



**ANOKA CONSERVATION
DISTRICT**

2011 ANNUAL PLAN

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AN INVITATION FROM THE CHAIR

Mary Jo Truchon

We are happy to invite you to review the 2011 Annual Plan of the Anoka Conservation District. Thank you very much for your interest in our activities. The Board of Supervisors and ACD staff are dedicated to providing the services necessary to complete the goals of the Annual Plan. We continue to strive to improve delivery of these services. We have actively promoted our programs, worked closely with other environmental and government agencies and sought training to assist us in doing a better job.

Anoka Conservation District adopted the following mission statement:

We conserve and enhance the natural resources of Anoka County.

We do this by:

- *informing and assisting landowners and local governments in natural resource management, and*
- *promoting stewardship practices for soil and water conservation, and*
- *conducting research and monitoring.*

We have prioritized our activities to coincide with our mission statement and aligned District goals and objectives to fulfill that mission.

ACKNOWLEDGEMENTS

The Anoka Conservation District Board of Supervisors would like to extend their sincere appreciation to the following agencies and individuals for their assistance throughout the year.

ANOKA COUNTY BOARD OF COMMISSIONERS.

Our sincere appreciation goes to the Anoka County Board of Commissioners. In 2011 the Commissioners are:

District 1	Matt Look
District 2	Andy Westerberg
District 3	Robin West
District 4	Jim Kordiak
District 5	Carol LeDoux
District 6	Rhonda Sivarajah
District 7	Dan Erhart

It is the continued financial support of Anoka County that enables the District to manage and direct the programs protecting Anoka County's environmental assets.

ANOKA COUNTY DEPARTMENTS

Several Anoka County departments provide ACD with the benefit of their expertise in complex matters. Their professionalism and diligence is greatly appreciated.

Payroll

Jerry Hennek, Mary Anderson, Cassandra Bologna, Cheryl Peloquin, and Candace Handapangoda

Parks

John VonDeLinde, Jeff Perry and Tim Sevcik

Risk Management

John Sullivan, Bill Keller, Cheryl Alberts

Attorney's Office

Tom Haluska, Pam McCabe and Dan Klint

Human Resources

John Sprague and Melanie Ault

Environmental Services

Marina "Rina" McManus, Spencer "Spence" Pierce, Jon Christensen and Bart Biernat

NATURAL RESOURCES CONSERVATION SERVICE

The ACD appreciates the continued support, technical assistance and training provided by the Natural Resources Conservation Service (NRCS). District Conservationist Mary Monte deserves special thanks for assisting Anoka County's agricultural producers. Our appreciation is extended to State Conservationists Bill Hunt for financial support from the USDA NRCS to fund the landscape restoration specialist positions currently serving the eleven county metro area from our office.

INTRODUCTION

2011 begins the 66th year of operation for the Anoka Conservation District (ACD). During this time the District has developed programs and applied technology to address natural resource issues. Originally, the main responsibility of soil and water conservation districts was to control soil and water erosion caused by runoff and wind. Changing land uses have expanded those responsibilities to encompass a broad spectrum of conservation and natural resource practices. The District strives to provide an overall program of well-rounded conservation services to Anoka County residents.

Each conservation district analyzes resource needs and issues to develop an inventory for planning purposes. Erosion, pollution, soil limitations, land capabilities, water supplies, forestry, development trends, wetlands and wildlife habitats are considered in the planning process. The annual plan outlines what measures need to be implemented to improve present conditions and address future needs.

The annual plan is the written directive for achieving the goals set forth in the Comprehensive Plan. It contains plans and procedures that will be followed in the upcoming year to attain the main objectives of the ACD. The document outlines a plan of work with respect to the natural resources of Anoka County and how legislative actions, funding, staffing, public interest and growth affect them.

For the most part ACD will focus on continuing the successful programs and services developed in prior years. There are, however, some noteworthy initiatives underway. ACD will continue to seek funding from the Clean Water Land and Legacy Act for the Metro Conservation Districts Landscape Restoration Program to complete assessments of subwatersheds for high priority waters for water quality BMP retrofits throughout the eleven county metro area. ACD will focus on successfully fulfilling the obligations of the first round of funding as it comes to an end in 2011. Also,

ACD will pursue patenting and promoting the pretreatment chamber for curb cut rain gardens that staff designed. After the first round of installation and monitoring in 2010, it is clear that they will greatly enhance the function of the rain gardens while simplifying the maintenance needs. We will work to put it into production for large scale application throughout the Twin Cities Metro Area.

ANOKA CONSERVATION DISTRICT MISSION

We conserve and enhance the natural resources of Anoka County.

We do this by:

- informing and assisting landowners and local governments in natural resource management, and
- promoting stewardship practices for soil and water conservation, and
- conducting research and monitoring.

GUIDING PRINCIPLES

- Partner with both public and private sectors
- Maintain highly qualified, knowledgeable staff
- Make fair and ethical decisions
- Promote cost effective and efficient resource management
- Keep natural resource issues visible in Anoka County
- Respond to opportunity and changing needs
- Develop diverse programs, partners and funding sources

EMERGING ISSUES

Climate change is speculative and does not benefit from consensus. What is known is that the composition of the gases in the atmosphere are changing and it seems to coincide with the industrial revolution and the reliance on fossil fuel burning to supply the world's energy needs. How this change in composition will ultimately influence weather patterns, ocean currents, precipitation regimes and vegetation is uncertain, but it warrants mention and consideration during planning efforts. Agencies must

be prepared to adapt to changes that do occur and make appropriate adjustments to programs to reduce or alleviate the resulting problems.

Groundwater supplies in Minnesota have not been an issue of concern in past planning efforts. Recent projections indicate that areas of Anoka County may experience drinking water shortages in the next twenty years. As surficial groundwater is depleted, we can anticipate shallow domestic wells drying up, wetlands being converted to non-wetland, stream base flows being compromised, shallow lakes becoming wetlands, recreational lakes becoming smaller, shallower and experiencing water quality problems, and vegetation transitioning to more drought tolerant species. Anoka County is the recharge area for many of the deeper aquifers relied upon by the Twin Cities and surrounding suburbs to the south for commercial and domestic water supplies. Overuse in those communities will result in lowering water tables in Anoka County. Efforts to conserve water and increase infiltration should be considered during planning efforts and project design.

Infiltration and groundwater quality protection can be in conflict with each other. Under the direction of the MN Pollution Control Agency, many municipalities continue to have source water protection strategies that prohibit the infiltration of stormwater in effort to protect shallow groundwater from contamination. Several stormwater constituents such as nitrates, chlorides, pathogens, and heavy metals are not adequately filtered by the sandy soils of the Anoka Sand Plain. The ultimate decision will be between having ground water supplies that are adequate but require treatment before consumption, or inadequate water supplies that do not need to be treated; historic strategies err in favor of the latter.

