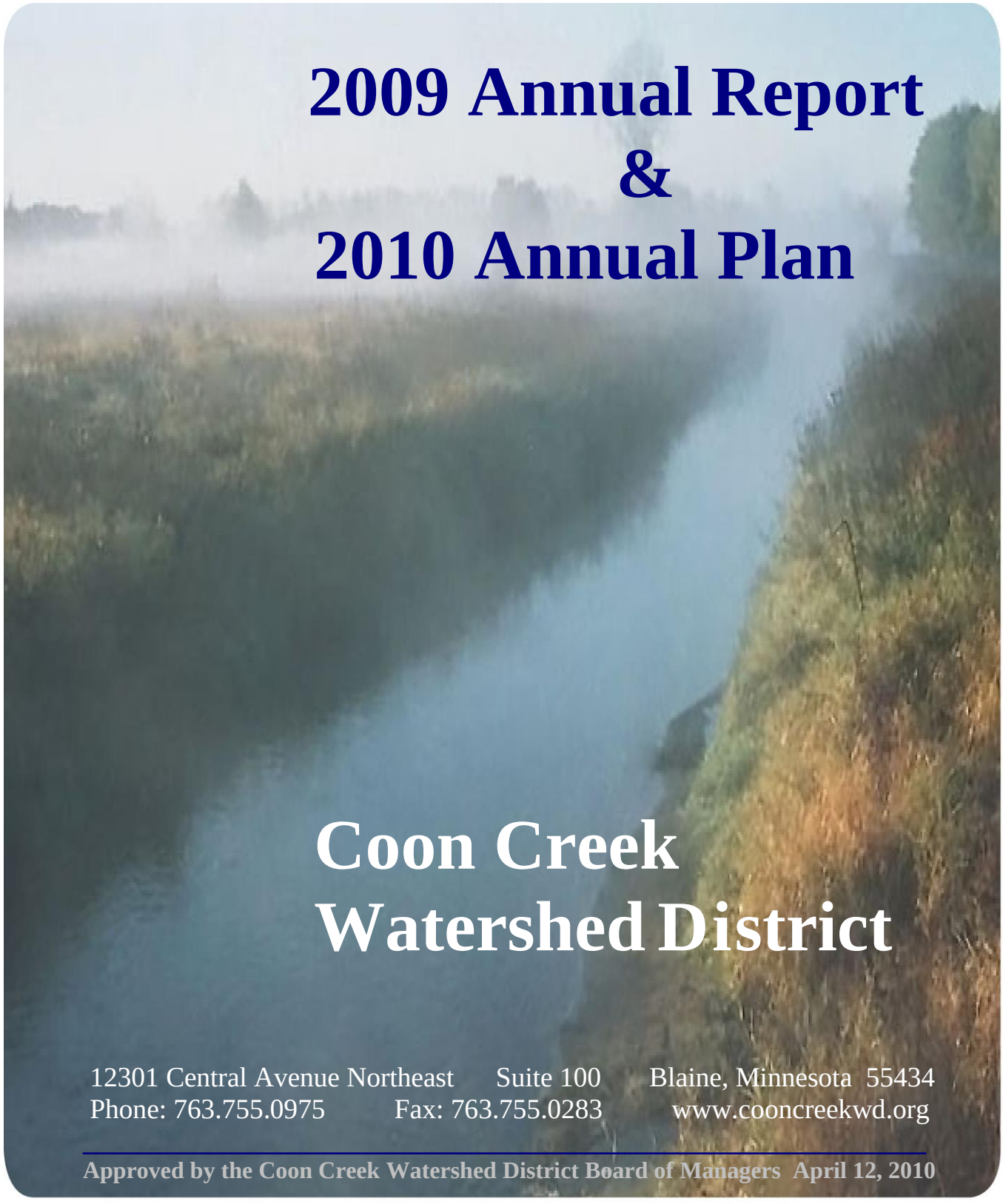

2009 Annual Report
&
2010 Annual Plan

Coon Creek Watershed District

12301 Central Avenue Northeast Suite 100 Blaine, Minnesota 55434
Phone: 763.755.0975 Fax: 763.755.0283 www.cooncreekwd.org

Approved by the Coon Creek Watershed District Board of Managers April 12, 2010

Coon Creek Watershed District
Managers and Staff 2009-10

Board of Managers	Office
Byron Westlund	President
Warren Hoffman	Vice President
Joe Marvin	Secretary
Ted Capra	Treasurer
William MacNally	At-large

Staff	Position
Tim Kelly	District Administrator
Ed Matthiesen	District Engineer
Michelle Ulrich	District Attorney
Dawn Doering	Information & Education Coordinator
TJ Helgeson	Operations & Maintenance Coordinator
Tom Gile	Regulatory Affairs Coordinator
Diana Shonyo	Administrative Assistant

Table of Contents

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1. Reporting Requirements

About the Performance Report and Plan

The Coon Creek Watershed District (District) is required to annually report on a variety of activities. These requirements and the state and federal laws that mandate the reporting are listed here.

Watershed Act

The Minnesota Watershed Act (M.S. 103D.351) requires the District to prepare a yearly report of

- The financial conditions of the District
- The status of all projects
- The business transacted by the District
- Other matters affecting the interests of the District
- The District plans for the succeeding year

Metropolitan Water Management Act

The Metropolitan Water Management Act (M.S. 103B.231) requires a yearly report similar to the Watershed Act but stipulates specific financial and activity items to be reported.

- Roster and contact information for the Board and Advisory Committees
- Various financial expenditure information
- Permit and enforcement activity
- Annual plan
- Status of local plan adoption
- Summary of monitoring data
- Status of wetland banking

Federal Clean Water Act

The National Pollution Discharge Elimination System (NPDES) Program requires all MS4s to file an annual report of specific activities related to the Minimum Control Measures (MCMs) identified in the District Storm Water Pollution Prevention Plan (SWPPP).

Wetland Conservation Act

The Minnesota Wetland Conservation Act (M.S. 103A) requires the Board of Water and Soil Resources to report to the legislature on various activities related to the implementation of the Act. All LGUs that receive funding through the Natural Resource Block Grant (NRBG) program administered by BWSR are required to report on:

- The number of WCA applications
- Replacement plans
- Size of wetland impacts and losses
- Use of credits for replacement
- Exemption determinations
- Replacement wetlands
- Enforcement actions
- Administrative and technical training

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2. Coon Creek Watershed District At a Glance

Introduction

The Coon Creek Watershed District (District) was created in 1959. The Watershed encompasses 94 square miles of the northern edge of the Twin Cities Metropolitan Area and is located entirely within Anoka County. The Watershed Act (103D) and the Metropolitan Water Management Act (103B) provide the most basic authorities for the District. In 1990 the District Board adopted a mission statement to guide District programs and activities:

Mission

To manage groundwater and the surface water drainage system to prevent property damage, maintain hydrologic balance, and protect water quality for the safety and enjoyment of citizens, and preserve and enhance wildlife habitat.

Organizational Structure

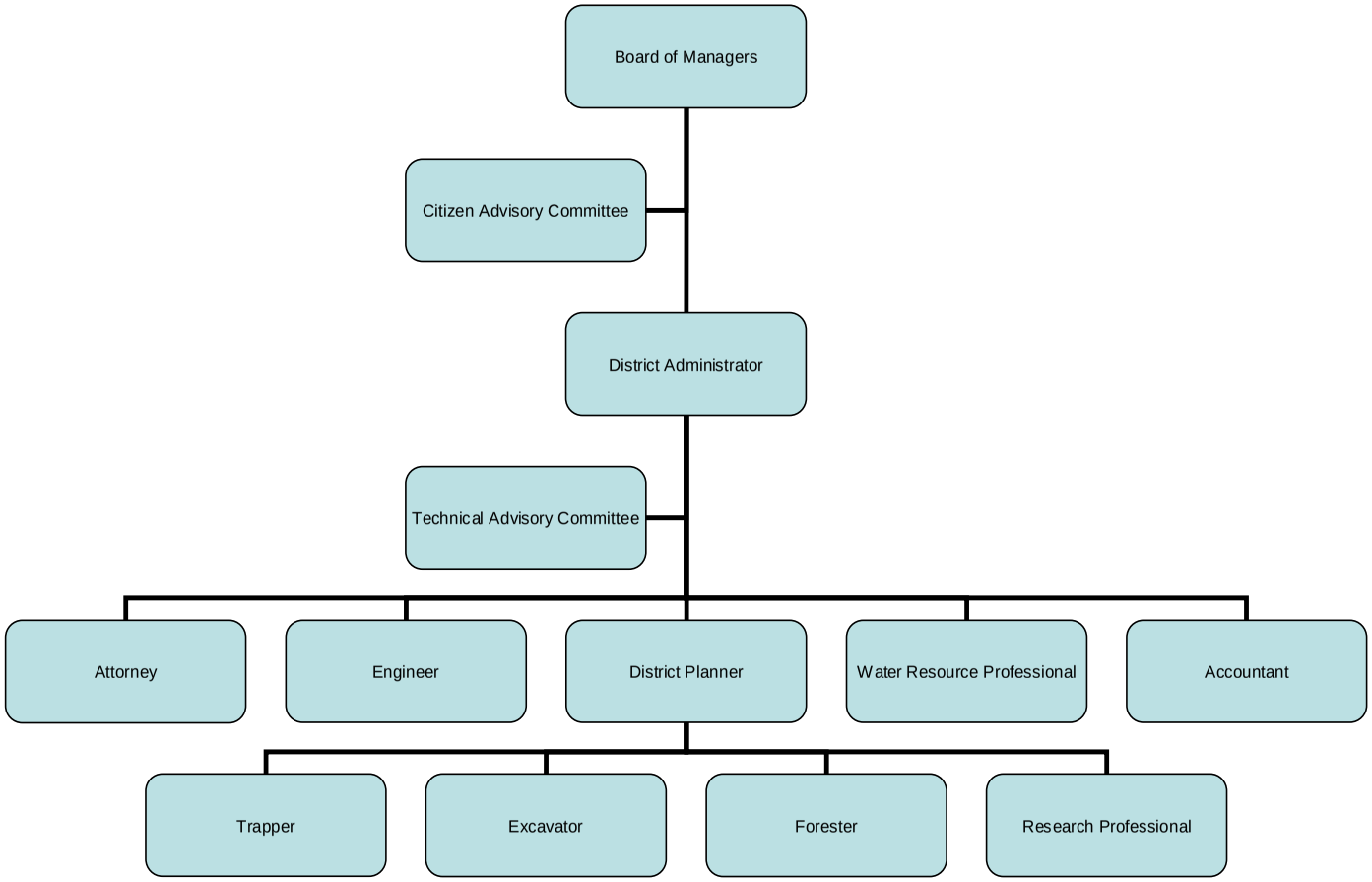
A Board of Managers administers the District. The Board is composed of five members representing different geographic areas of the District. Each Manager

- Serves a three-year term, staggered
- Is nominated by his or her local unit of government
- Is appointed by the Anoka County Board.

The watershed Board is statutorily authorized to employ professional assistants in carrying out its duties. The Board and staff provide leadership on a watershed-wide basis. Watershed-wide policy and direction are formulated and provided for field implementation through District and Municipal activities.

The current organizational structure is shown on the next page.

Coon Creek Watershed District Organizational Structure



District Business Model

As the lead agency in the watershed for water resource management, the Coon Creek Watershed District provides leadership in the protection, management, and use of water and related land resources.

