	2011	\$5,618
Pomme de Terre	Stevens Soil and Water Conservation District	Brett R. Arne (Stevens SWCD) 320-589-4886 ext. 109 brett.arne@stevenswcd.org	Monitoring	This project will complete data collection on 11 lakes over a 2 year period in the Pomme de Terre Watershed. The data collected will be used in the Major Watershed Project proposed for this watershed.	2011	\$13,986

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Minnesota River (Shakopee)	Scott Soil and Water Conservation District	Jaime Rockney (Scott SWCD) 952-492-5418 jrockney@co.scott.mn.us	Monitoring	This project will assess the condition of (10) tributary streams in the Blakeley Bluff region of Scott County. The selected tributaries all discharge directly into the Minnesota River, which is impaired for fecal coliform and turbidity.	2011	\$53,745
Mississippi River (Grand Rapids)	Aitkin County Soil and Water Conservation District	Janet Smude 218-927-6565 smude.aitkinswcd@gmail.com	Monitoring	This project will monitor sites at the Sandy River, Bass Lake, and Remote Lake located in the Big Sandy Lake Watershed.	2011	\$9,900
Cottonwood River, Watonwan River, Minnesota River (Mankato)	Brown County	John Knisley (Brown County) 507-233-6641 john.knisley@co.brown.mn.us	Monitoring	This project will further assess the water quality within Brown County by monitoring its rivers, streams, ditches and other waterbodies. This project will also be working in cooperation with individual volunteers to perform grab samples and visual assessments of seven waterbodies throughout Brown County.	2011	\$32,345
Big Sioux River (Medary Creek), Big Sioux River (Pipestone), Rock River	Pipestone Soil and Water Conservation District	Kyle Krier (Pipestone SWCD) 507-825-6765 kyle.krier@mn.nacdnet.net	Monitoring	This project will collect water quality data at eight stream sites in three of the MPCA targeted watersheds. The sites are located on Medary Creek, Flandreau Creek, Pipestone Creek (2), Split Rock Creek, Rock River, Poplar Creek and Chanarambie Creek. This project will also promote a citizens monitoring program and encourage individuals to participate in a monitoring program.	2011	\$49,130
St. Louis River, Cloquet River, Lake Superior (South)	University of Minnesota	Richard Axler (U of M-NRRI) 218-720-4316 raxler@nrri.umn.edu	Monitoring	This project will provide complementary (same year) physical and chemical data sets for three MPCA prioritized lakes in NE Minnesota to incorporate into the overall State database for MPCA assessment purposes as well as research purposes.	2011	\$16,283
Clearwater River	Red Lake County Soil and Water Conservation District	Tanya Hanson (Red Lake County SWCD) 218-253-2593 tanya.hanson@mn.nacdnet.net	Monitoring	This project will complete the dataset necessary for assessment of water quality on Brooks Creek, Black River, Lost River, Poplar River, and Hill River. By monitoring these five sites, Red Lake County SWCD will have collected baseline information on all of the Streams/Creeks in Red Lake County.	2011	\$34,366
Two Rivers, Tamarac River, Grand Marais Creek, Clearwater River, Sandhill River	International Water Institute	Danni Halvorson (IWI) 218-280-0515 dannihalvorson@wiktel.com Andrew Butzer (MPCA) 218-846-8138 Andrew.butzer@state.mn.us	Monitoring	This project will support water quality monitoring and data analysis in nine major watersheds (8-digit Hydrologic Unit Codes) of the Lower Red River Basin. The monitoring will assist in providing water chemistry data needed to calculate annual pollutant loads for the Major Watershed Load Monitoring Program (MWLMP) and provide short term data sets of select parameters to other MPCA programs.	2011	\$60,915
Redeye River (Leaf R.)	Wadena Soil and Water Conservation District	Kari Tomperi (Wadena SWCD) 218-631-3195 x 3 kari.tomperi@mn.nacdnet.net	Monitoring	This project will monitor the target watershed streams in Ottertail and Wadena counties. Six sites have been identified by MPCA for the biological monitoring and this project will complete the chemical and field analysis at these six sites.	2011	\$22,258
Sand Hill	International Water Institute	Danni Halvorson (IWI) 218-280-0515 dannihalvorson@wiktel.com	Monitoring	This project will complete the dataset required for assessment of Aquatic Recreation Use at 8 stream sites and 11 lake sites in the Sand Hill Watershed.	2011	\$55,198
Lake Superior (South)	St. Louis River Alliance	Julene Boe 218-733-9520 slrcac@stlouisriver.org	Monitoring	For this project, the St. Louis River Alliance will complete the data set for the water quality assessment of six streams in the Lake Superior Basin. These streams are the French River, Talmadge River, East Split Rock River, Skunk Creek, Chester Creek and Tischer Creek.	2011	\$29,791
Rock River	Nobles Soil and Water Conservation District	Ed Lenz 507-376-9150 Ext.117 edward.lenz@noblesswcd.org	Monitoring	This project will support the sampling of six stream sites: two reaches of the Little Rock River, two locations on the Kanaranzi Creek, one location on the East Branch of the Kanaranzi Creek as well as one location on the Ocheyedan River.	2011	\$36,100
Little Sioux River	Jackson Soil and Water Conservation District	Brian Nyborg (Jackson SWCD) 507-662-6682 ext. 3 brian.nyborg@mn.nacdnet.net	Monitoring	Jackson SWCD will collect water chemistry data at three sites; West Fork Little Sioux River, Little Sioux River, and the Loon Lake Outlet. A full suite of lab and field parameters will be collected May - September in 2011 and 2012 at all three sites.	2011	\$15,495
Kettle River	Pine County Soil and Water Conservation District	Jill Carlier (Pine County SWCD) 320-216-4241 jill.carlier@co.pine.mn.us	Monitoring	The Pine County SWCD project will collect complete sets of water quality data for the Kettle River and some of the tributaries and also collect complete sets of water quality data for six area lakes (Oak, Dago, Rhine, Elbow, Rock, and Lake Eleven).	2011	\$39,326
Upper/Lower Red Lake, Mississippi River (Headwaters), Clearwater River	Beltrami County Environmental Services	Brent Rud (Beltrami County ESD) 218-333-4158 brent.rud@co.beltrami.mn.us	Monitoring	This monitoring project will complete assessments of 41 lakes found throughout Beltrami County and acquire sufficient data for state/local assessments and also assist with county water planning.	2011	\$92,475
Minnesota River (Headwaters)	Upper Minnesota River Watershed District	Dianne Radermacher (UMRWD) 320-839-3411 dianne.radermacher@midconetwork.com	Monitoring	The Upper Minnesota River Water Quality Assessment Project will complete water chemistry assessments of the upper reaches of the Minnesota River Headwaters, which includes the main stem of the river, five main tributaries (Meadowbrook Creek, Salmonsens Creek, Fish Creek, Hoss Creek, Little Minnesota River and Stoney Run Creek), and one flowage lake (Long Tom).	2011	\$40,441
Le Sueur River	Blue Earth County Soil and Water Conservation District	Jerad Bach Blue Earth County SWCD 507-345-4744 jerad.bach@blueearthswcd.org	Monitoring	This project will provide additional monitoring data to be utilized in the watershed assessment process for the Le Sueur River Watershed Project. Blue Earth County SWCD will provide a technician to complete the water sampling for the sampling years 2011 and 2012 on the Maple River.	2011	\$23,325

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Statewide	Minnesota Geospatial Information Office (MnGeo)	Susanne Maeder (MnGeo) 651-201-2488 susanne.maeder@state.mn.us Benjamin Lundeen (MPCA) 218-316-3894 benjamin.lundeen@state.mn.us	Monitoring	This project will support the MPCA's water quality monitoring and assessment program. Specifically, the MPCA is developing a refined use designation process known as tiered aquatic life uses (TALU) to account for situations in which stream habitat has been compromised through hydrological alteration (e.g. channelization and ditching). An accurate state-wide determination of altered stream segments based upon the current National Hydrography Dataset (NHD) linework will assist in the assignment of the correct beneficial use within this new TALU framework. This project will apply the previously developed methods as well as modifications of this methodology at a state-wide scale. The final product from this project will provide a comprehensive set of altered watercourse events and established methodology for determining altered watercourse events throughout the state.	2011	\$249,322