PRIORITIES/STRATEGIES

Listed in descending order of priority as identified in the ACD's Comprehensive Plan

WATER QUALITY

- Maintain high quality surface waters
- Improve impaired surface waters
- Participate in local planning for preserving clean drinking water

WATER QUANTITY

- Minimize long term depletion of surficial aquifer
- Establish practices for water reclamation

NATURAL HABITATS

- Provide leadership in open space planning and protection
- Address invasive species in high quality natural areas
- Promote open space protection during the development process
- Meet annual with planning and zoning commissions regarding development review process
- Ensure there is an entity able to accept and manage easements on high priority parcels

WETLANDS

- Prevent wetland loss and degradation by enforcing the WCA and recognizing the importance of wetland quality as well as quantity

SOILS

- Maintain and enhance the quality of soil
- Maintain and promote sound agricultural practices through conservation planning

DISTRICT SUPERVISORS

District	Name	Office	Term End
I	Karla Komec	Member	12/31/12
II	Jim Lindahl	Member	12/31/12
III	Karl Tingelstad	Member	12/31/14
IV	Mary Jo Truchon	Chair	12/31/14
V	Vici Nass	Treasurer	12/31/12

Regular board meetings of the ACD are generally held on the third Monday of each month. A yearly meeting schedule is posted in the office of the ACD and on ACD's official website, www.AnokaSWCD.org. Regular board meetings and committee meetings are held at the District office in Ham Lake unless otherwise noted.

ACD COMMITTEES

ACD supervisors also serve on committees to analyze detailed information on issues requiring intensive review prior to full board action. Some committees are internal and others function on a metro or statewide level. Supervisors choose to participate in committee meetings to offer personal expertise in the area of discussion or to gain more knowledge of the subject matter. Each supervisor is encouraged to serve on at least two committees.

Finance	Operations	Personnel
Nass, Chair	Lindahl, Chair	Komec, Chair
Komec	Tingelstad	Nass
Lindahl	Truchon	Truchon
Truchon (alt)	Nass (alt)	Tingelstad (alt)
Metro Association	Lindahl (primary), Komec (alt)	
CCWD Citizen Advisory	Lindahl	
RCWD Citizen Advisory	Truchon	
Area IV Association	Nass/Truchon/Komec	

DISTRICT STAFF

Current staff has 1440 workdays in administrative and technical support to contribute to District goals and objectives. District objectives typically require 1500+ workdays to complete. This is more than current and proposed staff can provide. Workload management requires that programs and services be prioritized, often favoring those that are self funded.

The District employs 8 people with 7.5 full time equivalents although two of those FTEs are shared among the eleven metro counties.

ACD	Position
Chris Lord	District Manager (1 full time)
Kathy Berkness	Administrative Assistant (1 full time)
Jamie Schurbon	Water Resource Spec. (1 full time)
Dennis Rodacker	Wetland Specialist (1 full time)
Mitch Haustein	Assist. Water Resource Tech. (.4 part time)
Andy Schilling	Landscape Restoration Spec. (.12 Anoka)
Shawn Tracy	Landscape Restoration Spec. (.12 Anoka)
Nate Zwonitzer	Conservation Specialist. (1 full time)

NRCS Position	(office in Elk River)
Mary Monte	District Conservationist
Jerry Anderson	Soil Conservation Technician

OBJECTIVES AND STRATEGIES

The following matrix was pulled from ACD's 2010-2014 Comprehensive Plan.

The ACD Board of Supervisors has identified five major issues to address in Anoka County in the coming years: Water Quality, Water Quantity, Natural Habitats, Wetlands, and Soils. There are several means of addressing a given issue. ACD has selected the following general mechanisms: monitor, inventory, assess, plan, protect, assist, fund, educate, fund, administer, sell, rent, and educate.

Mechanism	Water Quality	Water Quantity	Natural Habitats	Wetlands	Soils
<p><u>Monitor</u> lakes, rivers, groundwater and precipitation utilizing staff and a volunteer network to:</p> <ul style="list-style-type: none"> Maintain baseline data, establish trends and identify and diagnose the nature of problems in Water quality, water quantity, and biota In high priority water resources. 	<p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p>			
<p><u>Inventory</u> natural resources to ensure staff have updated information necessary to make sound resource management decisions to improve water quality, reduce flooding, prevent loss of top soil, and enhance wildlife habitat. Routine inventory work is needed on:</p> <ul style="list-style-type: none"> the condition of riparian properties on priority lakes and rivers, aquatic and terrestrial invasive species, and 	<p>✓</p>	<p>✓</p>	<p>✓</p> <p>✓</p>	<p>✓</p>	<p>✓</p>

Mechanism	Water Quality	Water Quantity	Natural Habitats	Wetlands	Soils
<ul style="list-style-type: none"> wetland replacement sites under the WCA. 			✓	✓	
<p><u>Assess</u> properties to identify management approaches to optimize natural resource quality, quantity and distribution. Assessments vary in scale and scope and include:</p> <ul style="list-style-type: none"> water resource diagnostic studies and TMDLs typically on a watershed basis to determine the cause of water impairment on high priority water bodies, stormwater retrofit assessments typically in urbanized settings at the subwatershed or catchment scale that contribute untreated water to high priority water bodies, the purpose of which is to identify the most cost effective practices to improve water quality and reduce flooding, and development plat reviews to provide comments on all aspects of natural resource management including forestry, soils conservation, erosion and sediment control, invasive species, wildlife habitat, and energy conservation; including the expansion of this service to municipalities not currently participating. 	<p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p>
<p><u>Plan</u> for the effective utilization of limited staff and financial resources of the district through the development of:</p> <ul style="list-style-type: none"> comprehensive plans every five years, annual plans each year, and 	<p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p>

Mechanism	Water Quality	Water Quantity	Natural Habitats	Wetlands	Soils
<ul style="list-style-type: none"> mutually beneficial partnerships with other government entities and non-profit organizations. 	✓	✓	✓	✓	✓
<p><u>Plan</u> for the long-term viability of the natural resource base of Anoka County by:</p> <ul style="list-style-type: none"> identifying and prioritizing natural resource issues and trends in ACD's comprehensive and annual planning processes, reviewing and commenting on city and water management comprehensive plans, establishing and updating a greenway network plan that focuses on the protection of remaining natural communities and interconnecting expansive habitat areas, encouraging conservation design development where feasible to establish and maintain the greenway network and to protect high quality ecosystems, and encouraging infiltration of stormwater to maintain and restore surficial groundwater aquifer levels. 	✓	✓	✓	✓	✓
<p><u>Protect</u> high priorities parcels that contain rare and declining habitats, natural communities identified by the MN County Biological Survey, and/or are located in identified greenway networks by:</p> <ul style="list-style-type: none"> identifying opportunities for conservation development, acquisition of fee title and conservation easements, and 	✓		✓	✓	