The watershed uses a multiple-use land management approach to pursue eleven statutory goals (pp.67-94). To implement its mission and pursue the legislative goals, the Coon Creek Watershed District operates six programs and strategies:

1. Administration
2. Development Regulations and Issue Management
3. Operations and Maintenance
4. Planning, Programming, and Budgeting
5. Public and Governmental Relations
6. Research, Monitoring, and Data Collection

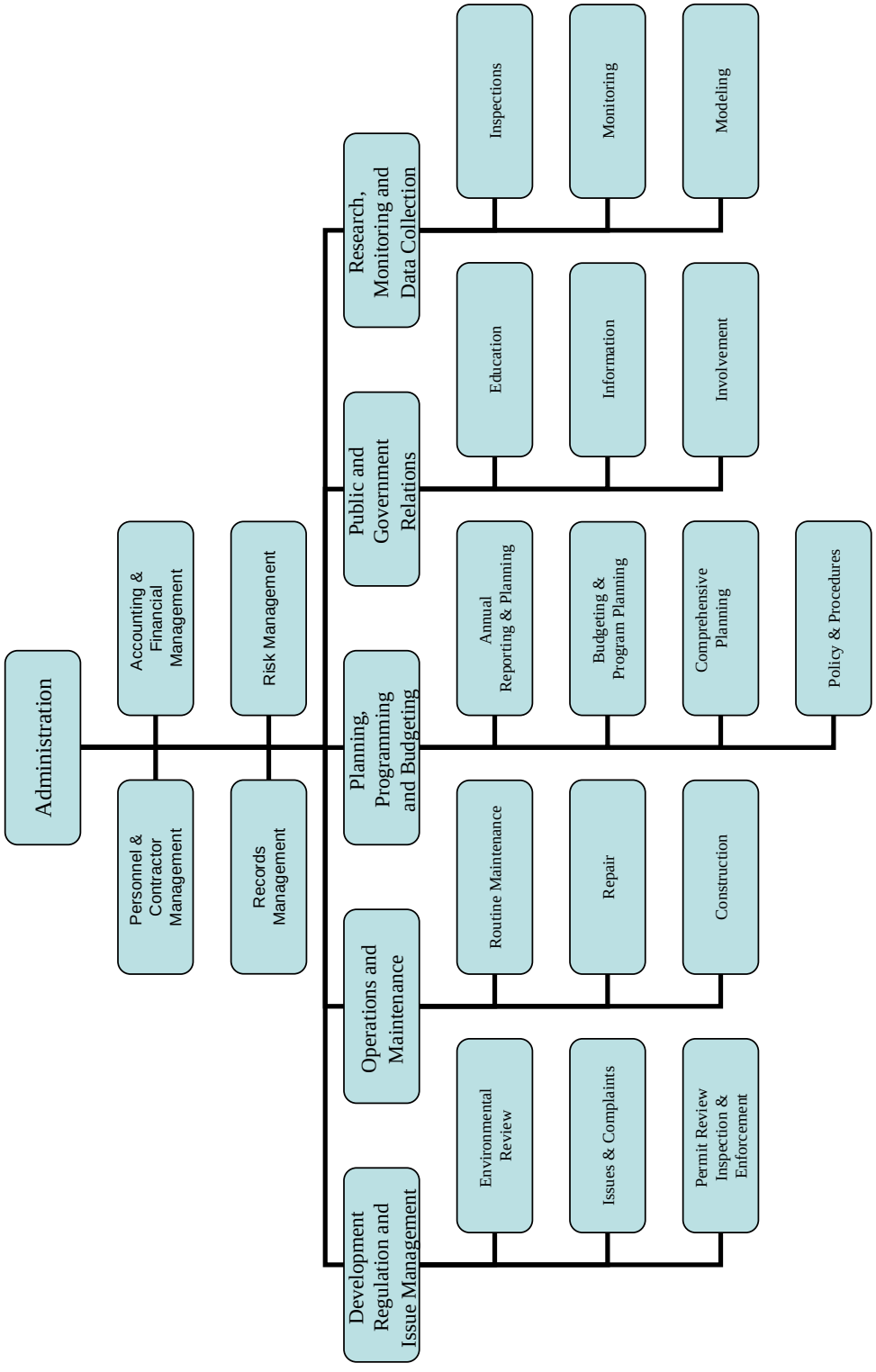
Link to District Budget

These programs are developed to provide better public service and sustainable land stewardship practices. They are also the context for budgeting and tracking District activities and tasks.

Adjustments to Comprehensive Plan

The annual goals for our 2009 Budget and Plan are based on the District Comprehensive Plan (approved by the Board of Water & Soil Resources in October 2004) and SWPPP (received by the MPCA in May 2006). Adjustments to some District objectives and outcomes are based upon more recent performance information and current and projected funding levels.

Coon Creek Watershed District Program and Activity Structure



State of the Watershed

Resource Conditions

The overall condition of the water resources within the Coon Creek Watershed is Potentially Serious. Potentially Serious Resource Conditions are those requiring immediate attention because they present serious problems or because there is no known management strategy or technology for dealing with them.

A summary of the overall resource condition is provided below.

Potentially Acceptable Resource Conditions

Potentially Acceptable Resource Conditions are those where existing conditions and projected levels of use can be sustained with current and expected future levels of management.

Potentially Deteriorating Resource Conditions

Potentially Deteriorating Resource Conditions occur when future management and technology are not expected to keep pace with demands for resource uses and/or resource conditions will deteriorate in the future.

Potentially Serious Resource Conditions

Potentially Serious Resource Conditions are those requiring immediate attention because they present serious problems or because there is no known management strategy or technology for dealing with them.

Measures	2005	2006	2007	2008	2009
Precipitation	Deteriorating	Serious	Serious	Serious	Serious
Groundwater					
Water Table	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
Stream/Ditch					
Hydrology	Acceptable	Acceptable	Acceptable	Deteriorating	Serious
Water Quality	Acceptable	Deteriorating	Deteriorating	Serious	Serious
Biology	Serious	Serious	Serious	Serious	Serious
Lakes					
Hydrology	Deteriorating	Deteriorating	Serious	Serious	Serious
Water Quality	Acceptable	Acceptable	Acceptable	Acceptable	Acceptable
Wetlands					
Hydrology	Serious	Serious	Serious	Serious	Serious
Vegetation	Deteriorating	Deteriorating	Deteriorating	Deteriorating	Deteriorating

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3. District Program Review

Coon Creek Watershed District is managed through six programs:

1. Administration
2. Development Regulation and Issue Management
3. Operations and Maintenance
4. Planning, Programming, and Budget
5. Public and Governmental Relations
6. Research, Monitoring, and Data Collection

ADMINISTRATION

Program Description

This program implements the approved policies of the Board of Managers, administers the financial affairs of the Coon Creek Watershed District, ensures the accountability of public funds, and serves the District financial needs.

Activities and Outcomes

The Administration Program consists of six activities:

Board of Managers
Records
Contract and Personnel Administration
Training and Seminars
Financial Management
Risk Management

Jim Haertel, BWSR, gives plaque honoring CCWD 50th Anniversary to Board President Byron Westlund

Board of Managers: Members, Officers, Contact Information and Terms

The District is governed by a Board of Managers. The Board is composed of five members representing different geographic areas of the District. Each Manager serves a staggered three-year term, is nominated by his or her local unit of government, and is appointed by the Anoka County Board.

Name		2009 Office	Appointed	Current Term Ends	Phone
Ted	Capra	Treasurer	2005	2011	(763) 783-8533
Warren	Hoffman	Vice President	2000	2010	(763) 434-5729
Bill	MacNally	At Large	2003	2010	(763) 951-2667
Joe	Marvin	Secretary	1993	2011	(763) 427-1131
Byron	Westlund	President	2006	2012	(763) 427-7500

Oath of Office

Minnesota Statute 103D.315 requires all Managers to take and Oath of Office. Each Manager is sworn in using the Oath of Office, when they are appointed. In addition, the Board re-administers the Oath of Office annually at the first Board meeting of each year.

Principle Place of Business

Minnesota Statutes 103D.321, Subd. 1 requires the District to designate a public facility within the watershed district as a principal place of business.

	Office
Address	12301 Central Avenue NE, Suite 100 Blaine, Minnesota 55434
Phone	763-755-0975
Fax	763-755-0283
Web	www.cooncreekwd.org
E-mail	info@cooncreekwd.org

Minutes

Minnesota Statute 103D.315, Subd. 5 requires that the District keep records of all business done and meetings held by the Board of Managers All Board meetings are recorded and minutes are prepared and presented to the Board for approval. Approved minutes are available at the District office and online at www.cooncreekwd.org >about us>board information>past minutes.

Records Retention & Disposal

Adopt Records Retention & Disposal Policy and procedure

Program	Record	Retention (Yrs)	2008	2009	2010	2011	2011
Administration	Expired Service Contracts	10		≤1998	1999	2000	2001
	Financial Details	6		<2003	2004	2005	2006
	Employment Apps & Resumes	1		<2008	2009	2010	2011
	Separated Personnel files	5		≤2003	2004	2005	2006
	Timesheets	6		<2002	2003	2004	2005
	Contracts & Leases	10		<1999	2000	2001	2002
Operations	Bids & specs	6		≤2002	2003	2004	2005
Planning	Budget work papers	2		≤2006	2007	2008	2009
I&E	Conference & Workshop Info	6		≤2003	2004	2005	2006

Meetings

The Board of Managers meets on the second and fourth Monday of each month (24 times per year). The meeting schedule is published in the Anoka County Union and on the District website (www.cooncreekwd.org). The meeting schedule is also stipulated in the District rule. Board meetings are at:

Address Bunker Hills Activity Center
550 Bunker Lake Blvd NW
Andover, MN 55304

Phone 763-757-3920

Fax 763-755-0230

In 2009 the Board met 22 times. One of those meetings (July) occurred after the down turn in the development industry and was cancelled because of lack of business for the Board. The second meeting, scheduled for the Monday after Christmas was cancelled due to a lack of business and to allow for the holiday.

Outcome	2008	2009 Forecast	2009 Actual	2010 Forecast	2011 Forecast	2012 Forecast
Number of Meetings	22	23	22	22	22	22

Board Business

The Board of Managers reviewed and acted on 282 separate items of business in 2009. These actions were up slightly (12%) from 2008. The greatest change was seen in information (129%) and discussion items (43%) as a result of the increased emphasis on water quality.

Outcome: Agenda Items	2008 Actual	2009 Forecast	2009 Actual	2010 Forecast	2011 Forecast	2012 Forecast
Policy	**144**	**140**	**167**	**160**	**163**	**165**
Permit Review	**66**	**60**	**44**	**40**	**45**	**50**
Discussion	**28**	**27**	**40**	**40**	**35**	**40**
Information	**14**	**15**	**32**	**25**	**25**	**20**
Total	**252**	**240**	**283**	**265**	**268**	**275**

Official Paper

Minnesota Statutes 103D requires that under certain circumstances, the District notice its meetings, hearings, and decisions. To meet the District goal of keeping the public informed District business is always noticed in the Anoka County Union & Shopper, Inc. (Anoka Union, Blaine Life, and Coon Rapids Herald)

Advisory Committee Appointments

M.S. 103D.331 requires that the Board of Managers annually appoint an advisory committee to advise and assist the Board on matters affecting the interests of the watershed district.

Measures	2008	2009	2010	2011	2012
Board Action					

ADMINISTRATION — Personnel

Staff - 2008	Position	FTE	Years of Service	2009 Training (Hrs)
Tim Kelly	District Administrator	1.0	20	16
Diana Shonyo	Administrative Assistant	1.0	1.5	8
Dawn Doering	Information and Education Coordinator	1.0	3.5	8
Ken Zeik	Water Resource Professional	0.6	5.0	8
Tom Gile	Regulatory Affairs Coordinator	1.0	1.5	48
T.J. Helgeson	Operations & Maintenance Coordinator	0.1	-	

District Attorney
Michelle Ulrich
1561 Lincoln Ave.
St. Paul, MN 55105
651-699-9845

District Engineer
Ed Matthiesen
Wenck Associates, Inc
1800 Pioneer Creek Ctr.
PO Box 249
Maple Plain, MN 55359-0249
(763) 479-4200

Solicitation of Interest Proposals for Service Providers

The District employs seven technical service providers. Minnesota Statutes 103B requires that the District *solicit interest proposals for legal, professional, or technical consultant services before retaining the services of an attorney or consultant or extending an annual services agreement at least every two years*.