Minnesota River (Mankato)	Minnesota State University- Mankato	Dr. Shannon Fisher (MSU-M) 507-389-5492 shannon.fisher@mnsu.edu	Monitoring	The Seven Mile Creek Condition Monitoring project will maintain and build on the continuous flow and water quality data base at three stream sites and one county tile in the Seven Mile Creek watershed through the collection of approximately eighty five water samples per monitoring season in preparation for the Middle Minnesota Intensive Watershed Monitoring scheduled to begin in 2013.	2011	\$34,345
Lake Superior, Nemadji River, Thief River, Sandhill River, Redeye River, Long Prairie River, Cannon River, Lower Big Sioux River, Rock River, Little Sioux River	Minnesota Pollution Control Agency	Glenn Skuta 651-757-2730 glenn.skuta@state.mn.us	Monitoring	This project supports monitoring and assessment activities by MPCA EAO staff and includes lab analysis, equipment, and fieldwork expenses associated with monitoring and assessment activities. Lake Monitoring: Lakes are monitored for nutrients, clarity and other information to provide the data needed to assess the aquatic recreation use support. Biological and Water Chemistry Stream Monitoring: Monitoring to assess the conditions of streams in each watershed. Monitoring includes biological (fish and invertebrates), chemical (nutrients, sediments, etc.) and physical (habitat) measurements. Major watershed load monitoring (Watershed-Statewide): The major watershed load monitoring effort provides data on water quality conditions and trends for Minnesota's major rivers and their main tributaries. Ambient wetland monitoring: The goals of the ambient wetland monitoring effort are to assess status and trends of wetland conditions.	2011	\$3,521,699
Statewide	St. Cloud State University	Professor Heiko Schoenfuss, Ph.D. (SCSU) 320-308-3130 hschoenfuss@stcloudstate.edu	Special	This project is a continuation of Statewide Lake study that revealed the ubiquitous presence of endocrine active compounds (EACs) in many MN Lakes. The initial project findings suggested two potential knowledge gaps in our understanding of EACs and their effects in lake environments. First, the sources of EACs and their entrance points into lakes need to be better defined than was possible in our previous statewide lake study. Second, fish habitats within the littoral zone of lakes where greatest biological production occurs, need to be matched with detailed, site-specific exposure patterns. SCSU will test the hypothesis that Biological Responses in Fish are Correlated with Microhabitat Exposure to Endocrine Active Compounds (EACs) within a lake rather than Mean EAC Exposure Across a Lake during this study. MPCA EAO staff will also provide technical assistance and oversight of the project.	2010	\$125,816
Statewide	United States Geological Survey (USGS)	Mark Ferrey (MPCA) 651-757-2355 mark.ferrey@state.mn.us	Special	USGS will complete the following activities in support of the SCSU project Assessing the Contribution of Microhabitat Differences on Biological Effects in Bluegill Sunfish in Sullivan Lake, MN-Continuation of MN Lakes Study 2010-2011. Geospatial analysis of maps, aerial photography, satellite imagery, GIS data, and field mapping (topography, bathymetry, vegetation, habitat); Bulk characterization of the physical and chemical features of the littoral zone, inflows, and outflows. Collection of field parameters (temperature, pH, dissolved oxygen, specific conductance), nutrients (chemetrics), and organic matter (fluorescence); Identify set of suitable monitoring wells or supply wells within 1 km of the lake shore. Collect water-level data and develop potentiometric map; Synthesize geospatial, physical and chemical characterization, and hydrological data into a map of the 4 major microhabitats (with detailed subclassifications). MPCA EAO staff will provide technical assistance and oversight of the project.	2010	\$146,602
Two Rivers, Tamarac River, Grand Marais Creek, Clearwater River, Sandhill River, Snake River, Thief River, Roseau River, Red Lake River, Upper and Lower Red Lake, Marsh River, Wild Rice River, Buffalo River, Otter Tail River, Red River of the North (Headwaters), Bois De Sioux River, Mustinka River	Red River Watershed Management Board	Wayne Goeken 218-574-2622 wrg@gvtel.com	Special	Agreement executed with Red River Watershed Management Board to enhance and expand River Watch activities in the Red River of the North. This project will develop an effective transferable model to engage and educate watershed residents, stakeholders, and others to better understand and protect watershed ecosystems through environmental monitoring, training, and formal and informal education programs in their local watershed. The project will build on the foundation of the existing Red River Basin River Watch program by strengthening three main activity areas: 1) curriculum integration and teacher training, 2) youth leadership and civic engagement, and 3) applied research collaboration and watershed science skills building. The River Watch program will be delivered through an effective working partnership between local schools and communities; local, state, and federal agencies; and academic institutions throughout the Red River Basin http://www.internationalwaterinstitute.org/riverwatchmain.htm .	2010	\$346,000
Statewide	Contract Labs: Minnesota Department of Health (MDH); Pace Analytical; AXYS Analytical Services, Ltd.; Battelle Memorial Institute; Dakota Technologies; Test	Judy L. Crane, Ph.D. (MPCA) 651-757-2293 judy.crane@state.mn.us	Special	This project will provide notification of the potential for coal tar contamination, establish a storm water pond inventory schedule, and develop best management practices for treating and cleaning up contaminated sediments. The sampling design includes 15 stormwater ponds, 5 each from residential, commercial, and industrial land use areas. Municipalities in the metro area with MS4 permits of stormwater ponds will be contacted to nominate candidate sites for this study. GPS coordinates will be taken at all sampling sites. Sampling of Stormwater Ponds will be conducted	2010	\$155,000

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Statewide	United States Geological Survey (USGS)	Kathy E. Lee (USGS) 763-783-3254 klee@usgs.gov Mark Ferrey (MPCA) 651-757-2355 mark.ferrey@state.mn.us	Special	The USGS and the MPCA will determine the relative contributions of endocrine active chemicals (EACs) and pharmaceuticals from WWTP effluent to aquatic ecosystems. The primary objective is to measure the concentrations of EACs and pharmaceuticals in water samples collected from the effluents from 20 WWTPs and at sites upstream and downstream of WWTP effluent discharge in Minnesota during 2009-2011. The second objective is to measure concentrations of EACs and pharmaceuticals in bottom sediments collected upstream and downstream of effluent discharge and the third objective is to estimate endocrine activity in water samples collected in sites.	2010	\$675,649
Statewide	St. Cloud State University	Professor Heiko Schoenfuss, Ph.D. (SCSU) 320-308-3130 hschoenfuss@stcloudstate.edu	Special	This project will assess the exposure and effects of WWTP effluent on a model vertebrae organism, the fathead minnow. Through a series of controlled experiments, to be conducted on-site of the WWTP utilizing the Mobile Exposure Laboratory Trailer (MELT), SCSU will address (1) onset and timing of acute exposure effects, (2) downstream exposure effects, and (3) reproductive consequences of exposure for male and female fathead minnows. MPCA EAO staff will provide technical assistance and oversight of the project.	2010	\$220,352
Statewide	United States Geological Survey (USGS)	Melinda Erickson (USGS) 763-783-3231 merickso@usgs.gov	Special	US Geological Survey-MN Water Science Center will complete laboratory analysis of groundwater samples for endocrine disrupting compounds (EDCs) and other emerging contaminants of interest, including organic waste water compounds, pharmaceuticals, and endocrine active compounds, and report results. MPCA staff will complete sample collection tasks. The USGS National Water Quality Laboratory and the Kansas Water Science Center Laboratory will perform the laboratory analyses. The project objective is to assess the magnitude of contamination by EDCs and other emerging contaminants in groundwater in the St. Croix River watershed.	2010 & 2011	\$527,269