Mechanism	Water Quality	Water Quantity	Natural Habitats	Wetlands	Soils
<ul style="list-style-type: none"> ensuring there are local entities capable of accepting and managing fee titles and conservation easements. 	✓		✓	✓	
<u>Protect</u> water quality in high priority water bodies by prioritizing monitoring, analysis and technical and financial resources in a manner that achieves the most good for the most people on the highest priority resources.;	✓	✓			
<u>Assist</u> landowners and public entities to manage and enhance high priority natural resources by; <ul style="list-style-type: none"> designing and coordinating installation of conservation practices and ecosystem restorations preparing conservation plans for agricultural operations in cooperation with USDA NRCS preparing conservation plans for properties enrolled in the Rural Preserve Property Tax Program enforcing the Wetland Conservation Act of 1991 refining the development review process utilizing minimal impact development design standards facilitating the treatment of invasive species 	✓	✓	✓	✓	✓
<ul style="list-style-type: none"> preparing conservation plans for agricultural operations in cooperation with USDA NRCS preparing conservation plans for properties enrolled in the Rural Preserve Property Tax Program enforcing the Wetland Conservation Act of 1991 refining the development review process utilizing minimal impact development design standards facilitating the treatment of invasive species 	✓	✓	✓	✓	✓
<ul style="list-style-type: none"> preparing conservation plans for properties enrolled in the Rural Preserve Property Tax Program enforcing the Wetland Conservation Act of 1991 refining the development review process utilizing minimal impact development design standards facilitating the treatment of invasive species 	✓	✓	✓	✓	✓
<ul style="list-style-type: none"> enforcing the Wetland Conservation Act of 1991 refining the development review process utilizing minimal impact development design standards facilitating the treatment of invasive species 	✓	✓	✓	✓	✓
<ul style="list-style-type: none"> refining the development review process utilizing minimal impact development design standards facilitating the treatment of invasive species 	✓	✓	✓	✓	✓
<ul style="list-style-type: none"> facilitating the treatment of invasive species 	✓	✓	✓	✓	✓
<u>Fund</u> conservation practices installation and design engineering to address high priority problems in partnership with landowners and public entities.	✓	✓	✓	✓	✓
<u>Fund</u> water management activities and WCA administration through administration of the Natural Resources Block Grant.	✓	✓		✓	

Mechanism	Water Quality	Water Quantity	Natural Habitats	Wetlands	Soils
<p><u>Administer</u> programs and grants in partnership with public entities to achieve efficiencies and leverage limited funding by;</p> <ul style="list-style-type: none"> • preparing annual reports on behalf of water management organizations, • hosting websites for several water management organizations, • applying for grants in partnership with other local governments, and • hosting the Landscape Restoration Program on behalf of the Metro Conservation Districts. 	✓	✓		✓	
<p><u>Sell</u> tree and shrub seedlings and native grass and forb seed at an annual sale for the purpose of habitat creation and restoration.</p>	✓		✓	✓	✓
<p><u>Rent</u> equipment useful for the implementation of conservation practices.</p>	✓		✓	✓	✓
<p><u>Sell</u> supplies at cost that are useful for the implementation of conservation practices.</p>	✓		✓	✓	✓
<p><u>Sell</u> rain garden pretreatment chambers to enhance the function of curb cut rain gardens and simplify long term maintenance for cooperators.</p>	✓	✓			
<p><u>Educate</u> the public about natural resource topics dealing with priority issues through varied media types such as;</p> <ul style="list-style-type: none"> • presentations and workshops, • brochures, • news paper articles, • guidebooks • displays, • cable, • websites, and • events. 	✓	✓	✓	✓	✓

Mechanism	Water Quality	Water Quantity	Natural Habitats	Wetlands	Soils
<u>Educate</u> local councils and commissions about storm water management, erosion control, water quality, and water quantity as it pertains to recommendations supplied as part of the plat review process.	✓	✓	✓		
<u>Educate</u> lake associations on lake management issues by undertaking cooperative programs to benefits lakes.	✓		✓		
<u>Educate</u> public officials on high priority resource topics through appropriate venues.	✓	✓	✓	✓	✓
<u>Educate</u> landowners with heritage communities about land stewardship and the value of their resource by providing selected properties with a Homeowners Guide.			✓	✓	
<u>Educate</u> policy makers on the importance of infiltration practices to avoid the long term depletion of surficial aquifers.	✓	✓	✓	✓	

PROGRAMS AND SERVICES

Addressing the identified objectives requires many programs and services. Following is a summary of ACD's ongoing and proposed efforts.

MONITORING

In order to focus limited financial and technical resources it is important to continually monitor resource quality, quantity and distribution. ACD's extensive water quality and hydrology monitoring program coupled with inventories and diagnostic studies ensures that we are focusing our efforts where they will do the most good.

ACD conducts routine biological monitoring and chemical monitoring

in select areas throughout the watersheds in the county and does special diagnostic studies under contract with water management entities. We have conducted TMDL studies for two lakes and anticipate working with MPCA to complete more.

LAKE WATER QUALITY - ACD monitors water quality of most recreational lakes in the county. Initially we monitored all lakes frequently. Now that a baseline of data exists, monitoring is most frequent (every 1-3 yrs) on those lakes with suspected problems, new stresses, or ongoing management. Other lakes are monitored less frequently (every 3-4 yrs). Full monitoring of 4 lakes is planned for 2011 with secchi reading by volunteers on 2 more.

STREAM QUALITY - A variable number of streams are monitored each year, typically 5-10 sites. Monitoring is done for problem detection and diagnosis of known problems, including TMDL studies. 14 sites are planned for monitoring on six waterways in 2011.

BIOMONITORING OF STREAMS - The stream biological monitoring program is both an educational program and a stream health assessment tool. The biomonitoring program relies upon students, with guidance from their teachers, to conduct the sampling and rudimentary sample sorting as part of their high school ecology curriculum. The program uses benthic (bottom dwelling) macroinvertebrates to determine stream health. Because of their extended exposure to stream conditions and sensitivity to habitat and water quality, they can serve as good indicators of stream health. In 2011 we anticipate approximately 500 students from 7 high schools will monitor streams under ACD supervision. ACD staff will monitor an additional 6 sites.

RUM RIVER WATERSHED OUTLET MONITORING PROGRAM - ACD operates the Metropolitan Council's water quality and quantity monitoring station in the City of Anoka on the Rum River.

LAKE LEVELS - Volunteers monitor water levels in 24 lakes. ACD coordinates this effort by installing and surveying lake gauges, providing datasheets, quality checking data, and submitting data to the DNR for their website.

STREAM HYDROLOGY/DISCHARGE - A variable number of streams each year have continuous water level monitoring devices. We used to monitor 8-12 sites but have reduced that to 7 sites due to a lack of funds. This monitoring is often paired with water quality studies so pollutant loading calculations and modeling can be done.

REFERENCE WETLANDS - Wetland regulations are often focused upon determining whether an area is, or is not, a wetland. This is difficult at times because most wetlands are not continually wet. In order to facilitate fair, accurate wetland determinations the ACD monitors 18 wetlands throughout the county that serve as a reference of conditions. Electronic monitoring wells are used to measure subsurface water levels at the wetland edge every four hours up to a depth of 40 inches. This hydrologic information, along with examination of the vegetation and soils, aids in accurate wetland determinations and delineations. These reference wetlands represent several wetland types. Some have been monitored for more than 10 years.

OBSERVATION WELLS - The DNR and ACD are interested in understanding Minnesota's groundwater quantity and flow. The DNR maintains a network of groundwater observation wells across the state. The ACD is contracted to take monthly water level readings at 15 wells in Anoka County during March - December. The DNR incorporates these data into a statewide database that aids in groundwater mapping.

RAIN GAUGE NETWORK - Precipitation can be quite variable across the county. In order to obtain accurate data to pair with other hydrological monitoring programs ACD manages a network of 5 datalogging gauges and 15 manual gauges operated by volunteers.

INVENTORY

Resource inventories are just as important as monitoring. Inventories provide resource information essential to the development of successful conservation projects. ACD is equipped to complete a variety of inventory projects, having many years of aerial photos, GPS equipment, GIS software and the expertise to

use them. We engage in some routine inventories and updates while also tackling period 'once in a career' efforts like the geologic atlas.