Solicit interest proposals (SIP), Request Service Proposal (RFP), Review Rates (RR), Review Services (RS)

Service	Provider	2008	2009	2010	2011	2011
Engineering	Wenck & Associates	RS RR	**SIP**	RS RR	SIP	RS RR
Legal	Michelle Ulrich	RR	**SIP**	RR	SIP	RR
Accounting	Anoka County		RS RR		RS RR	
GIS	GIS Rangers			RS RR	RS RR	RS RR
Water Quality	Anoka Conservation District	RS RR	RS RR	RS RR	RS RR	RS RR
Trapping	Rick Johnson		SIP	RS RR	SIP	

Service	Provider	2008	2009	2010	2011	2011
Tree Services	P & C Tree Service		SIP	RS RR	SIP	

ADMINISTRATION Training

Measures	2008	2009	2010	2011	2012
Hours of Training	185	88	100	100	100
Number of classes/conferences	7	4	5	5	5

Official Depository

Minnesota Statutes 103D.351 requires the District to report its financial transactions, and Minnesota Statutes 103D.925 authorizes the District to issue warrants for payment of contracts and general expenses. To accomplish both payment, and reporting, the District must have a depository for its funds and uses the US Bank as its official depository.

Fund Equity

In the 2003 and 2004 audits, the State Auditor expressed concern about the size of the fund balances/fund equity being held by the District and recommended that:

1. Fund equity amounts be reviewed annually
2. The Board approves these designations, with acknowledgement in the Minutes.

Task	2008	2009	2010	2011	2012
Annual Review of Fund Equity	1/14/08	1/12/09	1/11/10	1/10/11	1/9/12
Board approval of fund equity designation	1/14/08	1/12/09	1/11/10	1/10/11	1/9/12
Amount	310,000	350,000	323,000	320,000	329,000
Acknowledgement in Minutes	Yes	Yes	Yes	Yes	Yes

Annual Financial Audits

The District utilizes the Minnesota State Auditor to perform the annual audit. Generally the audit team is the same as Anoka County. The timing of the District audit is subject to work load and availability of the State Auditor.

Task	2008	2009	2010	2011	2012
Status	Ordered	Ordered	Yes	Yes	Yes
Ordered	1/12/09	12/14/09	1/10/11	1/9/12	1/14/13
Entrance Interview	2/13/09	12/9/09			
Board review of Auditors comments	12/14/09	3/12/10			
Final Audit	12/15/09	4/13/10	4/30/11	4/30/12	4/30/13

Audit Year	Issues	Need	2008	2009	2010	2011	2012
2001	Accounting of Escrows (01-02)	Closer Coordination with Anoka County Finance – Escrows	Not Resolved	Not Resolved	Resolve		
2004	Capital Assets Retirement (04-	Retire assets that are fully	Not Resolved	Resolved			

Audit Year	Issues	Need	2008	2009	2010	2011	2012
	01)	depreciated					
2006	Preparation of Financial Statements (06-01)	Internal preparation of annual financial statements	Not Resolved	Resolved			
2007	Audit Adjustments (07-01)	Ensure that financial reports adjustments are reported according to GAAP	Not Resolved	Resolved			

Financial Condition of Coon Creek Watershed District

Assets	YE 2007 Amt	Pct	Chng	YE 2008 Amt	Pct	Chng
Cash & Investments	930,324	94%	-65%	813,578	93%	-13%
Receivables	20,482	2%	231%	21,234	2%	4%
Due from Other Governments	24,907	3%	25%	23,806	3%	-4%
Fixed Assets	18,124	2%	-15%	19,455	2%	7%
Total Assets	**993,837**	**100%**	**-63%**	**878,073**	**100%**	**-12%**
Liabilities						
Accts Payable	1,859	0%	143%	22,232	1%	1096%
Contracts Payable	17,182	1%	6%	-	0%	-100%
Salaries Payable	6,260	0%	52%	8,823	1%	41%
Due to Other Governments	59,278	4%	-23%	82,550	5%	39%
Deferred Revenue	20,482	1%	52%	21,234	1%	4%
Funds Held in trust	1,568,554	94%	-9%	1,547,607	92%	-1%
Compensated Absences		0%	#DIV/0!		0%	#DIV/0!
Total Liabilities	**1,673,615**	**100%**	**-9%**	**1,682,446**	**100%**	**1%**
Fund Equity						
Investment in Gen fixed Assets	18,124	-3%	-15%	19,455	-2%	7%
Fund Balances	-697,902	103%	-184%	-823,828	102%	18%
Total Fund Equity	**(679,778)**	**100%**	**-180%**	**(804,373)**	**100%**	**18%**
Total Liabilities & Fund Equity	**993,837**	**100%**	**-63%**	**878,073**	**100%**	**-12%**

An Assessment Of Changes In Fund Balances & Expenditures

	Fund 509 Administrative	Management	Operations & Maint	Total: Proj 09
Current Balance 1/1/09	**$ 203,536**	**539,078**	**$ 24,301**	**$ 766,915**
Projected Additional Income (Taxes Rcvbl)		**$ 542,213**	**$ 30,000**	**$ 572,213**
Total	**$ 203,536**	**$ 1,081,291**	**$ 54,301**	**$ 1,339,128.00**
Forecast: Remaining Operating Costs				
Salaries & Benefits		351,006		351,006
Professional Services		379,478		379,478
Operating Expenses		72,402		72,402
Routine Maintenance			44,035	44,035
Repair		0		0
Construction		32,606		32,606
Monitoring		28,328		28,328
Other		20,142		20,142
Capital Equipment		13,506		13,506
Total Forecast: Operating Cost-Balance	**0**	**897,468**	**44,035**	**941,503**
Projected Year-End Balance	**$ 203,536**	**$ 183,823**	**$ 10,266**	**$ 397,625**

Implications of Recent Administrative Trends for the Management of the Watershed (2010 to 2012)	
Trend	**Implications**
Number of Meetings per Year	While the amount of business the Board conducts has actually increased, the need to always meet twice per month has decreased
Annual Audit	The amount of detail and the audit standards from the GASB have led to increased time and complexity in preparing and reporting for the annual audit.
Smaller Year End Balances/ Increased cash demands for water quality and ground water management	The District has resolved its excess fund balance issue expressed by the State Auditor. That decrease has in turn restricted the funds available to respond to disasters and emergencies such as the tornado damage of 2008

Expectations about the future for Administration of the Watershed	
Expectations	**Explanation**
Fewer Board Meetings with longer agendas	The District and the public can expect that the Board of Mangers will convene fewer meetings in 2010 for at least part of the year
Increased time involved in annual audit	With staffing changes and constraints at both the County and the OSA, increased time will be devoted to preparing and managing the audit
More Involved Budget Discussions/Increased Taxes	While the Board of Managers has decreased its property tax levy each of the last three years to address of State Auditors' concern about excess fund balances and to ease District impact during the downturn in the national and local economy, it may have over-corrected. However, any discussion of an over correction needs to offset by a re-evaluation of overall responsibilities, needs, and priorities of the watershed district.

Immediate Needs (2010 – 2011)	
Need	**Explanation**
Review of Economics and Financing of Watershed Operations	The future demands on water resource operations will cost. Any reasonable increase in taxes or grants will most probably only fund a small portion of the physical work and monitoring that will need to be done. A review of economic and funding options for District operations would be appropriate.

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DEVELOPMENT REGULATION & ISSUE MANAGEMENT

PROGRAM DESCRIPTION

The purpose of development regulation is to evaluate, permit, and monitor plans and programs affecting the water and related land resources of the District in an orderly and informed fashion.

The Development Regulation and Issue Management Program consist of five activities:

1. Environmental Review which includes comments on DNR and Corps of Engineers permits
2. Permit Inspection and Enforcement
3. Permit Review
4. Permits

Description
This activity reviews and comments on plans, permits, assessments and studies issued by federal, state, and local units of government for the completeness, accuracy, and consistency of water resource proposals relative to District goals, objectives, and standards.

Measures	2008	2009	2010	2011	2012
Number of Environmental Reviews	2	0	1	2	1
DNR Permits	2	1	2	2	2
EAWs	1)Hwy 10, 3rd Lane Addition 2) Sports Town USA				

DEVELOPMENT REGULATION Permit Inspection & Enforcement

Description

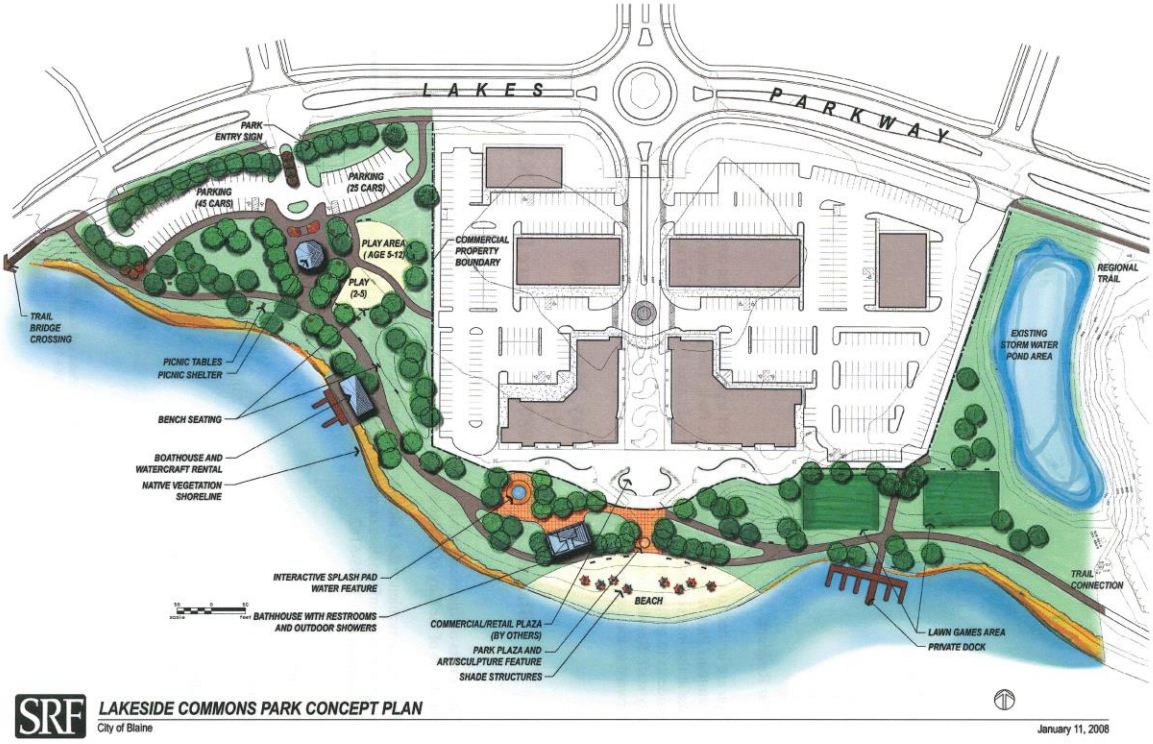
This activity ensures compliance with permit requirements and the goals, objectives and rules of the District. The activity is intended to:

1. Ensure that the approved plan is implemented
2. Provide the landowner with technical assistance as needed
3. Provide a means to determine if changes to the plan are necessary
4. Observe and document deviations from the plan as they occur

Violation	2008	2009	2010	2011	2012
Number of Inspections	133	190	185	185	190

Enforcement Issues

Violation	2008	2009	2010	2011	2012
Failure to comply with permit or approved plan	0	2	2	2	2
Failure to maintain or repair BMPs or STPs	0	11	10	10	10
Failure to maintain site in Good condition	0	13	10	10	10
Failure to meet standards	6	4	4	3	4
Failure to use BMPs to stop erosion & sedimentation	2	11	10	10	10
False information	0	0	0	0	0
Illicit Connection	0	1	3	2	3
Illicit Discharge	0	0	1	1	1
Obstruction	0	0	0	0	0
Submittal of As Built	0	0	0	0	0
Wetland Drainage	0	0	0	0	0
Wetland Excavation	0	0	0	1	0
Wetland Fill	4	7	6	5	6
Work without a permit	1	0	1	2	1
Total	13	49	47	46	47



Description

This activity involves public review of permit applications and findings relative to District standards. It involves monitoring, evaluating and permitting plans and programs affecting the water and related land resources of the District.