Statewide	Amec/Geomatrix	Sharon Kroening (MPCA) 651-757-2507 sharon.kroening@state.mn.us	Special	Installation of 35-40 monitoring wells in the 11 county metropolitan area. Contractor will provide site selection, assistance in technical specifications for drilling services, oversight of well drilling activities, preparation of detailed documentation of following: a) well construction logs (as built), b) boring log records of geologic materials encountered during drilling, c) photographic log showing well location, d) documentation of well development activities, e) a brief informational history of land use activities at the well installation site and f) well location maps and site sketches or diagrams that delineate site features that could affect groundwater quality.	2010	\$80,000
Statewide	Widseth Smith & Nolting	Sharon Kroening (MPCA) 651-757-2507 sharon.kroening@state.mn.us	Special	Contractor assistance with site selection, reconnaissance and obtaining access for installation of ambient groundwater monitoring wells in Minnesota. This project will provide services for up to 25 well sites.	2010	\$20,000
Statewide	Thein Well Company	Sharon Kroening (MPCA) 651-757-2507 sharon.kroening@state.mn.us	Special	This construction project will provide the installation of (40) wells to support Ambient Groundwater monitoring activities at the MPCA.	2011	\$73,945
St. Croix River (Upper), St. Croix River (Stillwater)	St. Croix River Association (SCRA)	Deb Ryun (SCRA) 715-483-2292 debryun@scramail.com Denise Leezer (MPCA) 651-757-2523 denise.leezer@state.mn.us	Special	This project will provide information about the amount and sources of phosphorous flowing into Lake St Croix by implementing additional water quality monitoring and reduce the amount of phosphorous flowing into Lake St Croix by implementing phosphorous reduction activities. The St. Croix River Association (SCRA) will coordinate with the St. Croix Basin Water Resources Planning Team (Basin Team) on the identification and funding of comprehensive water monitoring and phosphorus reduction activities in the Lake St. Croix portion of the St. Croix River by selecting, awarding and executing grants through a fair competitive process.	2010	\$500,000
St. Louis River, Lake Superior (South), Nemadji River	U.S. Army Corps of Engineers (USACE)	Pat Carey (MPCA) 218-302-6613 patrick.carey@state.mn.us	Special	This project will provide technical, planning and engineering assistance to the MPCA for the development and implementation of the St. Louis River Remedial Action Plan (RAP). USACE along with the MPCA will administer work plans to complete a sediment assessment for areas within Superior Bay and Lower St. Louis Rivers, approximately 2,800 acres.	2010	\$750,000
Statewide	Minnesota Association of Soil and Water Conservation Districts (MASWCD)	LeAnn Buck MASWCD 651-690-9028 leann.buck@maswcd.org	Special	This project will provide Soil and Water Conservation Districts the opportunity to nominate an individual, business, company, municipality or organization for their concern, cooperation and/or implementation of conservation practices in a community environment. This award recognizes nominees that have excelled in a variety of categories which include: storm water management; land use conservation planning and implementation, and leadership relating to community conservation practices.	2011	\$1,500
Statewide	United States Geological Survey (USGS)	David L. Lorenz (USGS) 763-783-5133100 Lorenz@usgs.gov	Special	This project will use the Spatially Referenced Regression On Watersheds (SPARROW) model as a means of assessing and characterizing the nitrogen loading situation in Minnesota. These results will be used along with other nitrogen loading characterization efforts conducted by others, so that a more complete characterization can be conducted. The results of this effort will be useful as Minnesota works to establish state-specific goals and strategies to address its nitrogen loading situation.	2011	\$45,513
Ramsey	City of White Bear Lake	Mark Sather (City of WBL) 651-429-8526 msather@whitebearlake.org	Special	Varney Lake is owned and maintained by the City of white Bear Lake as part of its stormwater collection system. The City will excavate approximately 10,000 cubic yards of polycyclic aromatic hydrocarbons (PAH) contaminated sediment from Varney Lake (which is located in a residential area).	2011	\$100,000
Anoka	City of Circle Pines	James Keinath (City Administrator) 763-784-5859 jkeinath@ci.circle-pines.mn.us	Special	This project will remove accumulated sediment from two Stormwater Treatment Ponds in Circle Pines that were constructed in the 1970's. Recent testing of the sediments indicates that Tier 2 and 3 PAH compounds were found in the sediment. The most recent estimate for the volume of material that will be removed is 2,400 Cubic Yards.	2011	\$54,916

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Hennepin	City of Golden Valley	Al Lundstrom (Environmental Coordinator) 763-593-8046 alundstrom@ci.goldenvalleymn.gov	Special	The GVCC Pond Excavation Project will remove approximately 2,500 cubic yards of accumulated polycyclic aromatic hydrocarbons (PAH) Level/Tier 3 contaminated sediment from the Golden Valley Country Club stormwater treatment pond.	2011	\$61,577
Stearns	City of Paynesville	Renee Eckerly City of Paynesville 320-243-3714 renee@paynesvillemn.com	Special	The primary objective of this workplan is to demonstrate the ability of the City of Paynesville to meet the current and future wastewater treatment needs and achieve beneficial use of wastewater effluent, to replace the use of groundwater.	2011	\$2,494,362
Sherburne	City of Elk River	Justin Femrite, P.E. City of Elk River 763-635-1051 jfemrite@ci.elk-river.mn.us	Special	Great River Energy (GRE) operates a power plant in the City of Elk River which generates electricity by incinerating municipal solid wastes. The plant is located proximate to the City of Elk River wastewater treatment plant (WWTP). This project will result in a corresponding reduction of groundwater use by GRE.	2011	\$285,087
Lake Superior South, Nemadji River	Minnesota Department of Natural Resources	John Lindgren (MNDNR) 218-525-0853 john.lindgren@state.mn.us	Special	Project between Minnesota Department of Natural Resources and United States Army Corp of Engineers at Knowlton Creek Watershed to address a large amount of sediment deposited into the St. Louis River Area of Concern (AOC).	2011	\$200,000
Nemadji River	LimnoTech	Hans Holberg (LimnoTech) 715-386-4062 hholmberg@limno.com Mark Hershfield (MPCA) 218-302-6633 marc.hershfield@state.mn.us	Special	This project will focus on the development of blueprints for delisting each of the nine beneficial use impairments (BUIs) for the AOC. Each blueprint will define the actions necessary to achieve delisting of the BUI and will include a list of prioritized action items and Remediation to Restoration (R2R) projects.	2011	\$206,098
Statewide	Minnesota Pollution Control Agency	Gaylen Reetz 651-757-2664 gaylen.reetz@state.mn.us	Technical Assistance	MPCA technical assistance provided to Clean Water Partnership grant program which provides funding for grants that prevent impairments and degradation of lakes, rivers, streams and groundwater.	2010	\$565,865
Statewide	Minnesota Pollution Control Agency	Gaylen Reetz 651-757-2664 gaylen.reetz@state.mn.us	Technical Assistance	This project supports activities by MPCA technical staff that provide technical assistance, project oversight, coordination and other agency activities associated with assessing, listing and conducting TMDL studies throughout the State of Minnesota. Project funding also includes lab analysis, equipment, and fieldwork expenses.	2010	\$4,408,520
Statewide	Minnesota Pollution Control Agency	Gaylen Reetz 651-757-2664 gaylen.reetz@state.mn.us	Technical Assistance	This project supports activities by MPCA technical staff that provide technical assistance, project oversight, coordination and other agency activities associated with assessing, listing and conducting TMDL studies throughout the State of Minnesota. Project funding also includes lab analysis, equipment, and fieldwork expenses.	2011	\$4,563,369