GEOLOGIC ATLAS - ACD staff facilitated the collection of sufficient local matching funds from each of the water management organizations and watershed districts in the county to partner with the MN Geologic Survey to have a geologic atlas completed for Anoka County. ACD hired and oversaw seasonal staff who identified the location of 10,000 wells throughout the county in 2009 and 2010. These data were provided to the MN Geologic Survey. Completion of the atlas is anticipated in 2012.

SHORELAND - ACD conducts shoreland inventories on priority water bodies in partnership with water management organizations, watershed districts and lake associations. During the inventory process the condition of the shoreline is documented to identify erosion and adjacent land management practices. Follow up education is done with landowners on properties where the shoreline condition could impair water quality in the lake.

LAND COVER UPDATE - ACD conducted land cover inventory of the entire county between 1999 and 2005. The earliest inventoried areas are in need of updating since the protocols were improved during the inventory process and land cover has changed in areas due to development. ACD will continue to update the coverage within budgetary and workload constraints.

ASSESSMENT

WATER RESOURCE DIAGNOSTICS/ TMDLS - The Water Resource Specialist and Technician work with other state and local agencies to investigate water resources problems such as water quality impairments and hydrological problems. Over the years we have completed diagnostic studies on several tributaries to the Rum River, Sand Creek in the Coon Creek watershed and Pleasure Creek. A draft TMDL for Typo and Martin Lakes was submitted to MPCA in early 2009 for review but has yet to be returned. Assessments of Fawn and Coon Lakes are being considered by the Sunrise River WMO.

STORMWATER RETROFIT-Building from recently completed Non-Degradation Reports, Stormwater Pollution Prevention Plans and TMDLs, ACD partners with local funding sources to complete subwatershed assessments for priority water bodies. The first three assessments were completed in 2009 and 2010 on Rice Lake for the Rice Creek Watershed District and on Sand Creek and Woodcrest Creek for the Coon Creek Watershed District. The assessments involve the identification of retrofit opportunities throughout the identified subwatershed to improve water quality in the target water body. Specific practices with pollutant load reduction estimates and installation, operation and maintenance cost estimates are provided enabling partners to select and budget for the installation of the most cost effective practices. ACD has agreements to complete assessments for Martin Lake (SRWMO), Lower Coon Creek (CCWD), and Golden Lake (RCWD) in 2011. This approach was promoted to the legislature in 2009, which resulted in a \$1,000,000 allocation for the Metropolitan Landscape Restoration Program (LRP). LRP staff are now facilitating the adoption of this process throughout the eleven county metro area. This will continue to be a high priority for many years to come.

PLAT REVIEWS - ACD staff review development proposals in several municipalities and provide comments from a natural resource perspective. In reviewing the development proposal, we provide an assessment of how the development can have the least impact on natural resources while still meeting the community's growth needs and the developer's financial needs. We approach it with the attitude that development is not bad, but it can be done poorly. Municipalities incorporate ACD's comments at their discretion.

Being involved in the development review process enables ACD staff to make progress on several high priority resource problem areas. This process would be significantly enhanced if ACD were to become involved at the sketch plan phase and if more cities utilized the service. Additionally, planning and zoning commission members should receive copies of ACD's comments directly and ACD staff should offer to attend P&Z meetings for higher priority development proposals. The housing market slump has drastically

reduced development and correspondingly, ACD's workload in this area.

PLANNING

WATER MANAGEMENT - ACD's Water Resource Specialist assists water management organizations with updates or supplements to their water management plans. He also helps develop annual plans of work to ensure progress is made toward the goals outlined in their water management plans. ACD recently completed updates to the Sunrise River Watershed Management Organization's plan and facilitated a technical advisory committee for the Upper Rum River Watershed Management Organization that developed wetland and stormwater management standards, amended them to the WMO Plan and incorporated them into member city ordinances and control measures. In 2011, ACD will assist the Lower Rum River WMO to complete this same task.

OPEN SPACE - ACD has provided several municipalities with planning assistance to encourage the protection of open space during the development process. Nowthen, Andover, East Bethel, Ham Lake and Linwood all benefited from this effort. This was made possible with funding from the Legislative Citizens Commissions on Minnesota Resources. Staffing to continue this service is no longer available. ACD will continue to encourage open space protection as part of the development review process.

LAND PROTECTION

Preservation of parcels that are of particular importance for wildlife habitat is a high priority. Efforts to preserve land should be limited to parcels that fall within the identified wildlife corridor network, notwithstanding modifications to the corridor plan.

CONSERVATION EASEMENTS - ACD holds conservation easements on three properties in Anoka County; a 55 acre parcel in the City of Nowthen that is being restored to prairie and savanna, a 200 acre parcel owned by the City of Anoka along the Rum River, and a 43 acres parcel on the south shore of Deer Lake in East Bethel.

Technical and administrative assistance is provided to landowners interested in donating a conservation easement. Preparation of easement documents and natural resource management plans can be very time consuming and expensive to contract for in the private sector. This expense can be a large deterrent to interested landowners.

Once easements are established, annual inspections and meetings with the landowner are important to ensure that there are no easement violations and that progress is being made on approved management plans. A lack of easement maintenance funding to implement management plans has been identified as an issue that staff needs to address. ACD's policy is to partner with the local municipality so that they can assume the enforcement authority.

OWNERSHIP - ACD is able to own property. A landowner in St. Francis donated a conservation easement on 65 acres to the MN Land Trust and the fee title to ACD. ACD took ownership of the property in 2010 and began the large task of clean up work, which was necessary as there is debris and hazardous material within and around several outbuildings.

CONSERVATION DEVELOPMENT - Land protection will be encouraged during the development review process when the development is located on an identified wildlife corridor. Local government units have broad authorities to help preserve high priority parcels during the development process. Continuing to work with them to develop plans and procedures to facilitate this will remain a strategy of the ACD.

RECOMMENDATION FOR COUNTY - ACD is requested by the Anoka County Board of Commissioners to comment on the resource limitations and suitability for conservation purposes whenever a proposal by the state to purchase land is submitted. ACD reviews each project objectively and recommends only those sites with outstanding resource value either by virtue of location, size or ecological characteristics, be protected through purchase by the state.

TECHNICAL ASSISTANCE

While monitoring, inventory, assessments, and planning are important, they achieve nothing unless they result in changes in practices on the ground to improve natural resource quality, quantity and distribution. ACD provides direct technical assistance to facilitate conservation practice implementation.

WATER QUALITY PRACTICES

Consultation with landowners is the first step. The ACD meets with landowners to provide advice about water quality improvement projects. The discussions include consideration of landowner goals, site characteristics, and site limitations, and available financial assistance that may exist. Generally, the types of projects discussed include rain gardens, lakeshore restorations, and erosion correction. Most site consultations include one hour of preparation, one hour on-site, and one hour of follow-up.

Project planning and design may follow the site consultation. While planning and design components will vary by project, this service generally includes a drawing set of existing conditions, construction design plans, planting plan, and cross sections as appropriate. A detailed estimate of labor and materials is also included. The size and complexity of the project will influence assessment and design time. If project scope or complexity is beyond the capacity of ACD staff and requires the services of a professional engineer, ACD can request funding from the Metro Conservation Districts to assist with the cost, but an increase in landowner fees may be necessary. Landowners may be charged fees for design assistance to limit the amount of speculative technical assistance that does not result in a conservation project.