Measure	2008	2009	2010	2011	2012
Number of Pre-application meetings	19	**17**	**15**	16	17
Number of Permit Applications	78	**111**	**105**	110	115
Number of Permit Reviews by Board	67	**44**	**40**	45	50

DEVELOPMENT REGULATION — Permits

Description
This activity regulates land-disturbing activities affecting the quality, course, current or cross section of ditches and watercourses.

Measure	2008	2009	2010	2011	2012
Number of Pre-Construction Meetings	16	2	2	3	5
Number of Best Management Practices	107	176	170	175	180
Certificates of No-Loss	1	3	3	2	4
WCA Exemptions	0	3	3	2	3
Variances	0	0	0	0	0
Permits	20	23	22	23	25
Permit Renewal/ Extension	1	8	6	4	4

Implications of Recent Regulatory Trends for the Management of the Watershed	
Trend	**Implications**
Decline in the number of Environmental Reviews	Fewer large projects requiring EAWs and fewer projects that require state permits.
Increase in Issues and Complaints	More staff time will be dedicated to issue and complaint management. Particularly in the areas of compliance, water quality, wetlands and availability and maintenance.
Increasing emphasis on water quality and groundwater	Analysis, planning, and review of sites for development or modification will require an increased awareness of the overall hydrology of the site, the effect of the proposal on the local hydrology and how to integrate existing hydrologic tendencies into the proposal.
Decrease in the number of permit reviews/ Increase in project complexity	While the number of projects requiring a permit or review as decreased the complexity of the reviews resulting from drainage, water quality and wetland issues has increased as has the need to exercise care and provide assistance to applicants seeking approval.

Expectations about the future for Regulation of the Watershed (2010 to 2012)	
Expectations	**Explanation**
Increased enforcement and preventive inspections	With the drought conditions and the development that is occurring, increased time per application can be expected.
Number of applications may increase slightly	There are several smaller projects that are being considered within the watershed. Their success may depend on early involvement by the watershed district in designing the stormwater system.
Increased complexity in review and approval	With the drought, complexity has increased with concerns about water levels and water availability.

Immediate Needs (2010 – 2011)	
Need	**Explanation**
Amend rules to require 1.5” of infiltration from 1”	

OPERATIONS & MAINTENANCE

PROGRAM DESCRIPTION

The purpose of the Operations and Maintenance program is the planning, design, construction and maintenance of the District ditch system and water control structures, and to preserve the location, character, and extent of the District ditch and conveyance system.

The Operations & Maintenance program consists of the following activities:

1. Annual Inspections
2. Issues & Complaints
3. Construction
4. Repair
5. Routine Maintenance
6. Demonstration Projects

Dam on Sand Creek (Ditch 41), Coon Rapids, November 2009

Structure on Ditch 58

Description

The purpose of the annual inspection is to assess the general condition of the entire drainage system for identification of maintenance needs. Inspections vary in detail and can range from a windshield inspection of the District public drainage system to taking elevations and cross sections every 100 feet, photographing the ditch channel, and comparing to established performance standards based on functional classification of the ditch.

Measure / Outcome

Measures	2008	2009	2010	2011	2012
Inspect 20 % of the system	Ditch 58 Ditch 60	Ditch 39	Ditch 20 Ditch 52 Ditch 57 Lower Coon Ck. Woodcrest Ck	Ditch 59 Ditch 23	Ditch 11 Ditch 39 Ditch 44
Miles Inspected	11.6	3.27	23	22	23
Crooked Lake Outlet	Yes	Yes	Yes	Yes	Yes
Lake Andover Outlet	Yes	Yes	Yes	Yes	Yes
Ditch 58 Structures	Yes (3)	Yes (5)	Yes (5)	Yes (5)	Yes (5)

OPERATIONS & MAINTENANCE Issues

Description

This activity investigates and responds to unanticipated and unplanned circumstances, events or conditions that may affect the Water and related land resources of the watershed or District operations.

2009 Issues

Measures	2008	2009	2010	2011	2012
Bank Stabilization	0	7	5	5	5
Beaver	15	8	7	10	10
Compliance/ Illicit Discharge	17	27	25	25	25
Emergency Work	1	0	0	1	1
Maintenance	1	5	5	5	5
Easement	0	0	1	1	1
Erosion	13	6	9	9	9
Flooding	3	6	5	3	3
Obstruction & Trees	19	29	30	30	30
Other					
Water availability	3	4	5	5	5
Water quality	5	5	5	5	5
Total Issues	**76**	**97**	**97**	**99**	**99**

Crown Point bank stabilization fall 2009

Description

This activity involves the creation of new water management facilities or the increase in capacity of existing systems. The Coon Creek Watershed District may fund Creek and ditch bank stabilization through a process involving inspection, diagnosis of cause and design of a stabilization method which gives preference to bioengineering, a determination of problem significance, and contracting work.

Measures	2008	2009	2010	2011	2012
Number of	0	2	2	2	2
Bank Stabilization projects		Creekside Trailer Park Egret Bld x Creekside Trailer Park bank stabilization Crowne Point bank stabilization	Lower Coon Creek Coon Rapids High School Stormwater retrofit Sand Creek Stormwater Retrofit	Sand Creek	

Timberline Structure Repair, 2009

Description
Activity involves restorative construction work typically involving forestry practices and or heavy excavating equipment. The intent of the activity is to restore all or a part of a drainage system as nearly as practicable to the same condition as originally constructed and subsequently improved.

Measures	2008	2009	2010	2011	2012
Number of Projects	1	2	2	2	2
Projects	1) Ditch 41/ Sand Creek tornado clean up	1) Ditch 60: Veg Removal 2) Ditch 58: Timberline Structure	1) Ditch 39: Culvert 2) Ditch 60: Veg Removal 3) Ditch 59:	Ditch 37 Ditch 41	Ditch 20 Ditch 54 Ditch 57

Clearing downed trees at Erlandson Park, May 2009

Description

This activity is to ensure the flow of water in a manner that does not create threats to public health, safety, or welfare. Program activities include the following:

Measures	2008	2009	2010	2011	2012
Beaver	19	10	10	15	10
Obstructions	7	5	5	6	5
Trees	23	35	40	35	40
Projects	4	8	8	7	9
Project Names	1) Down fall, Lower Coon Creek 2) Ditch 41-8 x Ditch 60-1 Tree removal 3) Ditch 58 at Crosstown Tree removal 4) Tree removal Ditch 39	1) Lower Coon Creek x Old Coon Rapids City Hall 2) D-41:118th & University 3) D-41 at Foley Blvd 4) Lower Coon Creek So CR Blvd 5) D-11 Tippecanoe St 6) Lower Coon Creek in Coon Hollow 7) D-41 Happy Acre Park 8) Sand Creek x BNRR dam			

Pervious Concrete, National Sports Center Super Rink, October 2009

Description

Demonstration projects involve the application, construction, or installation of new or innovative practices to treat water quality. The District will encourage and may contribute funding to such projects.

Measures	2008	2009	2010	2011	2012
Number of Projects	3	3	3	3	3
Project Names	1) Blaine City Hall Fire Barn Pervious Concrete & Rain garden 2) Ultrasonic Treatment of 2 Stormwater Ponds 3) Club West rain gardens	1) Crooked Lake rain gardens 2) Goodhue St rain garden 3) National Sports Center Super Rink Pervious Concrete	1) Crooked Lake rain gardens 2) Coon Rapids High School 3) Sand Creek Retrofit		

Implications of Recent Operations and Maintenance Trends for the Management of the Watershed	
Trend	**Implications**
Decreased Water Availability	The increasing scarcity of water is leading to minimum or no flow situations, drops in lake elevations, and the general drying out of wetlands and ponds which serve aesthetic purposes.
Increased trees and potential obstructions in channel	As water levels drop or flows become variable, trees are becoming more prone to wind throw or heaving resulting in more debris in the channel. Under normal flow conditions, this material should be removed immediately. During low flow conditions downed material provides an opportunity to detain or retain water for aesthetic and fisheries purposes as well as groundwater recharge.

Expectations about the future Operation and Maintenance of the Watershed (2010 to 2012)	
Expectations	**Explanation**
Increased emphasis on water conservation; in channel & in use	If the drought continues, the amount and use of water appropriated both from the creek and its tributaries and the shallow aquifer connected to the creek will become an emphasis for monitoring and enforcement.
Increased variation in timing or removal of channel obstructions	If and when obstructions are removed may depend on the obstruction's contribution to detaining or retaining the flow of water without damaging the creek bank or structures.

Immediate Needs (2010 – 2011)	
Need	**Explanation**
Evaluate the potential impacts for water conservation and flooding by boarding culverts	In 2009 the District boarded culverts in four locations in Blaine. The effort appeared to have some success and if performed over a larger area could significantly contribute to recharging surficial groundwater levels.
Develop a contingent obstruction removal policy	Guidance is needed for the conditions, criteria, and circumstances for timing of the removal or modification of obstructions.