Statewide	Minnesota Pollution Control Agency	Gaylen Reetz 651-757-2664 gaylen.reetz@state.mn.us	Technical Assistance	This project supports agency operations to review civic engagement proposals from basin and sub basin organizations. Assistance provided to establish a coalition between organizations creating productive environments where citizens and stakeholders can come together to dialogue about issues of concern to them and create their own visions and strategies for TMDL-related change/issues in their communities.	2010	\$81,000
Statewide	Minnesota Pollution Control Agency	Gaylen Reetz 651-757-2664 gaylen.reetz@state.mn.us	Technical Assistance	This project supports agency operations to review civic engagement proposals from basin and sub basin organizations. Assistance provided to establish a coalition between organizations creating productive environments where citizens and stakeholders can come together to dialogue about issues of concern to them and create their own visions and strategies for TMDL-related change/issues in their communities.	2011	\$158,000
Statewide	Minnesota Pollution Control Agency	Gaylen Reetz 651-757-2664 gaylen.reetz@state.mn.us	Technical Assistance	This project will develop databases to manage TMDL activities and track progress. It will also provide assistance to promulgate rulemaking.	2010	\$500,000
Sibley	Sibley County	Ronald Otto 507-237-5435 ron.otto@sibleyswcd.org	TMDL	This project will provide administrative support to the CWP loan program. By initiating the CWP loan program in Sibley County it will provide low interest loans to bring 21 non-complaint or failing existing systems into compliance by replacing them with new single sewage treatment systems.	2010	\$9,770
Faribault	Faribault County	Michele Stindtman 507-526-2300 fcswcd@bevcomm.net	TMDL	This project will utilize a systematic approach to identify principal sources, or "hot-spots", of sediment contributions and work with individual landowners, county drainage officials, and municipalities to coordinate and implement critical Best Management Practices (BMP's), establish demonstration sites, and provide education and outreach efforts. This project will also establish baseline watershed data with the addition of site specific information, and determine high priority watersheds. Appropriate practices will be identified and mapped utilizing GPS and GIS equipment and software.	2010	\$250,000
Anoka	Rice Creek Watershed District	Doug Thomas 763-398-3070 dthomas@ricecreek.org	TMDL	This project will repair and upgrade the water control structure and provide water quality enhancement measures on Oasis Pond in Roseville, Minnesota. This project will also protect the quality of downstream receiving waters; specifically Lake Johanna, by reducing phosphorus pollutant loads.	2010	\$110,200
Meeker	Crow River Organization of Water	Diane Sander 763-682-1933 Ext. 3 diane.sander@mn.nacdn.net	TMDL	This project focuses on preventing and reducing sediment related turbidity problems throughout the Crow River Watershed and contains three main tasks; Best Management Practices (BMP's) installation, public outreach and administration.	2010	\$250,000
Nemadji River and Deer Creek	Carlton County Soil and Water Conservation District	Brad Matlack Carlton County SWCD 218-384-3891 Karen Evens (MPCA) 218-302-6644	TMDL	This project will result in the development of a total maximum daily load (TMDL) for turbidity for Deer Creek and the Nemadji River, and will also define which reaches of the Nemadji basin may be meeting standards for turbidity. It will also allow the Carlton County Soil & Water Conservation District (SWCD) to become a full and active partner in this TMDL study and implementation project as well as future restoration and protection projects.	2010	\$234,435

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Snake River	Snake River Watershed Management Board	Teresa Bearce Snake River WMB 320-679-6456 Chris Klucas (MPCA) 651-757-2498	TMDL	The Snake River Watershed Management Board (SRWMB), working in concert with other local governmental units in within the watershed, will assist the MPCA, the project consultant, and other members of the Snake River Watershed Total Maximum Daily Load (TMDL) technical team in the completion of tasks associated with this TMDL project. SRWMB, with assistance from members of the technical team (Kanabec Soil and Water Conservation District (SWCD), Pine SWCD, Aitkin SWCD, and Mille Lacs SWCD) will provide the services to complete this TMDL project.	2010	\$171,766
North Fork Crow River	Crow River Organization of Water	Diane Sander Crow River Organization of Water 763-682-1933 Margaret Leach (MPCA) 218-316-3895	TMDL	Upper Mississippi, North Fork Crow River Major Watershed TMDL Project led by CROW with assistance from local partners North Fork Crow River Watershed District (WD); Middle Fork Crow River WD; Wright Soil and Water Conservation District (SWCD).	2011	\$300,000
Long Prairie River	AECOM, Inc.	Roger Clay AECOM, Inc. 763-852-4200 Jim Courneya (MPCA) 218-846-8105	TMDL	Phase 4 of the Lake Winona Total Maximum Daily Load (TMDL) project will finalize the draft Lake Winona TMDL, dated November 2009, by completing additional data analysis, lake quality modeling, updating the TMDL report, and supporting the public involvement process.	2011	\$35,000
St. Croix River (Stillwater)	Chisago Soil and Water Conservation District	Craig Mell Chisago SWCD (651) 674-2333 Chris Klucas (MPCA) 651-757-2498	TMDL	TMDL project in the Chisago Lakes Lake Improvement District that will develop a watershed based plan and provide strategies for water quality and aquatic ecosystem management, restoration, and protection within Sunrise River Watershed. This project will also aid in understanding the Phosphorus loading to Lake St. Croix.	2011	\$196,600
St. Croix River (Stillwater)	Washington Conservation District	Jay Riggs Washington Conservation District 651-275-1136 Chris Klucas (MPCA) 651-757-2498	TMDL	Continued TMDL project to support next phases associated with completion of TMDL's for ten lakes in the Carnelian Marine Saint Croix Watershed District (CMSCWD). Ten lakes are; East Boot, Fish, Goose, Hay, Jellum's, Long, Loon, Louise, Mud and South Twin.	2011	\$103,598
Mississippi River	Vadnais Lake Area Watershed Management Organization (VLAWMO)	Stephanie McNamara VLAWMO 651-204-6073 Barb Peichel (MPCA) 651-757-2646	TMDL	The VLAWMO watershed covers approximately 25 square miles in the northeast metropolitan area in northern Ramsey County and a small portion of Anoka County, Minnesota. It encompasses the City of North Oaks and portions of the Cities of White Bear Lake, Gem Lake, Vadnais Heights, Lino Lakes, and White Bear Township. This project will gather and organize existing data, support the continuation of modeling and TMDL allocation steps with an additional	2011	\$40,000
Root River	Fillmore County Soil and Water Conservation District	Donna Rasmussen Fillmore County SWCD 507-765-4415 Shaina Keseley (MPCA) 507-280-5513	TMDL	TMDL project in the Root River Watershed that will support surface water assessment, analysis of data, interpretation of southeast Minnesota's karst landscape, stressor identification, TMDL computation, source assessment, and implementation planning.	2011	\$319,700
Statewide	United States Geological Survey (USGS)	Christopher Ellison USGS 763-783-3121 Greg Johnson (MPCA) 651-757-2471	TMDL	This project will collect specific data for streamflow, cross-sectional suspended sediment concentration (SSC), and point samples of SSC, turbidity, and water transparency at selected stream sites in Minnesota.	2011	\$150,000
Mississippi River (Sartel), Mississippi River (St. Cloud)	Benton Soil and Water Conservation District	Gerry Maciej (Benton SWCD) 320-968-5300 Ext. 3 gerry@soilandwater.org Maggie Leach (MPCA) 218-316-3895	TMDL	This project will determine the magnitude and sources of pollutants in Little Rock Creek and will estimate the reductions in loadings that are needed in order for the stream reaches to support cold water fish assemblages and attain water quality standards.	2011	\$75,000