Project promotion to recruit interest from landowners of properties that have been identified as having the most potential to impact resource quality has become a focus in recent years. The assessment process identifies parcels, best fit projects and the associated costs and benefits. Directed promotional effort help to get the most effective projects installed. ACD is under contract

with the RCWD and CCWD to implement this promotional outreach effort.

Installation oversight is crucial, and a service the ACD highly recommends. This includes a preconstruction meeting with the contractor, landowner and permitting authorities along with periodic inspections of the work progress and a final inspection upon completion of the project to ensure proper installation. ACD has contract with CCWD and RCWD to oversee construction of several BMP in targeted subwatersheds.

Post construction inspections ensure the project is functioning as intended and properly maintained. The number of inspections varies greatly depending on the nature of the project and environmental condition that could influence its success such as drought or flooding.

Project types most often considered include:

Rain leader disconnect rain gardens are no longer promoted because they are far less efficient than curb cut style rain gardens.

Curb cut rain gardens are used in residential and commercial neighborhoods with storm sewer curb and gutter, and are designed to intercept and infiltrate rain water from roadways. Pretreatment chambers designed by ACD make maintenance much easier and improve the rain gardens function.

Lakeshore and riparian plantings involve the establishment of deep rooted native perennial grasses, sedges, wildflowers and/or trees and shrubs above the normal water level with little or no grading.

Lakeshore restoration involves the establishment of deep rooted native perennial grasses, sedges, wildflowers and/or trees and shrubs including the shallow aquatic zone, transitional zone and upland with little or no grading.

Lakeshore and streambank stabilization includes the treatment of active erosion utilizing bioengineering and/or hard armoring often in combination with a shoreline restoration or buffer planting and typically involves some grading.

Treatment pond modification may also be recommended. ACD will typically call upon the expertise of a consulting engineer if this practice is being considered.

Campus retrofits are larger scale projects such as school grounds, churches, municipal building and business complexes that may include several different practices noted above.

HABITAT IMPROVEMENT - Just as many water quality improvement practices are a benefit to wildlife, many habitat improvement practices also improve water quality, water conservation, flood control and other resource concerns. Including the following services under habitat improvement does not imply that is the only benefit.

Ecosystem restoration varies in scale and type, from 2 acres to 200 acres or more and can involve the restoration of a single ecosystem such as a prairie, savanna, woodland or wetland, or a complex of interconnected ecosystems. Larger scale projects are typical of publicly held lands. Most projects on private property are less than 20 acres in size. Working with landowners to enhance the wildlife value of their property will continue to be a service of the ACD. Ecosystem restoration and enhancement will be done by providing both technical and financial assistance utilizing programs such as Wildlife Habitat Improvement Program, Environmental Quality Incentives Program, Native Buffers Cost Share Program, and Conservation Partners Grants.

Backyard habitat refers to projects less than an acre in size. Backyard habitat enhancement projects focus on attracting wildlife by providing food, water, and shelter but not in a way that could be considered an ecological restoration. Plans vary based upon the wildlife the landowner wishes to attract but can include butterfly gardens, bird houses and feeders, plantings of both native and non-native species (although native species are encouraged) to provide food and shelter, rock and brush piles, and water features.

Invasive species control is often a first step toward ecosystem restoration. The control of invasive species such as Common and Glossy Buckthorn, Tartarian Honeysuckle, Garlic Mustard, Purple

Loosestrife, Reed Canary Grass, Spotted Knapweed and several thistle species must be achieved in order to begin the process of reintroducing desirable native species. In some cases it is the only activity needed to preserve an otherwise high quality ecosystem. ACD has undertaken a "buckthorn clean sweep" project, where sparse buckthorn infestations in our highest quality natural areas are being eradicated. In recent years over 1,000 acres have been treated. ACD will pursue funding to continue this effort and dedicate some staff and financial resources in November of each year regardless of outside funding to ensure continuity in this program.

WETLANDS - Most of the work done by ACD related to wetlands is due to the Wetland Conservation Act of 1991 (WCA). Some activities are mandated while others are offered to help landowners cope with the complexity of wetland regulation. A full time Wetland Specialist is employed to meet the workload demands of this area. Due to the extreme slow down in the economy, WCA workload has dramatically decreased. This has created the opportunity to focus on previously neglected areas such as follow up replacement site monitoring and wrapping up lingering enforcement issues. Generally WCA workload falls in the categories of WCA compliance assistance to project applicants, WCA enforcement, and wetland delineations. LGUs are encouraged to utilize escrows and deed restriction to achieve compliance.

CONSERVATION PLANS - Property level conservation plans are important components of many programs. ACD develops conservation plans at many scales with variable natural resource focus areas.

Water appropriations conservation plans are required for most Minnesota Department of Natural Resources water appropriations permits. They are to be developed with, and approved by, the soil and water conservation district. Most often, these plans are similar to water conservation plans already developed for other projects, however some customizing is always necessary.

Conservation easement management plans are required whenever public funds are expended to secure a conservation

easement. ACD prepares plans that outline how the property's soil, water and biota will be managed to maintain and improve the ecological functions of the property.

Rural Preserves Property Tax Program conservation plans are required prior to enrollment of certain agricultural parcels into the program. These plans may be completed by ACD staff but must be approved by ACD in accordance with criteria established by ACD.

GIS ASSISTANCE - ACD has expertise in Geographic Information Systems (GIS) technology, which allows for the production of complex maps, and offers these services to improve natural resources management planning and projects.

FINANCIAL ASSISTANCE

Project Cost Share - Financial assistance in the form of project cost share grants is sometimes available along with our technical services to encourage projects on private lands that will have public benefits of water quality or wildlife habitat. There are several potential sources of funding and ACD works with landowners to help coordinate the application process. Grants, funded mostly by partner agencies but administered by ACD, typically provide 50-75% cost share on materials. Increased funding commitments from WMOs will be sought to increase conservation practice installations.

WATERSHED DISTRICTS AND WMOs have cost share funding available for water quality improvement and demonstration projects. ACD partners with Rice Creek Watershed District to administer RCWD's cost share program. Through this partnership, ACD meets with landowners to discuss potential resource management strategies, assists with the development of practice designs and cost estimates, coordinates cost share requests with funding sources, and oversees project installation. RCWD provides the bulk of the cost share funds and ACD and RCWD work together to promote and prioritize project activities. ACD administers small project cost share grants for the Sunrise River, Upper Rum River and Lower Rum River WMOs while Coon Creek Watershed District administers their program internally.

STATE COST SHARE PROGRAM funds are available for approved practices provided they are designed by someone with technical approval authority for the particular practice. Many approved practices require design by a licensed engineer.

CLEAN WATER FUND project cost share is available through the allocation to the Metropolitan Landscape Restoration Program made to the Anoka Conservation District. Use of the funds is limited to projects that were identified as the result of a subwatershed level stormwater retrofit assessment. ACD will administer these cost share funds throughout the eleven county metro area.

ENGINEERING ASSISTANCE - Funding is available through the Metro Conservation Districts Non-Point Engineering Assistance Program (NPEAP) to contract with consulting engineers for the design of conservation practices, typically to be installed with cost share funds. Applications must be made through ACD for projects in Anoka County.