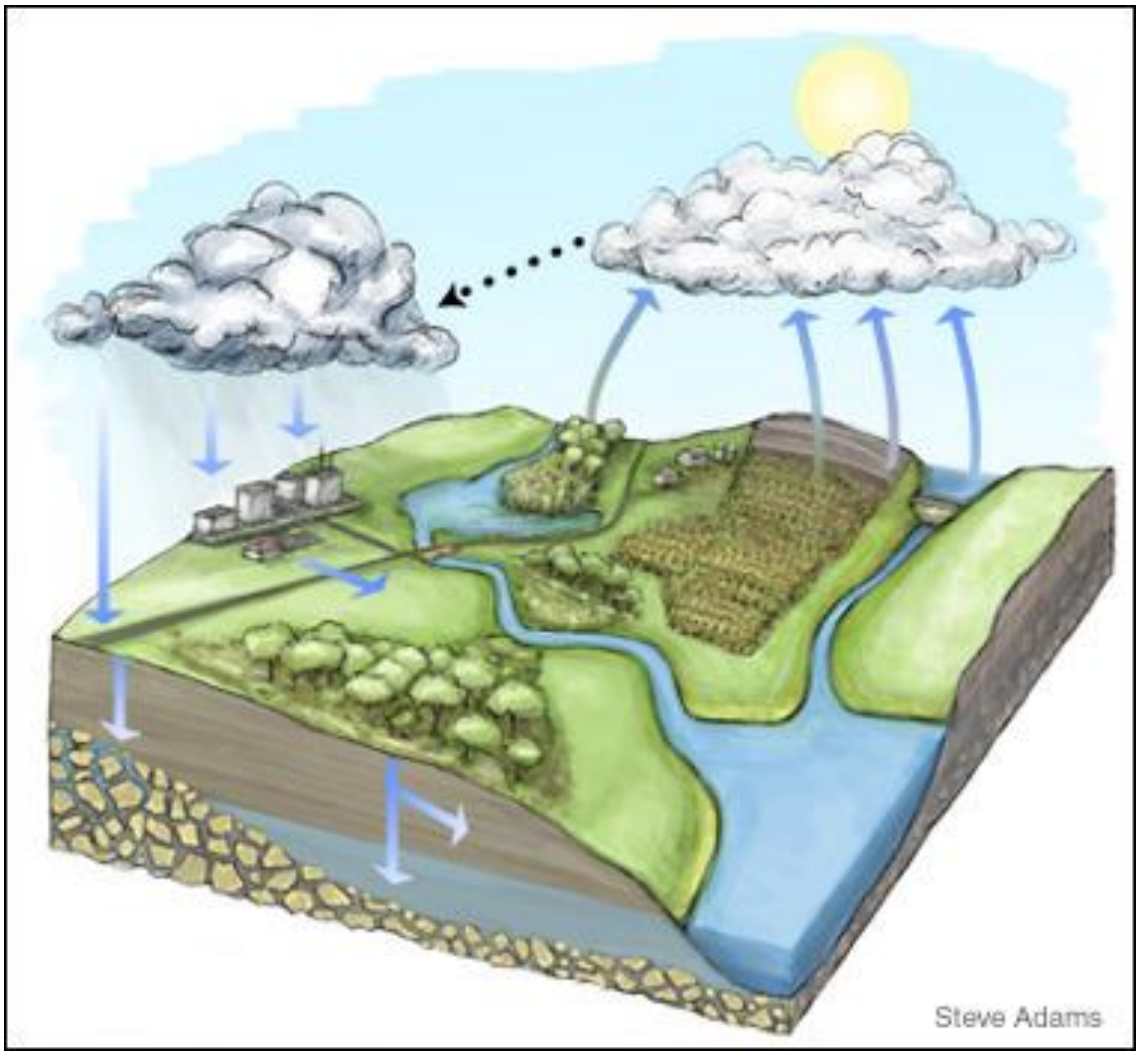
PLANNING, PROGRAMMING, & BUDGETING

PROGRAM DESCRIPTION

The purpose of the program is to coordinate the planning, prioritizing, and financing of District programs and activities.

The Planning program consists following activities:

1. Annual Assessment, Reporting, and Planning
2. Budgeting and Program Planning
3. Comprehensive Planning
4. Modeling
5. Policy and Procedures



PLANNING, PROGRAMMING, & BUDGETING ___Annual Assessment, Reporting, & Planning

Description
This activity presents basic statistics on the accomplishments and/or progress of District operations and activities in pursuing and achieving goals. It serves as the basis for accountability through quarterly objectives and through financial and program goals. Overall, the activity provides context for understanding the physical, social, and managerial trends and concerns affecting the District that may not have been anticipated in the Comprehensive Plan and the basis for accountability.

Specific tasks under this activity involve preparation of an annual report and work plan for implementing the District Comprehensive Plan approved by the BWSR and the District Storm Water Pollution Prevention Plan (SWPPP) approved by the MPCA.

Measures	2008	2009	2010	2011	2012
Annual Report & Plan Approved	Yes	Yes	Yes	Yes	Yes
MPCA Annual Report Approved	Yes	Yes	Yes	Yes	Yes

Drought conditions shown by low water in stormwater pond, Andover, MN June 2009

PLANNING, PROGRAMMING, & BUDGETING — Budgeting & Program Planning

Description

The budget process and resulting budget describes the programs and projects the public will fund in pursuing the District Mission.

The budget process involves 11 steps detailed in District policy which begin with adoption of a budget calendar, then a review of District strengths and weaknesses and operating environment, followed by a tour of past and potential projects, public review, and ends with a public hearing and adoption of the succeeding-year budget in September.

Measures	2008	2009	2010	2011	2012
Annual Report	6/13/08	3/23/09	4/12/10	3/21/11	3/23/12
Budget Calendar	5/23/08	4/13/09	4/12/10	4/11/11	4/13/12
Review of Financial Status	5/27/08	4/27/09	4/26/10	4/25/11	4/27/12
Review Program Goals &Commitments	5/27/08	4/27/09	4/26/10	4/25/11	4/27/12
Establish Budget Guidelines and Assumptions	6/27/08	6/22/09	6/14/10	6/13/11	6/11/12
District Tour	7/18/08	7/20/09	7/19/10	7/18/11	7/16/12
Project & Program Initiatives	7/25/08	7/27/09	7/26/10	7/25/11	7/23/12
Budget Review and Deliberation	8/8/08	8/10/09	8/9/10	8/8/11	8/13/12
Advisory Ctty Review and Comment	8/15/08	8/11/09	8/10/10	8/9/11	8/14/12
Public Hearing & Budget Adoption	9/12/08	9/14/09	9/13/10	9/12/11	9/10/12
Levy Certification	12/12/08	12/14/09	12/13/10	12/12/11	12/10/12

PLANNING, PROGRAMMING, & BUDGETING Comprehensive Planning

Description

The Comprehensive Plan takes its direction from Minnesota law and the District Mission Statement. It is the guiding document for program and capital facilities management and provides context and purpose to near-term choices, and assesses the future consequences of those choices.

Tasks under this activity involve maintaining and updating the District Comprehensive Plan required under the Watershed Act (103D) and the Metropolitan Water Management Act (103B), and the District Storm Water Pollution Prevention Plan (SWPPP) which serves as the District NPDES permit under the federal Clean Water Act.

Measures	2008	2009	2010	2011	2012
Comprehensive Plan					
Comp Plan			Develop 2010-2020 Comp Plan	Agency Review & approval	
Updates to land uses & cover		Geographic Information System Initiative			
Updates to the hydrology of the watershed	Infiltration Study XP-SWMM Update	TP-40 Input, Precipitation Analysis	Evapo-transpiration Study	Soil moisture study	
Ditches & Watercourses	Electronic Ditch Profiles Ditch 58 Ditch 60	Electronic Ditch Profiles Ditch 58 Ditch 60	Electronic Ditch Profiles Ditch 39 Ditch 59	Electronic Ditch Profiles Ditch 37 Ditch 41	Electronic Ditch Profiles Ditch 20 Ditch 54 Ditch 57
Floodplains	XP-SWMM Update	XP-SWMM Calibration	Review Coon Rapids Flood Study Review	COE & FEMA Review Coon Rapids Flood Study Review	
Groundwater		Anoka County Groundwater Assessment	Geologic Atlas	Geologic Atlas	Geologic Atlas
Stormwater	XP-SWMM Update	National Sports Center The Lakes Sand Creek Retrofit	The Lakes Coon Rapids High School Lower Coon Creek Retrofit	Coon Rapids High School	Anoka-Hennepin School District lands
Subwatershed Plans	Crooked Lake	The Lakes	Ditch 39 The Lakes	Ditch 37	Ditch 54 *(continued)*

Measures	2008	2009	2010	2011	2012
Water Quality		Crooked Lake The Lakes	The Lakes National Sports Center Coon Rapids High School Anoka-Hennepin School District lands	Coon Rapids High School Anoka-Hennepin School District lands	Anoka-Hennepin School District lands
Wetlands		MR 8420 Update & Training	Functional Capacity Study	Functional Capacity Study	
Lakes	Crooked Lake	Crooked Lake Wrap up The Lakes	The Lakes	Ham Lake	Ham Lake
Wildlife			Tubercled rein-orchid		
Plan Amendments					
Boundary	Rice Creek WD & Upper Rum River WMO	Lower Rum River WMO, Andover	Six Cities WMO in Blaine & Coon Rapids	Lower Rum WMO, Coon Rapids	
Rule	Draft Rules	Adoption	Review	Amend	
NPDES Permit					
Storm Water Pollution Prevention Plan (SWPPP)			Coordinate SWPPP review and development with Comp Plan revisions	Permit expires 5/31/11, Prepare new SWPPP	Prepare new SWPPP
Anti-degradation/ Water Quality Plan			Update Anti-degradation plan		
Impaired Waters Study/TMDL		X	X	X	
Minimum Impact Design Standards (MIDS)		Participate in workgroup	X	Rule Development	
Tiered Aquatic Life Uses (TALU)		Participate in workgroup	X	Rule Development	
Watershed Approach		Participate in workgroup	X	X	X
Watershed Subcommittee - Stormwater Steering Committee	X	X	X	X	X

Comprehensive Planning — Local Water Planning

The District reviews and either comments or approves a variety of local water planning efforts:

Local Water Plan: Required by the Metropolitan Water Management Act (must be consistent with the Watershed District Comprehensive Plan).

Stormwater Management Plan: Stormwater chapter required as part of the City Comprehensive plan.

Stormwater Pollution Prevention Plan (SWPPP): Required by the NPDES program under the federal Clean Water Act.

Nondegradation/Water Quality Plan: Required under the NPDES program under the federal Clean Water Act.

City	2008	2009	2010	2011	2012
Number of Local Plans reviewed	5	8	0	5	5
Andover	Comprehensive Plan Stormwater Update	Stormwater Management Plan Local Water Management Plan	Participate in CCWD Comp Plan Development	Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan
Blaine	Comprehensive Plan Stormwater Update	Stormwater Management Plan Local Water Management Plan	Participate in CCWD Comp Plan Development	Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan
Columbus	Comprehensive Plan	Comprehensive Plan	Participate in CCWD Comp Plan Development	Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan
Coon Rapids	Comprehensive Plan Stormwater Update	Stormwater Management Plan Local Water Management Plan	Participate in CCWD Comp Plan Development	Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan
Ham Lake	Comprehensive Plan	Local Water Management Plan/SWPPP	Participate in CCWD Comp Plan Development	Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan

Comprehensive Planning — Local Water Plan Status

Plan	Andover	Blaine	Columbus	Coon Rapids	Ham Lake
Local Water Management	2005	2009	2009	2003	2009
Stormwater Management	2009	2009	2009	2003	2009
SWPPP	2006	2006		2006	2006
Nondegradation Report	2007	2007	Not Required	2007	Not Required
Wellhead Protection	2007	2008	Not Required No public wells	2007	Not Required No public wells
Wetland Management				2004	

Description

This activity models the hydrology of surface water flows within the watershed to provide an accurate simulation of District hydrology and water quality for assessing and determining management needs and actions. The activity also involves assessing the overall hydrology of the Watershed to gain insight into factors affecting surficial ground water levels and the amount of water lost to potential evapotranspiration (PET).