Rainy River Headwaters	Lake County Soil and Water Conservation District	Wayne Seidel Lake County SWCD 218-834-8378 Joel Peterson (MPCA) 218-302-6646	TMDL	This project will gather watershed data necessary for the development of a comprehensive watershed management plan with parameter-specific thresholds that will maintain or improve water quality for the Kawishiwi Watershed.	2011	\$225,000
Lake of the Woods	United States Geological Survey (USGS)	James Fallon USGS 763-783-3255 Cary Hernandez (MPCA) 218-846-8124	TMDL	This project will support the collection of water-quality samples and gauge streamflow near the mouths of the Rainy and Warroad Rivers; collect water-quality samples at 10 sites in LOW; and measure streamflow velocities and cross-sectional areas of 5 channel constrictions in LOW.	2011	\$796,400
Mississippi River (Red Wing) (Winona) (La Crescent) (Reno), Cannon River, Zumbro River, Root River, Upper Iowa River	University of Minnesota	E. Calvin Alexander, Jr. University of Minnesota 612-624-3517 Justin Watkins(MPCA) 507-280-5513	TMDL	This project will identify and compile existing nitrate data from groundwaters and surface waters in the Lower Mississippi Basin (LMB) generally and focus on the Root River Watershed. The purpose is to investigate the quantity and quality of existing nitrate data, and to organize it for use in comprehensive watershed strategy development (including assessment, TMDL computation and identification and study of nitrate sources and delivery mechanisms).	2011	\$33,414
Snake River	Kanabec County Soil and Water Conservation District	Kelly Osterdyk Kanabec County SWCD 320-679-3781 Ext. 113 Chris Klucas (MPCA) 651-757-2646	TMDL	This project will be a complete TMDL report for the Biota and Bacteria (E. coli) impairments for the Ann River Watershed. The water bodies associated with these impairments will then be removed from the MPCA's impaired waters list, and implementation activities to restore the water bodies will begin.	2011	\$112,265

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Le Sueur River	Minnesota Department of Agriculture (MDA)	Gregg Regimbal Minnesota Department of Agriculture 651-201-6671 Scott MacLean (MPCA) 507-344-5250	TMDL	This project will complete a Acetochlor Impairment Response Report. This report will combine and coordinate information relating to actions being done in direct response to the (No Suggestions) water quality impairments with those being done and support MDA's on-going responsibility to assure pesticides are used in a manner that does not cause unreasonable adverse effects on the environment.	2011	\$58,360
St. Croix River (Stillwater)	Science Museum of Minnesota-St. Croix Watershed Research Station	Dan Engstrom Science Museum of Minnesota 651-433-5953 Chris Klucas (MPCA) 651-757-2498	TMDL	This project will be apply the Sunrise River watershed computer model generated under previous projects to selected scenarios of land-cover and land-management changes. The watershed model calibrated to conditions in the late 1990s will form the initial baseline against which all other model runs will be contrasted. Scenarios to be run will include changes in future land cover, agricultural practices, urban practices, and natural resource management.	2011	\$50,000
Root River	University of Minnesota	Tony Runkel Minnesota Geological Survey 612-627-4780 ext. 222 runke001@umn.edu	TMDL	This project is one of several that comprise various components of the <i>Root River Watershed Approach</i> . This project will support a better understanding of the geologic controls on nitrate transport in southeast Minnesota's karst landscape and will also provide datasets for other projects over time.	2011	\$73,563
Minnesota River (Shakopee)	Barr Engineering Company	Barb Piechel (MPCA) 651-757-2646 Barbara.peichel@state.mn.us	TMDL	This TMDL project will develop a TMDL Report and Implementation Plan defining the sources contributing to the impairments and outlining the steps necessary to bring Bluff Creek back to meeting water quality standards.	2011	\$34,339
Sauk River, North Fork Crow River, South Fork Crow River	RESPEC	Charles Regan (MPCA) 651-757-2866 chuck.regan@state.mn.us	TMDL	This project will support construction of three watershed framework models built using the Hydrologic Simulation Program FORTRAN (HSPF). These executable models will simulate hydrology at the 12-digit HUC subbasin scale. An HSPF model will be built for each of the 8-HUC watersheds: Crow River/North Fork Crow River (07010204), South Fork Crow River (07010205), and the Sauk River (07010202).	2011	\$96,618
St. Croix River (Stillwater)	Emmons and Olivier Resources, Inc. (EOR)	Chris Klucas(MPCA) 651-757-2498 Christopher.klucas@state.mn.us	TMDL	This project will provide modeling services to support the completion of Typo Lake and Martin Lake Excess Nutrients TMDL report.	2011	\$6,911
Statewide	University of Minnesota	David J. Mulla (U of M) 612-625-6721 mulla003@umn.edu	TMDL	This project will promulgate a nitrate water quality standard to address aquatic life toxicity, and gather information needed to support the development of total nitrogen (N) loading reduction strategies for Minnesota's waters and also address Minnesota's contribution to marine water hypoxia.	2011	\$74,000
Statewide	Freshwater Society	Brooke Asleson (MPCA) 651-757-2205 brooke.asleson@state.mn.us	TMDL	This project will provide support for the 10th Annual Road Salt Symposium at the Minnesota Landscape Arboretum. The symposium brings together environmental organizations, companies that produce winter road de-icing salts and chemicals, scientists, policy-makers and transportation workers. They Symposium provides information on chlorides in our waters and provides innovative and new approaches to help repair our waters and sustain our resources for future generations.	2011	\$500
Mississippi River (Headwaters), Leech Lake River, Crow Wing River, Pine River, Mississippi River (Grand Rapids), Mississippi River (Brainerd), Redeye River, Sauk River, Mississippi River (Sartell), Mississippi River (St. Cloud), Rum River, Mississippi River, North Fork Crow River, South Fork Crow River, Long Prairie River	Emmons and Olivier Resources, Inc. (EOR)	Barb Peichel (MPCA) 651-757-2646 Barbara.Piechel@state.mn.us	TMDL	This project will provide the monitoring of reaches where there are data gaps, incorporate new data and analyze relevant data, identify pollutant sources, hold a stakeholder meeting, and gather information towards the future development of a Draft Restoration (TMDL) and Protection Plan (Plan).	2011	\$53,000
Crow Wing River, Redeye River, Long Prairie River	AQUA TERRA Consultants	Charles Regan (MPCA) 651-757-2866 chuck.regan@state.mn.us	TMDL	This project will support construction of three watershed framework models built using the Hydrologic Simulation Program FORTRAN (HSPF). These executable models will simulate hydrology at the 12-digit HUC subbasin scale. An HSPF model will be built for each of the 8-HUC watersheds: Crow Wing River (07010106), Redeye River (07010107), and Long Prairie River (07010108).	2011	\$99,950
Mississippi River (Twin Cities)	Ramsey-Washington Metro Watershed District	Cliff Aichinger (RWMWD) 651-792-7950 Brooke Asleson (MPCA) 651-757-2205 brooke.asleson@state.mn.us	TMDL	This project will provide the MPCA and RWMWD the information and tools necessary to improve water quality in Battle Creek Lake, Beaver Lake, Carver Lake, Keller Lake and Wakefield Lake through targeted phosphorus reduction activities throughout the watershed.	2011	\$121,000
Crow Wing River	Wadena Soil and Water Conservation District (SWCD)	Kari Tomperi (Wadena SWCD) 218-631-3195 kari.tomperi@mn.nacdn.net Bonnie Finnerty (MPCA) 218-316-3897 bonnie.finnerty@state.mn.us	TMDL	This project will provide Stressor ID work and assistance for the development of a work plan for the Major Watershed Project, which will include a civic engagement and outreach strategic plan, through the partnership and assistance of ten Local Government Units (LGU) from the Crow Wing River Watershed.	2011	\$30,000

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Zumbro River Watershed	Zumbro Watershed Partnership	Justin Watkins (MPCA) 507-206-2621 justin.watkins@state.mn.us	TMDL	This project will complete an implementation plan, as required by the MPCA, in anticipation of EPA's approval of the turbidity TMDL, and revise the Zumbro River Watershed Management Plan (completed 2007) to ensure it continues to reflect local needs, incorporates new information, and develops more effective linkages with related local, state and federal government programs.	2011	\$58,218