LOCAL WATER PLANNING - ACD applies for and manages local water planning funds through BWSR's Natural Resources Block Grant. These funds are used to offset the cost of assisting WMOs with the implementation of their water plans. Anoka County receives approximately \$11,000 to be shared among the water management entities.

WCA ADMINISTRATION - ACD applies for and distributes funds through BWSR's Natural Resources Block grant to reimburse LGUs a portion of the cost of implementing the WCA. Approximately \$70,000 is available for Anoka County LGUs which amounts to approximately 40% of reported expenses.

ADMINISTRATIVE ASSISTANCE

WMO REPORTING - Water management entities are required to submit annual reports of activities and finances to the Board of Water and Soil Resources. ACD prepares annual reports on behalf of three of the four WMOs for a fee.

PROGRAM HOSTING - ACD hosts the Landscape Restoration Program for the Metro Conservation Districts. The program employs two full time Landscape Restoration Specialists who serve the eleven county metro area. ACD has successfully sought and received funding for the program from the Natural Resources Conservation Service, the Metropolitan Council, and most recently from the MN State Legislature.

WEBSITE HOSTING - ACD manages two websites and provides website host and management services to four Watershed Management Organizations. The ACD websites include one about the ACD (www.AnokaSWCD.org) and one that serves as a general library of natural resources information about the county (www.AnokaNaturalResources.com). All of these websites feature an online mapping tool and interactive access to water resources data.

PRODUCTS & EQUIPMENT

TREE SALES - ACD hosts an annual tree and shrub seedling sale. We historically sold approximately 27,000 seedlings to 300+ landowners. By selling seedlings in bundles of 25, our focus remains habitat improvement, not individual landscaping trees. The slow economy has cut sales in half, to approximately 14,000 trees. While ACD has considered eliminating the tree sale altogether, we have elected to maintain it until the economy turns around. Furthermore, the tree sale is an opportunity to provide one-on-one consultations with landowners about habitat improvement. We also provide some native grass and wildflower seed. Hopefully, more frequent newspaper articles regarding trees and conservation will boost sales.

EQUIPMENT RENTAL - ACD has invested in several pieces of equipment that help landowners implement conservation practices. The equipment is available for rent and is used to install ACD coordinated conservation practices. Available equipment includes;

- Kawasaki Mule ATV
- Truax 3' Native Seed Drop Seeder

- 25 Gallon Herbicide Tank and Boom Sprayer
- 52" Pull Behind Brush Mower
- 14" Chain Saw

Safety equipment and training is included with the rental.

RAIN GARDEN PRETREATMENT CHAMBER - ACD staff designed a pretreatment chamber for rain gardens to greatly reduce the time and effort needed to maintain them. Approximately 24 were sold in 2010. We are pursuing patenting the concept and intend to sell and install several more in 2011.

MISCELLANEOUS CONSERVATION MATERIALS - Many materials needed for conservation projects are not readily available, or are only available in bulk quantities. This can discourage landowners from moving forward with a project. To facilitate project installation ACD has several items on hand and provides them at cost including herbicide, geotextile fabric, biodegradable stakes, duckbill anchors, galvanized steel cable, and horseshoe clips.

EDUCATION

WEBSITE - ACD manages two websites including one about the ACD (www.AnokaSWCD.org) and one that serves as a general library of natural resources information about the county (www.AnokaNaturalResources.com). Both of these websites feature an online mapping tool and interactive access to water resources data.

HOMEOWNER'S GUIDE - One of our largest educational efforts was the booklet "Outdoors in Anoka County: a Homeowners Guide." The guide was developed specifically for landowners living adjacent to high quality natural areas but contains information on topics relevant to every Anoka County resident. The guide includes insights into our high quality natural areas and suggested 'must see' public open spaces. It has tips on landscaping for wildlife, water quality, energy conservation, water conservation, and healthy lawns. It includes information on invasive species and plant diseases common to our area as well as some discussion about wetlands management

and regulation. It touches on septic system care, household and yard waste management, and well water concerns. Lastly, it includes a map of Anoka County's park system in hopes of getting people outside, connected and appreciative of the natural resources we share. 4,000 of these booklets are being distributed to homes adjacent to important natural areas. Distribution will continue in 2010.

BROCHURES - ACD staff develops brochures as a workload management tool. When requests for the same type of information become sufficiently frequent, it pays to invest staff time in the development of a brochure to more effectively convey the information. ACD staff developed a series of conservation brochures including;

- Landscaping on Lakeshores,
- Landscaping for Wildlife,
- Water-Smart: Conserving Water at Home,
- Riverbanks: Restoration and Stabilization
- Rain Gardens: Treating Runoff at the Source, and
- Native Plants: Restoring Habitat in the Metro Area.

We also developed a series of eight brochures on various topics related to wetlands and the Wetland Conservation Act of 1991 including;

- Purchasing and Developing Land,
- What's Regulated and Who Regulates,
- Exemptions,
- Wetland Impact Avoidance & Minimization,
- Wetland Replacement and Appeals,
- Wetland Banking,
- Ditch Maintenance, Pond Excavation & Mining, and
- Violations and Enforcement.

WORKSHOPS AND PRESENTATIONS - ACD routinely partners with cities and watershed districts to provide workshops on rain garden design and installation, watersmart practices, landscaping for wildlife, and lakeshore and streambank restoration. Workshops are more interactive than presentations and are intended to enable the audience to learn what is necessary to go home and implement the

conservation ideas presented. Our partners are responsible to provide the facilities, promote the workshop and take registration information while ACD staff provides the technical expertise. ACD staff also makes staff available to present information to a number of audiences on a wide variety of topics. Although we have presentations completed on topics ranging from groundwater geology to riparian land stewardship to invasive species control, we always customize the presentation to suit the specific audience and time constraints.

DISPLAY/EVENTS - ACD has develop displays for many topics including but not limited to watersmart, rain gardens, landscaping for wildlife, lakeshore and streambank restoration, oak wilt, tree and shrubs sales, native plants, prairies restoration, ground water, and wetlands. This display is used throughout the year at many events and is often staffed by one of ACD resources specialist.s.

NEWS ARTICLES - ACD frequently submits articles to the local newspapers to promote programs and services and to educate the public on topics related the natural resources stewardship.

TOURS - In 2009 ACD conducted two tours on stormwater retrofits. They both proved very successful at promoting the concept. ACD intends to utilize tours more frequently in the future to promote conservation concepts to select audiences. We planned a metro tour for legislators to highlight the accomplishments of the Clean Water Fund appropriation to the Landscape Restoration Program in the fall of 2010 but due to the election cycle, the timing was off and we opted to prepare and virtual tour video.

VIDEO - In 2011 ACD will work with Anoka County Public Relations staff to develop videos to highlight the accomplishments of the Metro Conservation Districts Landscape Restoration Program as well as one to showcase the Lower Rum River WMO. Webcast video clips will likely become a much more frequent form of education and program promotion as the years roll by.

GENERAL ACD OPERATIONS

GENERAL ADMIN/VACATION/HOLIDAY - This category accounts for that portion of each employee's time that is consumed with general district business along with vacation and holiday time. Administrative tasks performed by the District Manager and Administrative Assistant are also included in this category, composing the bulk of the hours.