Measure / Outcome

Model	2008	2009	2010	2011	2012
XP-SWMM	Update			Update	
P8			Update		
Water Budget		Update/Refine			Update

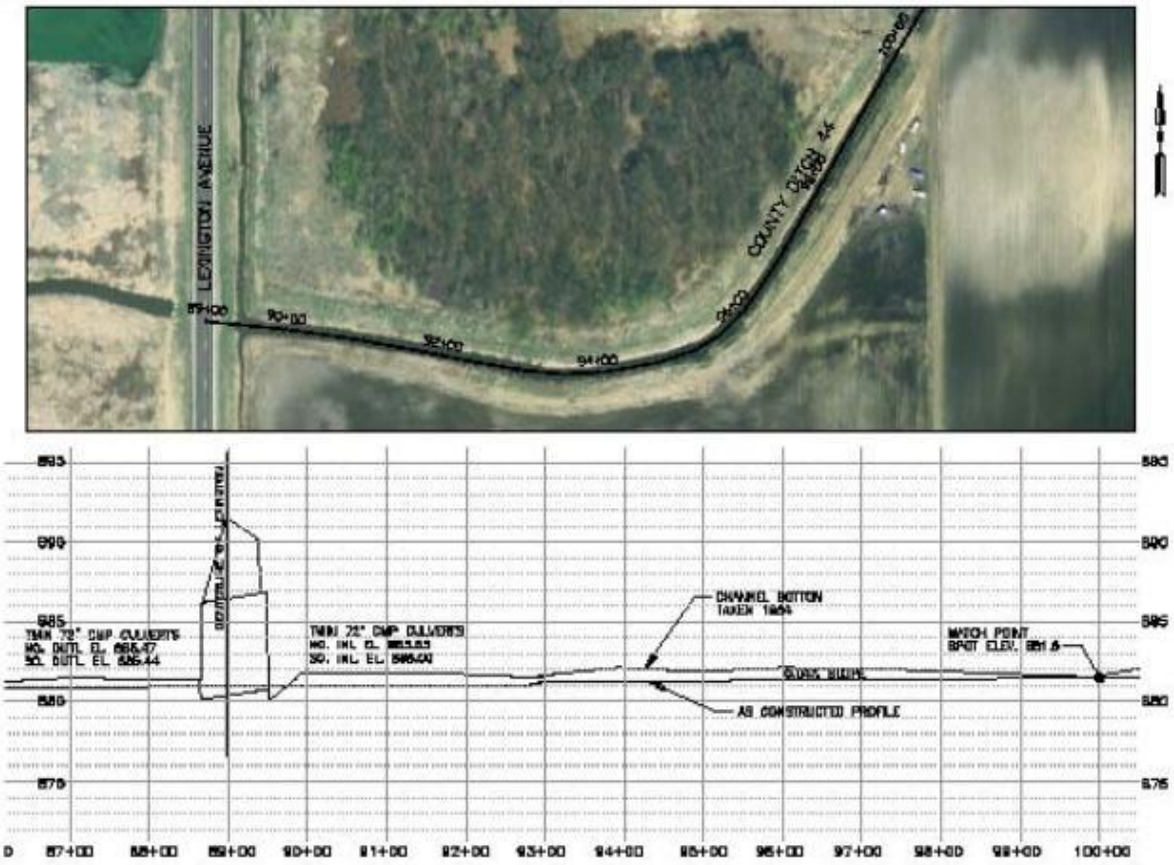
PLANNING, PROGRAMMING, & BUDGETING Policy and Procedures

The policy and procedures manual is intended to provide guidance, continuity, and consistency in District operations and activities. The manual is the principal source of specialized guidance and instruction for carrying out the direction issued in the program handbook. The manual may include significant procedural direction.

The program manual provides guidance, continuity, and consistency in District operations and activities. It contains the legal authorities, objectives, policies, responsibilities, instructions and guidance needed on a continuing basis by District staff to plan and implement assigned programs and activities.

Measures	2008	2009	2010	2011	2012
Policy & Procedure Manual	1	2	2	1	1
Policies	Revise Bill payment procedure	Records Retention and Disposal Enforcement Manual	By Laws Operations & Maintenance Manual Guidance for removal of obstructions during periods of low flow	Development Regulation & Review Contracting	

PLANNING, PROGRAMMING & BUDGETING Electronic Ditch Profiles



Description

Electronic media is rapidly becoming the standard of design and planning through GIS and CAD. All of the public ditch data need to be converted to electronic format. Plan sets are registered to CAD and GIS with current elevations and airphotos. Plan sets not reviewed and approved by DNR would be submitted. This is a 5-year program coordinated with our NPDES inspection requirements.

	2008	2009	2010	2011	2012
Ditch		Ditch 11 Ditch 44	Ditch 58 Ditch 60	Ditch 54 Ditch 57	Ditch 20 Ditch 37 Ditch 41

Implications of Recent Planning Trends for the Management of the Watershed	
Trend	**Implications**
Increasing need to detail budget and work plan	State audit requirements have become more detailed and more stringent requiring increased detail in documenting the District budget, needs and expenditures.
Increasing complexity in water quality regulations	MPCA is currently involved in at least seven efforts which will have regulatory requirements for the District. These efforts do not include any impairments or subsequent TMDLs which currently exist or may occur in the future.
Increasing focus on Groundwater	In addition to water quality, many issues appear to have their origin in groundwater.

Expectations about the future Planning of the Watershed (2010 to 2012)	
Expectations	**Explanation**
Conflict with MPCA	The current trend and emphasis on water quality does not take into account the impact of the drought nor the effect of the decline in groundwater on surface waters of the District. The District could continue to be held accountable for not achieving water quality standards for turbidity, TSS, and potentially DO when the root of the problem is decreased and declining flows.
Audits could take longer to complete or at least require more staff time in a shorter period	Audit standards appear to change annually which affects the reporting and formatting of District records provided for analysis and reporting.

Immediate Needs (2010 – 2011)	
Need	**Explanation**
Complete Hydrologic Records	Continue to monitor

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PUBLIC AND GOVERNMENTAL RELATIONS

PROGRAM DESCRIPTION

The purpose of the public and governmental relation program is to ensure that the continuing planning and management of the Coon Creek watershed is responsive to the needs and concerns of an informed public and to coordinate policies and programs of the local, state, and federal government agencies to achieve consistency with the plan.

A program consisting of three activities has been developed to carry out District policies. The components are:

1. Education
2. Information
3. Involvement

In practice, overlap will occur among these three components; all information is educational in nature, and education requires involvement.

Great Coon Creek Clean Up event, Blaine/Ham Lake Rotary Club, October 2009

Jefferson Elementary students at Metro Children's Water Festival, September 2009

Description

Major needs of the District are: greater public awareness of watershed water resources, appropriate use of water resources and the issues and conflicts that arise when managing those resources. Increasing awareness is the first step in enhancing public commitment to sound natural resource management. The District also makes several presentations each year to students and civic organizations. These presentations focus on water resources, the establishment of the District, its purposes and policies, and issues facing the watershed. The response from these groups has been more positive since the discussion was redirected from a scientific evaluation of District issues to a more policy-oriented approach.

District education activities involve:

Measures	**2008**	**2009**	**2010**	**2011**	**2012**
Number of Conferences	5	13	15	15	15
Total public education efforts	87	183	188	191	190
Number of presentations	2	15	20	20	20
Number of materials/events	21	22	25	25	25
Education Grants	4	2	3	4	4
	-Fishing Line Recycling -Pond study Kit -Water quality activity pack -2 Stormdrain stenciling event	Transport to Metro Children's Water Festival Blaine Native Plant Guide			

Erosion Control workshop, Savannah Grove, Blaine; May 28, 2009

Description

Public information is essential in any public capital or regulatory program. It is also a prerequisite to both public education and public involvement. To be able to participate and to sense when that participation will be most effective, individuals must first know the issues and the decisions to be made.

Means

Measures	2008	2009	2010	2011	2012
Number of articles	18	18	18	18	18
Number of pre-application conferences	19	17	15	16	17
Number of presentations	13	954	950	950	920
Web Site Visits	12,000	28,500	29,000	29,000	29,000

Stormdrain Stenciling in Crooked Lake watershed, part of Lake Management Plan implementation, 2009

Description

The purpose of this activity is to provide for active involvement of the public and related units of government in developing and implementing water management plans and activities.

Means

Measures	2008	2009	2010	2011	2012
Average number on agenda distribution list	48	50	50	55	55
Completed SWPPP Review meeting	Yes	Yes	Yes	Yes	Yes
Number of CAMP participants	1	1	1	1	1
Number of Planning Workshops/Reviews	10	10	10	10	10
Coon Creek Clean-up	Yes	Yes	Yes	Yes	Yes
Number of Hearings	3	4	4	3	3
Number of issues on Hot Line	79	82	80	80	80
Number of contacts with Lake Assn	20	15	12	6	6

Measures	2008	2009	2010	2011	2012
Number of open mike presentations	0	1	1	0	0
Number of Board Meeting per year	21	23	23	23	23

Advisory Committee

M.S. 103D.331 requires that the District have an advisory committee to advise and assist the Board on all matters affecting the interests of the watershed district and make recommendations on all contemplated projects and improvements in the watershed district.

Organization	2008	2009	2010	2011	2011
Anoka Conservation District	Mary Jo Truchon	Jim Lindahl	Jim Lindahl		
Anoka County	Dick Lang	Robyn West	Robyn West		
Sporting/Environ Organization	Vacant	Vacant	Vacant		
Farm Organization	Vacant	Vacant	Vacant		
Andover	Vacant	Vacant	Vacant		
Blaine	Vacant	Vacant	Vacant		
Columbus	Vacant	Vacant	Vacant		
Coon Rapids	Vacant	Vacant	Vacant		
Ham Lake	Vacant	Vacant	Vacant		

Minnesota Statute 103D.337 requires that the District establish a technical advisory committee consisting of representatives of affected cities, county, and soil and water conservation districts.

Organization	**2008**	**2009**	**2010**	**2011**	**2012**
Number of Technical Advisory Committee meetings	6	2	6	6	6
Anoka Conservation District	Chris Lord	Chris Lord	Chris Lord	Chris Lord	Chris Lord
Andover	Todd Haas	Todd Haas	Todd Haas	Todd Haas	Todd Haas
Blaine	Jim Hafner	Jim Hafner	Jim Hafner	Jim Hafner	Jim Hafner
Columbus	Elizabeth Mursko	Elizabeth Mursko	Elizabeth Mursko	Elizabeth Mursko	Elizabeth Mursko
Coon Rapids	Doug Vierzba	Doug Vierzba	Doug Vierzba	Doug Vierzba	Doug Vierzba
Ham Lake	Tom Collins	Tom Collins	Tom Collins	Tom Collins	Tom Collins

Minnesota Statute 103G.2242 Subdivision 2 requires the District establish a Technical Evaluation Panel to assist or make determination on questions concerning the public value, location, size, or type of a wetland.

Organization	**2008**	**2009**	**2010**	**2011**	**2012**
Number of Technical Evaluation Panel meetings	14	34	30	30	33
Anoka Conservation District	Dennis Rodacker	Dennis Rodacker	Dennis Rodacker	Dennis Rodacker	Dennis Rodacker
BWSR	Lynda Peterson	Lynda Peterson	Lynda Peterson	Lynda Peterson	Lynda Peterson
US Army Corps of Engineers	Tim Fell	Tim Fell	TimFell	TimFell	TimFell
Andover	Todd Haas	Todd Haas	Todd Haas	Todd Haas	Todd Haas
Blaine	Jim Hafner	Jim Hafner	Jim Hafner	Jim Hafner	Jim Hafner
Columbus					
Coon Rapids	Dave Full	Dave Full	Dave Full	Dave Full	Dave Full
Ham Lake	Tom Collins	Tom Collins	Tom Collins	Tom Collins	Tom Collins

Implications of Recent Public & Governmental Relations Trends for the Management of the Watershed (2010 to 2012)	
Trend	**Implications**
Decreased number of city newsletter per year	As a method to reduce budgets, cities have reduced the number of printed issues. Therefore, less space is available for items outside of city news, and those submitted need to be very short making it is increasingly difficult to communicate complex issues.
Increased number of conferences & Workshops Training of the Public Works audience	As a result of the potential TMDL listing of Sand and Coon Creeks for chlorides, training workshops are recommended for city and contractor road crews, and for city managers. Trainings have been developed by MNDOT and UMN Extension that have proven results in reducing road salt application.
Website updates more complex	The trend in education is to use increased graphics to convey information; webmapping and multimedia products such as YouTube video and slideshows embedded into websites are becoming common education and training tools.