Stearns	Sauk River Watershed District	Lynn Nelson 320-352-2231 lynn@srwdmn.org	TMDL	This project will continue the restoration of Osakis Lake and protect the water quality of the Sauk River by addressing stormwater runoff from urban and rural areas. Activities include assisting eight landowners in designing and funding their shoreland restoration and rain garden projects.	2011	\$86,542
Wright, Meeker	Crow River Organization of Water	Diane Sander 763-682-1933 Ext. 3 diane.sander@mn.nacdn.net	TMDL	This project will promote positive land use changes, along with a sense of watershed stewardship and awareness throughout the Crow River Watershed. This project contains three main tasks: BMP installation, public outreach and administration. This project will also work with the Big Swan Lake Association in Meeker County to host a shoreline naturalization workshop.	2011	\$495,911
Anoka	Coon Creek Watershed District	Tim Kelly 763-755-0975 tkelly@cooncreekwd.org	TMDL	This project will reduce nutrient loadings to Sand Creek from the neighborhoods which are the greatest contributors. Project activities include the installation of a new stormwater pond and a network of 10 strategically-placed curb-cut rain gardens.	2011	\$83,650
Stearns	Sauk River Watershed District	Lynn Nelson 320-352-2231 lynn@srwdmn.org	TMDL	This project will address stormwater runoff concerns and erosion issues along the Sauk River. Activities include conducting two education events on "Backyard BMP's"; installing two demonstration projects and conducting four education events in association with these projects; designing and installing five rain gardens; designing and installing twenty "Backyard BMP's"; assisting in the design and installation of five urban stormwater management and restoration projects; installing one erosion control project and completing three additional land use projects for sediment and nutrient loss; collecting water quality samples and other information to determine the effectiveness of the implemented BMPs.	2011	\$235,000
Laq qui Parle	Laq qui Parle-Yellow Bank Watershed District	Mary Homan 320-598-3319 mary.homan@lqpc.co.com	TMDL	This project will install buffer strips along 25 miles of ditches in the watershed, replace 50 open tile intakes, and hold workshops in the watershed to increase conservation tillage, nutrient and pesticide management, conservation drainage and restoring wetlands.	2011	\$141,850
Anoka	Rice Creek Watershed District	Kyle Axtell 763-398-3070 kaxtell@ricecreek.org	TMDL	This project will support the design and construction of three rain gardens to intercept and infiltrate stormwater runoff near the Fridley Middle School.	2011	\$86,210
Stearns	Sauk River Watershed District	Lynn Nelson 320-352-2231 lynn@srwdmn.org	TMDL	This project will educate the local residents of the importance of groundwater protection and provide financial assistance to those who need to properly abandon their unused well. This project will also support the upgrade of nonconforming sewage treatment systems to reduce nutrient contributions to groundwater and surface water through groundwater permeation.	2011	\$40,000
St. Croix River (Stillwater)	Chisago Soil and Water Conservation District	Craig Mell Chisago SWCD (651) 674-2333 Chris Klucas (MPCA) 651-757-2498	TMDL	The Sunrise Watershed is a high priority subwatershed of the St. Croix River. Chisago County, the United States Army Corps of Engineers (ACOE), the MPCA and several additional cooperators will complete a study of the Sunrise River Watershed. The goal of the study is to develop a watershed based plan and strategies for water quality and aquatic ecosystem management, restoration and protection. Once completed, the study will provide input to the development of the TMDL and Watershed Restoration and Protection Plan for the Sunrise Watershed.	2011	\$199,755
Minnesota River (Mankato)	Minnesota State University-Mankato	Dr. Shannon Fisher (MSU-Mankato) 507-389-5492 shannon.fisher@msu.edu	TMDL	This project will quantify and qualify the effectiveness of herbicide treatments and native plant re-establishment at Duck Lake through systematic vegetative surveys pre and post herbicide application and following mid-summer die-off of curly-leaf pondweed. The data and analysis will ultimately be used in the development of TMDLs, implementation and protection strategies for other lakes in the Middle Minnesota Major Watershed.	2011	\$17,949
Buffalo River	Buffalo-Red River Watershed District	Bruce Albright (BRRWD) 218-354-7710 brwd@bvillemn.net	TMDL	The Buffalo River Watershed Pilot Project is one of two pilots in Minnesota designed to develop a watershed approach for managing Minnesota's surface waters. The goal of this project is to develop a plan that will guide surface water quality management throughout the watershed.	2011	\$249,968
Lake of the Woods	University of Minnesota-Natural Resources Research Institute (NRRI)	Euan D. Reavie (NRRI) 218-235-2184 ereavie@nrri.umn.edu Cary Hernandez (MPCA) 218-846-8124 cary.hernandez@state.mn.us	TMDL	This project will determine pre- and post-settlement nutrient trends from sediment chronology, fossil diatom assemblages, and from sediment profiles representing human history in the region (i.e., at least 150 years). Project activities include sample collection; sample preparation; diatom analysis; database creation and management; and data interpretation. Sample cores will be taken on the Lake of the Woods in five major bays (i.e., Four-mile, Muskeg, Sabaskong, Little Traverse, and Big Traverse) in the southern basin.	2011	\$72,461
Pomme de Terre River	Stevens Soil and Water Conservation District	Brett R. Arne (Stevens SWCD) 320-589-4886 ext. 109 brett.arne@stevenswcd.org	TMDL	This project will quantify the reductions in pollutant loading that would be necessary to bring the impaired stretches back to an acceptable level. It will also identify strategies that would improve water quality in these impaired stretches. Some funds will support public input activities into the Pomme de Terre River watershed management plan."	2011	\$132,120
Carlton, Cook, Koochiching, Lake, St. Louis	Minnesota Department of Natural Resources	Elaine Johnson (MDNR) 651-259-5999	TMDL	The Minnesota Department of Natural Resources will coordinate the collection of high-resolution elevation data for northeastern portion of Minnesota using Light Detection and Ranging (LIDAR) systems. The geographic area of the work includes Minnesota counties of Carlton, Cook, Lake, and St. Louis Counties and that portion of Koochiching County that comprises Voyageurs' National Park.	2011	\$140,000

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Nemadji River	Barr Engineering Company	Greg Wilson Barr Engineering Company 952-832-2672 gwilson@barr.com Karen Evens (MPCA) 218-302-6644 karen.evens@state.mn.us	TMDL	This project will complete a thorough data review and diagnostic analysis, calculate the TMDL equation and required allocations and reductions. It will also collect any additional data needed for stream channel modeling scenarios.	2011	\$26,413
Crow Wing River	Wadena Soil and Water Conservation District	Kari Tomperi Wadena (SWCD) 218-631-3195 kari.tomperi@mn.nacdn.net	TMDL	This project will initiate project coordination among project partners. It will enhance civic engagement and outreach endeavors activities to support Phase 2 of TMDL project. It will also support field activities associated with stressor ID work.	2011	\$30,000
Le Sueur River	Minnesota State University-Mankato	Scott Kudelka (MSU-Mankato) 507-389-5492 scott.kudelka@mnsu.edu	TMDL	This project will initiate the process of community engagement in the LeSueur River watershed by assessing the needs and interests of the community and bringing a diverse set of stakeholders together to determine how best to foster action in improving and protecting water quality.	2011	\$137,787