GENERAL PLANNING - Effective natural resource management requires both cooperative planning with other agencies, as well as within-agency prioritization. These efforts involve ACD staff, supervisors, other elected officials, and other agencies. Comprehensive planning is completed every five years with annual plans completed each year.

PROGRAM PROMOTION - As ACD pursues new partnerships and funding sources to develop programs and services that address the objectives identified by the Board of Supervisors, their time is recorded as promotion. Promotional activities include speaking at public events, workshops, and other efforts that increase program visibility. Promotion of district programs and services is also achieved through partnerships and outreach to other agencies and entities that share the same jurisdiction or purpose such as municipal environmental and parks commissions.

DAY AT THE CAPITOL - In most years, ACD supervisors and staff spend time visiting with legislators regarding natural resource issues in Anoka County. During the legislative session in particular, ACD will often organize a Day at the Capitol whereby we meet with as many of our elected representatives as possible to promote the highest priority issues for the board.

STAFF TRAINING - In order to provide high quality service, the Board of Supervisors is committed to retaining a highly qualified staff. ACD offers staff continuing education opportunities through professional workshops, conferences, and purchase of software, books and other materials.

STABLE FUNDING - ACD receives approximately one third of its

budget from the county, one sixth from the state and one half from grants and fees for service. The instability and origin of funding places District programs and priorities at the mercy of external forces, which does not lend itself to addressing the most pressing resource needs of the county. A stable funding source is needed in order for the ACD to have the flexibility and capacity to meet the needs of the public without having to compromise the resource by following limited grant opportunities or bowing to pressures to maximize property tax revenue.

OUTREACH TO LGUS - LGU councils/staff could enhance decision making with improved data and inventories. LGU councils and staff are required to make important decisions that have lasting effects with limited information. The ACD is in a position to collect data and conduct inventories in a cost effective manner and supply that data to LGU's.

LGU councils/staff would benefit from additional understanding of the resource and conservation measures to incorporate and implement them into their planning. Natural resource systems are complex and dynamic. The roles of natural resource complexes to provide for recreation, flood control, water treatment, water conveyance, etc. are poorly understood by many in authority. The ACD is in a position to assist LGU's by attending council meetings to offer clarification as necessary.

LGU councils/staff lack the monetary incentive to place a sustainable resource higher than immediate revenue and a higher tax base in their planning efforts. As long as LGU's growth and stability are largely dependent upon property taxes, their incentive is to develop as much and as quickly as possible. This directly conflicts with much of ACD's positions on resource stewardship and management.

STAFFING REQUIREMENTS

Objective Addressed: Water Quality (WQI), Water Quantity (WQn), Natural Habitats (NH), Wetlands (W), and Soils (S)

Program	2010	Objective Addressed
Monitor Lake & Stream Water Quality	.261	WQI
Monitor Stream Biology	.135	WQI, NH
Monitor Lake, Stream, Wetland and Groundwater Levels	.162	WQn
Monitor Precipitation	.016	WQI, WQn
Inventory Wells for Geologic Atlas	.064	WQI, WQn, NH, W, S
Inventory Rum River Shoreline	.064	WQI, NH, S
Assess Subwatershed for Retrofits	.420	WQI, WQn, NH,
Planning Assistance for WMOs	.162	WQI, WQn, W
Protect Lands with Easements (Gombold)	.020	WQI, NH, W
Protect Lands with Ownership - Beach	.064	WQI, NH, W, S
Assist with Water Quality BMPs	.420	WQI, WQn, S
Assist with Habitat Improvement	.064	WQI, NH, W, S
Assist with Wetland Conservation Act	.600	WQI, WQn, NH, W
Assist with Conservation Easement Plans	.040	WQI, NH, W, S
Assist with Rural Preserves Assessments	.064	WQI, NH, W, S
Administer Project Cost Share (State CS, Clean Water Fund, WDs, WMOs)	.220	WQI, WQn, NH, W, S
Promote and Oversee BMP Installation (RCWD, CWF, SCS)	.220	WQI, WQn, NH, W, S
WCA Enforcement	.240	NH, W
Administer Landscape Restoration Program	.200	WQI, WQn, NH, W, S
Administer WMO Reporting & Websites	.048	WQI, WQn, W
Sale of Products (seedlings, pretreatment chambers, conservation supplies)	.240	WQI, WQn, NH, W, S
Rental of Conservation Equipment	.032	WQI, WQn, NH, W, S
Education - ACD Websites	.220	WQI, WQn, NH, W, S
Education - Brochures/Displays/Events	.048	WQI, WQn, NH, W, S
Education - Workshop/Presentation/Tour	.036	WQI, WQn, NH, W, S
General Admin/Vacation/Holiday	1.420	WQI, WQn, NH, W, S
General Planning	.165	WQI, WQn, NH, W, S
Program Promotion	.250	WQI, WQn, NH, W, S
Staff Training	.100	WQI, WQn, NH, W, S
Total	5.995	

COST-SHARE PROGRAM REQUIREMENTS

Cost-share programs are divided into two general categories: agricultural and urban.

NATURE AND EXTENT OF HIGH PRIORITY AGRICULTURAL PROBLEMS

High priority erosion problems are defined as: "Erosion from wind and/or water occurring on Class I-IV soil in excess of 2T tons/acre/year of any soil within 300 feet of a stream or 1,000 feet of a water basin designated as a protected water or wetland by the DNR." Areas meeting this description are all located in the northwest part of Anoka County. Wind erosion is also a problem that is accounted for in this analysis.

High priority sedimentation problems are defined as: "All areas within 300 feet of a stream or 1,000 feet of a lake where the erosion rate exceeds 3T tons/acre/year and where the Conservation District can show that sedimentation delivery for a watershed out-letting to these waters exceeds 2T tons/acre/year. The lake or stream must be classified by the DNR as a Protected Water."

High priority feedlots are defined as: "Those feedlots where the pollution rating (from the Ag. Waste Model) is greater than or equal to one and is discharging pollutants to DNR designated protected waters or wetlands; to shallow soils overlying fractured bedrock; or within 150 feet of a water well." Feedlots, when improperly located with respect to water resources, and improperly managed to prevent runoff from entering a lake or a stream, can downgrade water quality. There is very little available information on Anoka County feedlots and the information that is available is outdated and no longer reliable.

AGRICULTURAL CONSERVATION MEASURES NEEDED

Practices being used to control water erosion are: conservation tillage, grassed waterways, contour farming, strip-cropping, diversions, terraces, water and sediment control basins, and critical area plantings.

Practices used to control wind erosion are: conservation tillage, field windbreaks, wind strip-cropping and permanent vegetative cover.

Practices used to control feedlot pollution are: waste management systems, waste storage ponds, waste storage structures, waste utilization plans and diversions.

NATURE AND EXTENT OF HIGH PRIORITY URBAN PROBLEMS

With a limited agricultural constituency, ACD has noted significant erosion problems associated with urban and urbanizing land uses. Streambank erosion has been accelerated by more dramatic bounces in stream elevations that last for a longer duration. Lakeshore erosion has been accelerated due to the practice of maintaining a manicured lawn to the waters edge and wind and water erosion have become a greater concern due to mass grading on construction sites.