Expectations about the future for Public & Governmental Relations in the watershed	
Expectations	**Explanation**
More Outreach Events	CCWD is getting known as an educational resource on water issues including presentations and community service opportunities, and providing grant support for producing events such as Green Expos and school water festivals.
Increased number of training workshops	Through an EPA 319 grant to reduce stormwater pollutants, the UMN Extension is providing cost-share opportunities for training workshops. Increased time is needed for organizing best management practice training workshops for municipal public works and city council/staff.
Emphasis on graphics and mobile-enhanced information	As the culture becomes more used to cell phones as information conveyances, more information may need to be mobile–enhanced. By end of 2012, videos could expand into trainings on construction BMPs such as proper erosion control that could be viewed in the field on a mobile "smartphone."

Immediate Needs (2010 – 2011)	
Need	**Explanation**
Collaborate on 3 workshop trainings	Coordinate with UMN Extension-Stormwater U/NEMO on their EPA 319 grants for Road Salt and summer turf trainings for municipal staff and managers. Expected contribution is $250-500 each workshop.
Produce more video Public Service Announcements (PSAs)	As opportunities for written communication decrease, the ease and popularity of short videos for the web and outreach events increases. Collaborating with 2 local community-access cable stations has already resulted in 2 PSAs in 2010, one produced internally: winter de-icing tips, & the other: groundwater recharge tips for homeowners.

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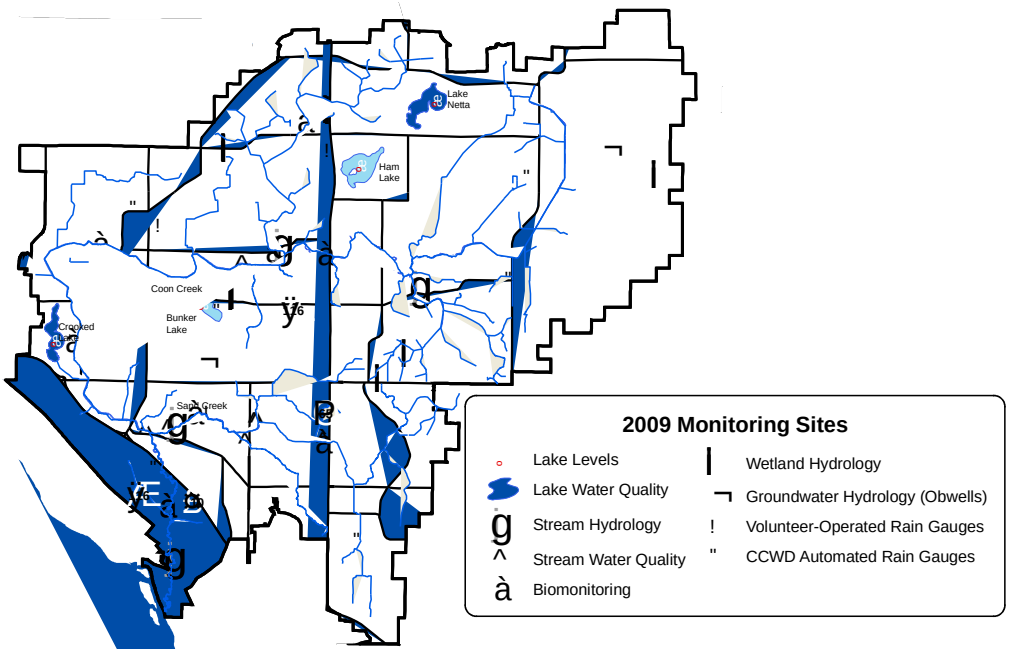
RESEARCH, MONITORING, & DATA COLLECTION



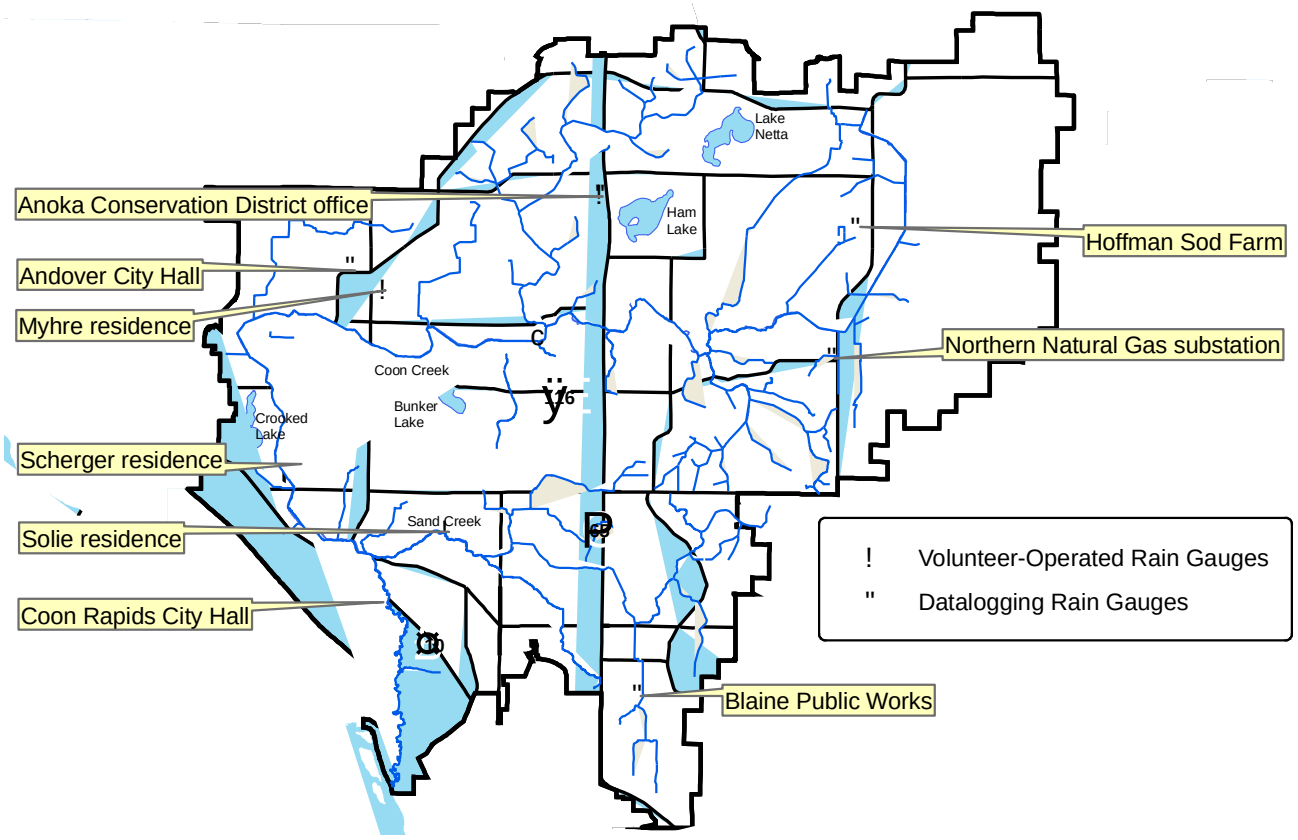
PROGRAM DESCRIPTION

The purpose of the research, monitoring and data collection program is to gather and analyze data that will result in increased efficiency and effectiveness of watershed management and District programs. Most of the data that is presented in this section of the annual report and plan is drawn from "2009 Anoka Water Almanac: Water Quality and Quantity Conditions in Anoka County, MN," prepared by the Anoka Conservation District.

The research, monitoring, and data collection program provides integrated resource information used in planning, evaluating, and decision-making within the Coon Creek Watershed District. Program activities include:

1. Precipitation Monitoring
2. Stream
    a. Hydrology
    b. Water quality
    c. Biology
3. Lakes
    a. Hydrology
    b. Water quality
4. Wetlands
    a. Hydrology
    b. Biology/Vegetation

District planning, regulation, and project decision-making depend upon scientifically credible and accurate resource information. This data allows resource managers to make scientifically based management decisions. These are all essential to effective resource management.



Description

This activity involves continuous monitoring of precipitation with both data-logging rain gauges and non-logging rain gauges that are read daily by volunteers. Rain gauges are placed around the watershed in recognition that rainfall totals and storm phenology vary over distance, and these differences are critical to understanding local hydrology including predicting flooding.

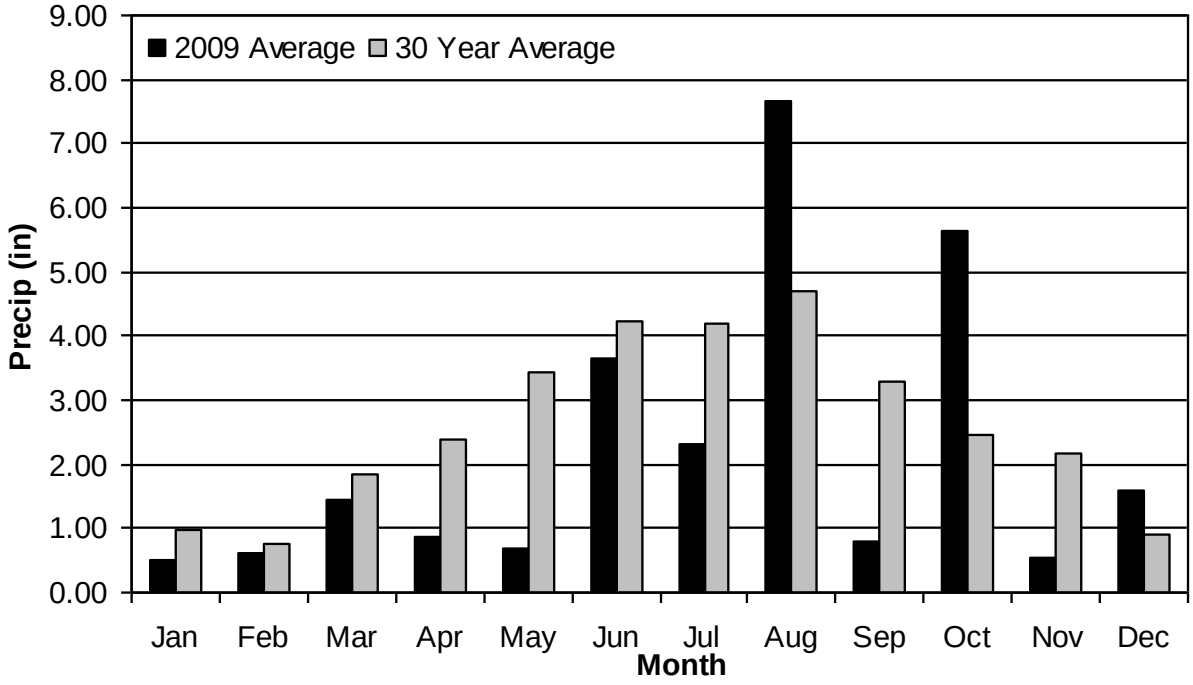
Measures	2008	2009	2010	2011	2012
Number of					
Data Logging Gages		6	6	6	6
Andover City Hall, Andover		*	*	*	*
Anoka Conservation District, Ham Lake	*	*	*	*	*

Measures	2008	2009	2010	2011	2012
Blaine Public Works, Blaine	*	*	*	*	*
Bunker Hill Activity Center, Andover	*				
Coon Rapids City Hall, Coon Rapids	*	*	*	*	*
Hoffman Sod Farm, Ham Lake		*	*	*	*
Northern Natural Gas Substation, Ham Lake	*	*	*	*	*