Le Sueur River	Greater Blue Earth River Basin Alliance	Kay Clark (GBERBA) 507-831-1153 ext. 3	TMDL	This project will identify priority management zones (PMZ), for the purposes of water quality restoration and protection, within the LeSueur River major watershed. This project is only one component of a larger effort in the LeSueur watershed to complete Total Maximum Daily Load (TMDL) studies while engaging citizens and landowners in land management planning.	2011	\$105,196
Cedar River	Mower County Soil and Water Conservation District	Bev Nordby (Mower SWCD) 507-434-2680 bev.nordby@mowerswcd.org	TMDL	This project will build upon existing planning and implementation efforts already taken on in the project area. The collection of existing information will be used to complement water information in support of a more successful and sustainable water quality improvement and protection implementation program. This will be achieved by active civic engagement activities throughout Phase I of this project.	2011	\$182,020
Mustinka River	Bois de Sioux Watershed District	Jon Roeschlein Bois de Sioux Watershed District 218-746-8110 bdswd@frontiernet.net	TMDL	This project will develop a watershed approach plan, including impaired waters allocations, for the Mustinka Watershed, located at the headwaters of the Red River of the North, in western Minnesota, lying partly in Grant, Stevens, Ottertail, Big Stone, and Traverse counties. The watershed approach plan will set water quality goals for the watershed, recommend allocations for achieving total maximum daily loads where waters do not meet state standards and are listed as impaired.	2011	\$150,000
Lower St. Croix River	Randy S. Ferrin	Chris Klucas (MPCA) 651-757-2498 Christopher.klucas@state.mn.us	TMDL	The Contractor will assist in planning and executing the regular meetings of the St. Croix River Basin Team, including providing minutes of the meetings. Assist in the functioning of the priority issue subcommittees. Respond to public notices for re-issuances of NPDES permits, EAWs and other pertinent public notices, and participate in prioritized public meetings with local governmental units and water planning organizations.	2011	\$4,997
Lower St. Croix River	LimnoTech	Hans Holberg (LimnoTech) 715-386-4062 hholmberg@limno.com Chris Zadak (MPCA) 651-757-2837 Chris.Zadak@state.mn.us	TMDL	This project will develop an Implementation Plan for restoring Lake St. Croix and impaired waters within the contributing watershed, and protect waters currently attaining water quality standards.	2011	\$49,980
Lower Minnesota River	Barr Engineering Company	Greg Wilson Barr Engineering Company 952-832-2672 gwilson@barr.com Barb Peichel (MPCA) 651-757-2646 barbara.peichel@state.mn.us	TMDL	This project will develop a Final TMDL report and Implementation Plan for the Bluff Creek Watershed. The main outcomes of this project are the development of a Final TMDL Report approved by MPCA and EPA and a Final Implementation Plan approved by MPCA.	2011	\$18,020
Mississippi River (Twin Cities)	Wenck Associates, Inc.	Rebecca Kluckhohn Wenck Associates, Inc. 763-479-4224 rkluckhohn@wenck.com Chris Zadak (MPCA) 651-757-2837 Chris.zadak@state.mn.us	TMDL	This project will develop a watershed restoration plan that provides quantitative pollutant load reduction estimates and a set of pollutant reduction and watershed management strategies to achieve water quality standards for all impairments within the watershed. It will also an important framework for civic and citizen engagement and communication, which will contribute to long-term public participation in surface water protection and restoration activities throughout the watershed.	2011	\$146,988
Statewide	University of Minnesota	Dale Setterholm Minnesota Geological Survey 612-627-4780 ext. 223 sette001@umn.edu	TMDL	This project will develop a surficial geology shapefile (map) for part of the State of Minnesota, by modifying and joining smaller existing, but separate, surficial geology maps. The resulting internally consistent geographic information system (GIS) layer will be used to support the hydrologic parameterization of Minnesota Pollution Control Agency (MPCA) watershed models.	2011	\$44,994
Sauk River, Mississippi River (Sartell), Mississippi River (St. Cloud), Mississippi River (Twin Cities), Rum River, South Fork Crow River, Lower MN River	Emmons and Olivier Resources, Inc. (EOR)	Barb Peichel (MPCA) 651-757-2646 barbara.peichel@state.mn.us Phil Votruba (MPCA) 218-316-3901 phil.votruba@state.mn.us	TMDL	This project will support the monitoring reaches where there are data gaps, incorporate new data and relevant data, continue identification of pollutant sources, complete load duration curves, coordinate and encourage participation in stakeholder meetings. The information gathered during Phase IIB will be utilized towards the development of a Draft Restoration (TMDL) and Protection Plan (Plan).	2011	\$95,999

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Big Fork River, Little Fork River	RESPEC	Charles Regan (MPCA) 651-757-2866 chuck.regan@state.mn.us	TMDL	This project will construct, calibrate, and validate two HSPF watershed models. The consultant will produce HSPF models that can readily be used to provide information to support conventional parameter Total Maximum Daily Load (TMDLs) at the Big Fork River and Little Fork River watersheds.	2011	\$174,579
Sauk River, North Fork Crow River, South Fork Crow River	RESPEC	Charles Regan (MPCA) 651-757-2866 chuck.regan@state.mn.us	TMDL	This project will finalize HSPF watershed model construction and complete the calibration/validation process for the following three watersheds: North Fork Crow River, South Fork Crow River, and Sauk River.	2011	\$149,677
Pomme de Terre River, Redwood River, Cottonwood River, Watonwan River, Le Sueur River, Blue Earth River, Minnesota River-Mankato, Lower Minnesota River, Red River of the North-Sandhill River	RESPEC	Charles Regan (MPCA) 651-757-2866 chuck.regan@state.mn.us	TMDL	This project will complete spatial and temporal revisions of 6 HSPF models, the recalibration and validation of 7 watershed HSPF models, and the revision of the drainage network and point source representation of the Pomme de Terre HSPF model.	2011	\$214,963
Mustinka River, Bois de Sioux River	Emmons and Olivier Resources, Inc. (EOR)	Mike Vavricka (MPCA) 218-846-8137 michael.vavricka@state.mn.us	TMDL	This project will complete the development of two watershed HSPF models for the Mustinka River and Bois de Sioux River watersheds. These calibrated and validated executable models will simulate hydrology at the 12-digit HUC subbasin scale.	2011	\$135,000
Chippewa River	Emmons and Olivier Resources, Inc. (EOR)	Tim James (MPCA) 218-846-8103 tim.james@state.mn.us	TMDL	This project will develop feasibility analysis, a drawdown plan for Malmedal Lake and an analysis of available options for fish barriers in the watersheds of Malmedal Lake and Strandness Lake.	2011	\$25,443
Red Lake River	Red Lake Watershed District (RLWD)	Corey Hanson (RLWD) 218-681-5800 coreyh@wktel.com Jim Courneya (MPCA) 218-846-8105 jim.courneya@state.mn.us	TMDL	This project Phase will collect data, background information, and watershed characteristics within the Red Lake River watershed. This information will be documented within the framework of early draft TMDL Reports (with background information, but no load calculations) for impaired reaches within this watershed and early draft protection plans for the areas in the watershed that are not currently impaired.	2011	\$150,000
Sauk River	Sauk River Watershed District	Lynn Nelson (Sauk River WD) 320-352-2231 lynn@srwdmn.org Greg Van Eckhout (MPCA) 218-316-3896 greg.vaneckhout@state.mn.us	TMDL	This project will complete an assessment of watershed lakes and streams. The assessment will include biological and stressor id analysis, which will support a summary report on lake conditions and protection strategies for lakes included in this watershed study.	2011	\$61,540
Lake of the Woods	Lake of the Woods Soil and Water Conservation District	Josh Stromlund (LOW) 218-634-1945 josh_s@co.lake-of-the-woods.mn.us Cary Hernandez (MPCA) 218-846-8124 cary.hernandez@state.mn.us	TMDL	This project will support the collection and analysis of sediment core samples, from each of the five bays (Little Traverse, Big Traverse, Muskeg, Sabaskong and 4-Mile Bays), to ensure adequate characterization of the P fluxes from deposited sediment and equilibrium P fluxes from re-suspended sediment.	2011	\$31,714