Ultimately, these all have the potential to degrade surface water quality. Sedimentation is the largest contributor to water quality degradation. Storm sewers are conduits for fertilizers, pesticides, chemicals, solvents, road salt, and other contaminants to open water resources. Any structural, grading or vegetative practice that has the potential to improve and protect water quality is a candidate for cost share.

URBAN CONSERVATION MEASURES NEEDED

The following conservation practices may be necessary to address high priority erosion, sedimentation, and water quality problems in Anoka County. Innovative methods are encouraged.

1. Temporary construction site erosion and sediment control practices (silt fences)
2. Grade stabilization structures (check dams, diversion)
3. Streambank and lakeshore protection (rock rip rap, bioengineering)
4. Critical area/slope stabilization (fiber blanket, revegetation)
5. Stormwater conveyance system management (ditch maintenance and ponding)
6. Model ordinances addressing erosion control, stormwater management, wetland preservation, groundwater protection
7. Reduction of sediment/chemical application to lawns and streets
8. Cub cut rain gardens and other stormwater treatment retrofit practices
9. Inspection and enforcement of existing requirements

BUDGET PROJECTIONS

Year	Personnel	Operating	Capital	County Allotment	BWSR Allotment
1991	\$67,586	\$57,164	\$2,098	\$62,500	\$9,547
1992	\$97,023	\$25,943	\$443	\$65,500	\$9,061
1993	\$106,925	\$34,448	\$2,241	\$70,000	\$9,537
1994	\$133,325	\$24,915	\$2111	\$72,000	\$9,398
1995	\$118,828	\$26,656	\$7,983	\$79,000	\$9,398
1996	\$118,272	\$34,735	\$19,423	\$83,350	\$12,094
1997	\$123,608	\$38,751	\$15,195	\$90,137	\$13,338
1998	\$129,630	\$38,657	\$3,862	\$94,013	\$16,500
1999	\$153,938	\$44,374	\$22,050	\$98,150	\$19,260
2000	\$213,469	\$50,763	\$13,429	\$114,640	\$22,752
2001	\$248,552	\$53,769	\$11,743	\$126,000	\$24,253
2002	\$315,787	\$51,340	\$37,406	\$137,500	\$24,469
2003	\$327,590	\$50,590	\$13,080	\$143,233	\$25,304
2004	\$389,124	\$52,775	\$2,801	\$125,000	\$24,039
2005	\$408,687	\$59,026	\$22,540	\$138,750	\$25,000
2006	\$410,736	\$56,908	\$11,647	\$144,000	\$25,000
2007	\$456,908	\$50,616	\$16,173	\$140,000	\$25,304
2008	\$445,687	\$61,373	\$6,436	\$145,600	\$21,812
2009	\$454,643	\$53,060	\$1,499	\$150,987	\$24,579
2010*	\$509,026	\$55,067	\$4,175	\$153,600	\$23,000
2011*	\$481,814	\$80,231	\$1,200	\$153,600	\$20,000

* Estimated

FUNDS NEEDED FOR IMPLEMENTATION

REVENUE SUMMARY

Charges for Services	244,180
Interest	350
Deposit to Funds	0
Local /Regional Grants	1,000
County Grants	190,260
<u>State Grants</u>	<u>308,638</u>
Total	\$744,428

PASS THROUGH SUMMARY **\$40,486**

EXPENDITURE SUMMARY

Personnel Services	481,814
District Operations	80,231
District Projects	109,407
Deposit to Funds	31,290
<u>Capital Expenses</u>	<u>1,200</u>
Total	\$703,942

REVENUE DETAIL

Grants

LOCAL/REGIONAL

Met Council Rum River WOMP \$ 1,000

Total \$ 1,000

COUNTY

Ag Preserves \$ 36,660

General Services \$ 153,600

Total \$190,260

STATE

Well Monitoring \$ 1,320

Clean Water Fund Admin \$ 20,000

Clean Water Fund District Capacity \$ 11,944

Clean Water Fund Staff \$ 144,230

Native Buffers Cost Share - Bunker \$ 8,507

Shoreland \$ 2,979

ISTS \$ 1,500

State Cost Share \$ 10,000

State Cost Share Admin \$ 2,500

WCA Block Grant Admin \$ 40,000

WCA Block Grant \$ 20,000

NRBG Local Water Planning \$ 10,658

BWSR WCA Enforcement \$ 15,000

General Service \$ 20,000

Total \$308,638

REVENUE DETAIL (continued)

Charges for Services

Rural Preserves Assessments	\$	1,000
WCA Administration	\$	900
Wetlands	\$	400
Easement Admin	\$	15
Equipment Rental	\$	1,500
Rain Garden Pre-treatment Chamber	\$	30,000
Labor Reimbursement	\$	2,500
Landscape Restoration Program Admin	\$	7,200
Tree Program	\$	16,000
Rental Income	\$	32,400
Contracts w/ WMO's/Local	\$	135,263
Landscape Restoration Program - MCD	\$	17,002
Interest	\$	350
Total		\$244,530

EXPENSES DETAIL

Personnel Services

Permanent Salaries	\$	368,618
Temporary Salaries	\$	10,200
Benefits	\$	45,600
Social Security	\$	28,980
PERA	\$	26,517
LTD Insurance	\$	1,900
Total		\$481,814

EXPENSES DETAIL (continued)

Office Overhead

Supv Per Diem	\$	10,000
Supv Pera	\$	300
Supv Medicare	\$	150
Supv Mileage & Exp	\$	1,500
Employee Exp & Mile	\$	850
LMCIT Membership	\$	1,437
Vehicle Insurance, Gas, Maintenance	\$	3,200
Office Maintenance	\$	2,200
Office Supplies	\$	1,000
Fees/Dues	\$	4,300
Equipment Maintenance	\$	250
McKay Property Expenses		
	Utilities	\$ 7,800
	Common Area Maint	\$ 3,250
	Mortgage Interest	\$ 22,800
	Mortgage Principle	\$ 4,800
	Property Taxes	\$ 2,806
	Garbage	\$ 624
Training & Seminars	\$	3,000
Monthly Bills	\$	2,464
Cleaning	\$	1,650
Computer Tech Support	\$	3,000
Misc.	\$	150
Postage	\$	700
Prof. Services (Audits)	\$	2,000
	Total	\$ 80,231

EXPENSES DETAIL (continued)

District Projects

Website	\$	1,600
Promotion/Volunteer Banquet	\$	350
Wetland Supplies	\$	50
Education (Envirothon, scholarships)	\$	500
Pretreatment Chamber Patent	\$	4,500
Pretreatment Chamber Materials	\$	15,000
Beach Restoration	\$	10,000
Beach Property Taxes	\$	3,500
Tree Program	\$	10,000
WMO Local Contracts	\$	14,950
AG Preserves	\$	9,160
WCA Enforcement	\$	500
Landscape Restoration Specialist	\$	18,000
Landscape Restoration Program Expenses	\$	19,787
CWF Video Tour	\$	1,500
Met Council Rum River WOMP	\$	10
Total		\$109,407

Capital

Computers	\$	1,200
Total Capital Expense	\$	1,200

Pass Through Detail

Shoreland	\$	2,979
ISTS	\$	1,500
State Cost Share	\$	10,000
Native Buffers Cost Share - Bunker	\$	6,007
WCA Block Grant	\$	20,000
Total Pass Through	\$	40,486