Chippewa River	Chippewa County	Kylene Olson (Chippewa Cty) 320-269-2139 ext. 116 kylene@chippewariver.org Joseph Hauger 507-476-4273 joseph.hauger@state.mn.us	TMDL	This project will complete a comprehensive and sustainable Major Watershed Restoration and Protection Strategies report for the Chippewa River, its tributary streams, and the many lakes in the Chippewa River watershed that is understandable and adoptable by local units of government and residents.	2011	\$286,113
Sand Hill	Sand Hill River Watershed District	Dan Wilkins (SHRWD) 218-945-3213 shrwd@gytel.com Cary Hernandez (MPCA) 218-846-8124 cary.hernandez@state.mn.us	TMDL	This first phase of project will define the existing watershed conditions; identify gaps in existing data; design and implement a plan to address data gaps; incorporate gap data into watershed description; guide development of the HSPF model; establish citizen advisory, technical advisory and locally-based focus groups; research and design an education and outreach strategy; and design and deploy the tools and methods to employ the strategy.	2011	\$178,139
Mississippi River, Mississippi River (Red Wing), St. Croix River (Stillwater), Rum River, Minnesota River (Shakopee), North Fork Crow River, South Fork Crow River	LimnoTech	Hans Holmberg, P.E. (LimnoTech) 715-386-4062 hholmber@limno.com Brooke Asleson (MPCA) 651-757-2205 brooke.asleson@state.mn.us	TMDL	This project will complete a chloride management plan which will lay out a strategy for addressing chloride impacts to our surface waters for the 7-county metropolitan area. This chloride management plan will satisfy EPA requirements for impaired waters, address waters not yet listed, and develop a strategy to protect waters that are currently meeting the water quality standards.	2011	\$50,240

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Mississippi River, Mississippi River (Red Wing), St. Croix River (Stillwater), Rum River, Minnesota River (Shakopee), North Fork Crow River, South Fork Crow River	Fortin Consulting	Connie Fortin (Fortin Consulting) 763-478-3606 connie@fortinconsulting.com Brooke Asleson (MPCA) 651-757-2205 brooke.asleson@state.mn.us	TMDL	This project will provide the MPCA and all local partners in the Twin Cities Metropolitan Area (TCMA) the information and tools necessary to improve and/or maintain water quality with respect to chloride for the 7-county metropolitan area during the winter maintenance period.	2011	\$63,946

Appendix C: Funded projects, 2012-2013

This listing represents all project contracts executed as of January 4, 2012. As additional contracts are executed, an updated version of this spreadsheet will be posted at www.pca.state.mn.us/aj0r3d5.

This information represents contracts executed by the MPCA as of the date of this publication. The projects do not describe the split between counties involved in any project as projects are funded by watershed or areas and not by shared county boundaries. The project costs do not include the match by local entities, so they are not necessarily total project costs.

County/Watershed	Awarded Organization	Awarded Project Contact or MPCA Project Manager	Project Type	Project Summary	State Fiscal Year	CWF Awarded
Snake River	Wenck Associates, Inc.	Joe Bischoff (Wenck) 763-479-4229 jbischoff@wenck.com Chris Klucas (MPCA) 651-757-2498 christopher.klucas@state.mn.us	TMDL	This phase of the project will complete a TMDL for the impaired reaches of the Snake River Basin. The project includes development of a Unit Area Load model for nutrient sources, a spreadsheet version of a BATHTUB lake response for four lakes, and a bacteria source assessment. Contractor will also provide all stream channel data as a spreadsheet database and in GIS.	2012	\$133,904
Long Prairie River	Wenck Associates, Inc.	Joe Bischoff (Wenck) 763-479-4229 jbischoff@wenck.com Greg VanEckhout (MPCA) 218-316-3896 ggreg.vaneckhout@state.mn.us	TMDL	This project will complete a final TMDL document that will be submitted to EPA for approval. Document will include Lake Osakis, Clifford Lake, Faille Lake, and Smith Lake impairments. A final technical memorandum describing the elements of the model framework and any deviations from the recommended construction methodology will be also be provided with the submission of the watershed models.	2012	\$29,872
Statewide	Widseth Smith & Nolting	Sharon Kroening (MPCA) 651-757-2507 sharon.kroening@state.mn.us	Special	Contractor assistance with site selection, reconnaissance and obtaining access for installation of ambient groundwater monitoring wells in northcentral and northeastern Minnesota. This project will provide services and oversight of the installation for up to 31 well sites.	2012	\$177,052
Statewide	Peer Engineering	Sharon Kroening (MPCA) 651-757-2507 sharon.kroening@state.mn.us	Special	Contractor assistance with site selection, reconnaissance and obtaining access for installation of ambient groundwater monitoring wells in Ramsey county and Hennepin county. This project will provide services and oversight of the installation for up to 16 well sites.	2012	\$72,000
Statewide	United States Geological Survey (USGS)	Carol L. Sinden (MPCA) 651-757-2727 carol.sinden@state.mn.us	Monitoring	USGS will make streamflow discharge measurements at lowflow measuring stations throughout the state. Measurements will be made during lowflow conditions. On average 100 measurements will be made during FY2012. Stream flow measurements will be entered into the USGS database and made available on the USGS Low Flow Data for Minnesota Streams website.	2012	\$6,289
Lake of the Woods	United States Geological Survey (USGS)	James Fallon (USGS) 763-783-3255 Cary Hernandez (MPCA) 218-846-8124	Monitoring	This project will support the operation and maintenance of a stream gage that records stage, index-velocity and water temperature at Wheeler's Point on the Rainy River. The USGS will visit the stream gage approximately every six (6) weeks to perform maintenance and, as needed, to define the range of flows that occur.	2012	\$9,420
Statewide	University of Minnesota	David J. Mulla (U of M) 612-625-6721 mulla003@umn.edu	TMDL	This project will promulgate a nitrate water quality standard to address aquatic life toxicity, and gather information needed to support the development of total nitrogen (N) loading reduction strategies for Minnesota's waters and also address Minnesota's contribution to marine water hypoxia. Project will also develop a framework for a watershed nitrogen planning aid that can be used to optimize selection of Best Management Practice (BMP) systems for reducing nitrogen.	2012	\$78,042
Statewide	United States Geological Survey (USGS)	David L. Lorenz (USGS) 763-783-5133100 Lorenz@usgs.gov	TMDL	This project will provide an interpretive assessment of nitrogen concentrations in Minnesota rivers and streams, including spatial and temporal trends based on historical data sets. The trends analyses will provide information useful for evaluating nitrogen reduction efforts in the past couple of decades.	2012	\$44,998
Long Prairie River	Douglas Soil and Water Conservation District	Emily Siira (Douglas SWCD) 218-346-3897 emily.siira@mn.nacdn.net Bonnie Finnerty 320-763-3191 bonnie.finnerty@state.mn.us	TMDL	This project will gather watershed data to support the development of a Watershed Restoration and Protection Strategy with parameter-specific targets that will maintain or improve water quality for the Long Prairie River Watershed. This project will also provide an important framework for civic and citizen engagement and communication, contributing to long-term public participation in surface water protection and restoration activities throughout the watershed.	2012	\$78,450
Nemadji River	Carlton County Soil and Water Conservation District	Kirstin Stutzman (Carlton County SWCD) 218-384-3891 Kirstin.stutzman@carltonswcd.org Stacia Grayson 218-302-6631 stacia.grayson@state.mn.us	Monitoring	This project will support Minnesota's condition monitoring strategy through the collection of water quality data on streams and rivers in the Nemadji River watershed. The Nemadji River watershed is located in southeastern Carlton County and northeastern Pine County. Water quality samples will be collected primarily during weather-related events that affect stream flow such as snowmelt and rainfalls.	2012	\$70,055