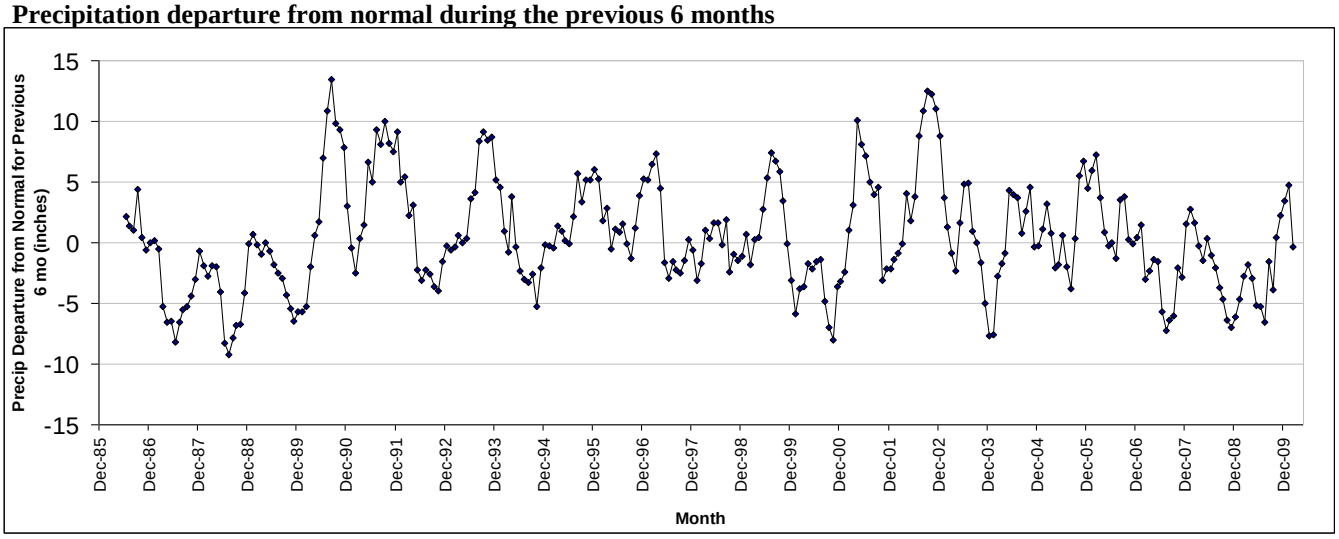
Coon Creek Watershed 2009 Precipitation

		Month													
Location or Volunteer	Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Total	Growing Season (May-Sept)
Tipping bucket, datalogging rain gauges (Time and date of each 0.01" is recorded)															
Andover City Hall	Andover				0.83	0.81	4.05	2.67	7.12	0.68	5.44			21.60	15.33
Blaine Public Works	Blaine				0.29	0.14	2.00	1.19						3.62	3.33
Coon Rapids City Hall	Coon Rapids				0.91	0.45	3.68	1.93	6.29	0.55	5.44			19.25	12.90
Anoka Cons. District office	Ham Lake				0.97	0.93	4.18	3.47	9.41	1.04	6.41			26.41	19.03
Hoffman Sod Farm	Ham Lake				0.99	0.67	3.80	2.61			4.74			12.81	7.08
Northern Nat. Gas substation	Ham Lake				0.83			2.85	7.40	0.70	5.30			17.08	10.95
Cylinder rain gauges (read daily)															
N. Myhre	Andover	0.51	0.62	1.44	1.14	0.92	4.36	2.13	8.44	0.60	5.90	0.55	1.59	28.20	16.45
S. Scherger	Coon Rapids				0.95	0.66	4.56	1.75	7.68	1.26	6.12			22.98	15.91
S. Solie	Coon Rapids				0.90	0.77	2.63	2.35	7.38					14.03	13.13
2009 Average	County-wide	0.51	0.62	1.44	0.87	0.67	3.66	2.33	7.67	0.81	5.62	0.55	1.59	26.33	15.13
30 Year Average	Cedar	0.99	0.76	1.84	2.40	3.43	4.22	4.21	4.70	3.29	2.44	2.18	0.90	31.36	19.85

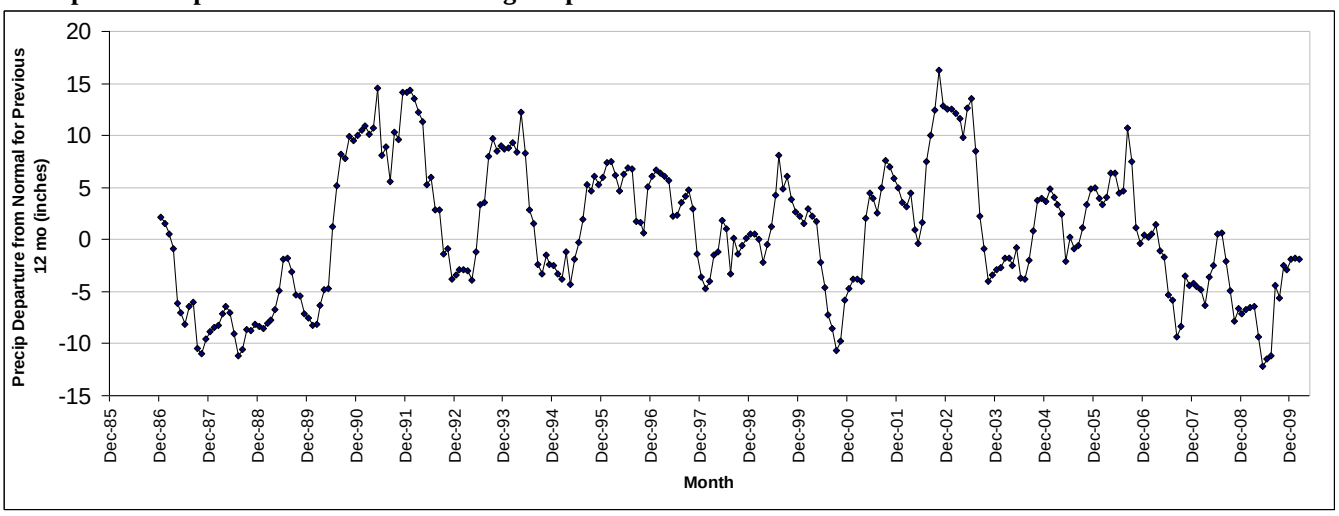
precipitation as snow is given in melted equivalents



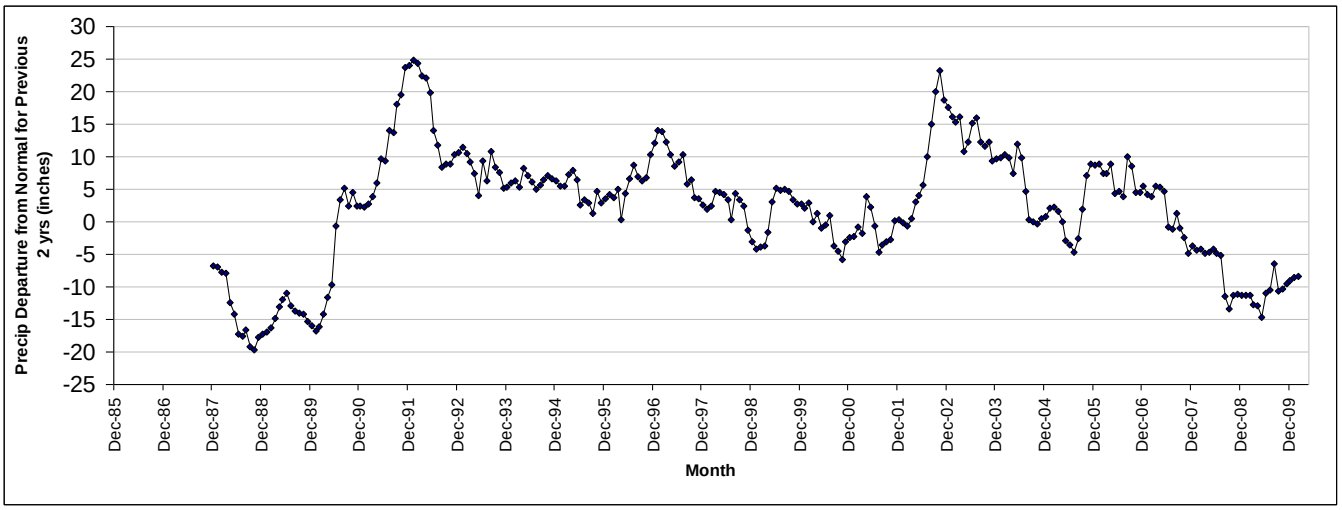
Precipitation departure from normal during the previous 6 months



Precipitation departure from normal during the previous 12 months

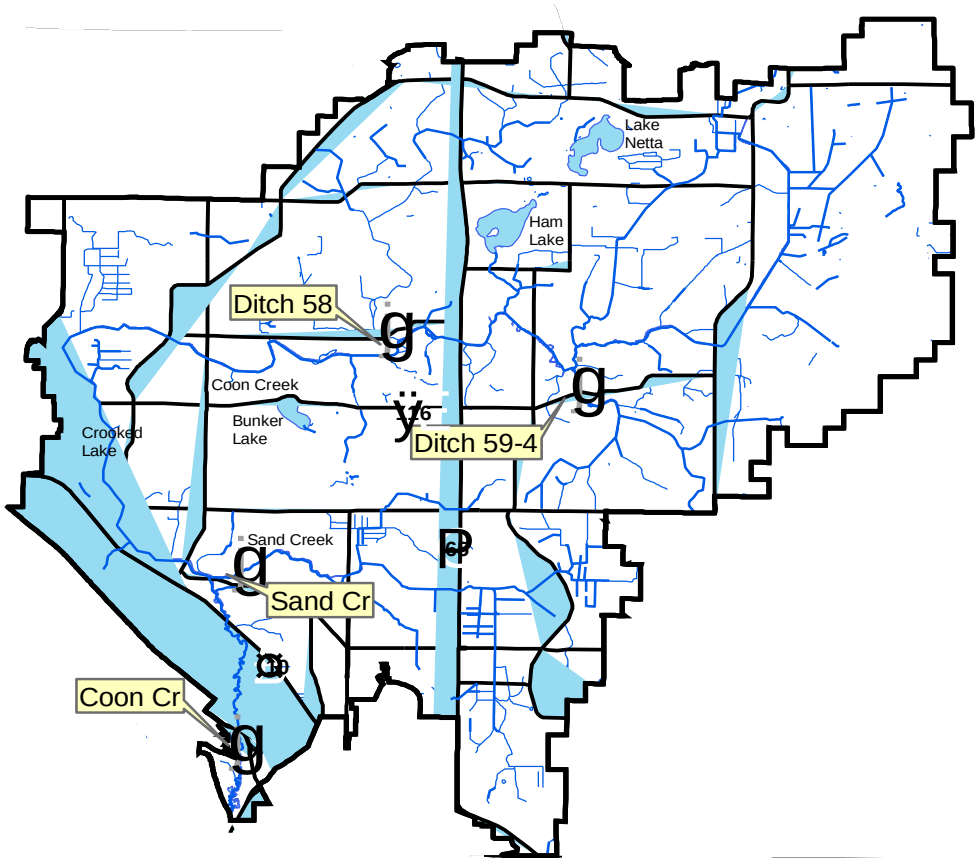


Precipitation departure from normal during the previous 2 years



Description
This activity involves monitoring observation wells installed by the Department of Natural Resources and maintained by the Anoka Conservation District. With increasing concern and awareness of declines in the surficial water table it is important that changes and trends in the surficial aquifer be reported at least annually.

Measures in feet below ground level	**Well Number**	**2008**	**2009**	**5 Year Avg.**	**10 Year Avg.**	**43 Year Avg.**
Upper Watershed						-5.5
Lower Watershed						-9.9
Bethel	2025	-9.4	-7.2	-8.5	-8.8	-9.1
Soderville	2023	-10.3	-12.5	-10.2		-9.8



Coon Creek Watershed 2009 Stream Hydrology Monitoring Sites

Description

Continuous water level monitoring in streams at four locations provides understanding of stream hydrology, including the impact of climate, land use or discharge changes. These data also facilitate calculation of pollutant loads, and are use in computer models for developing management strategies.

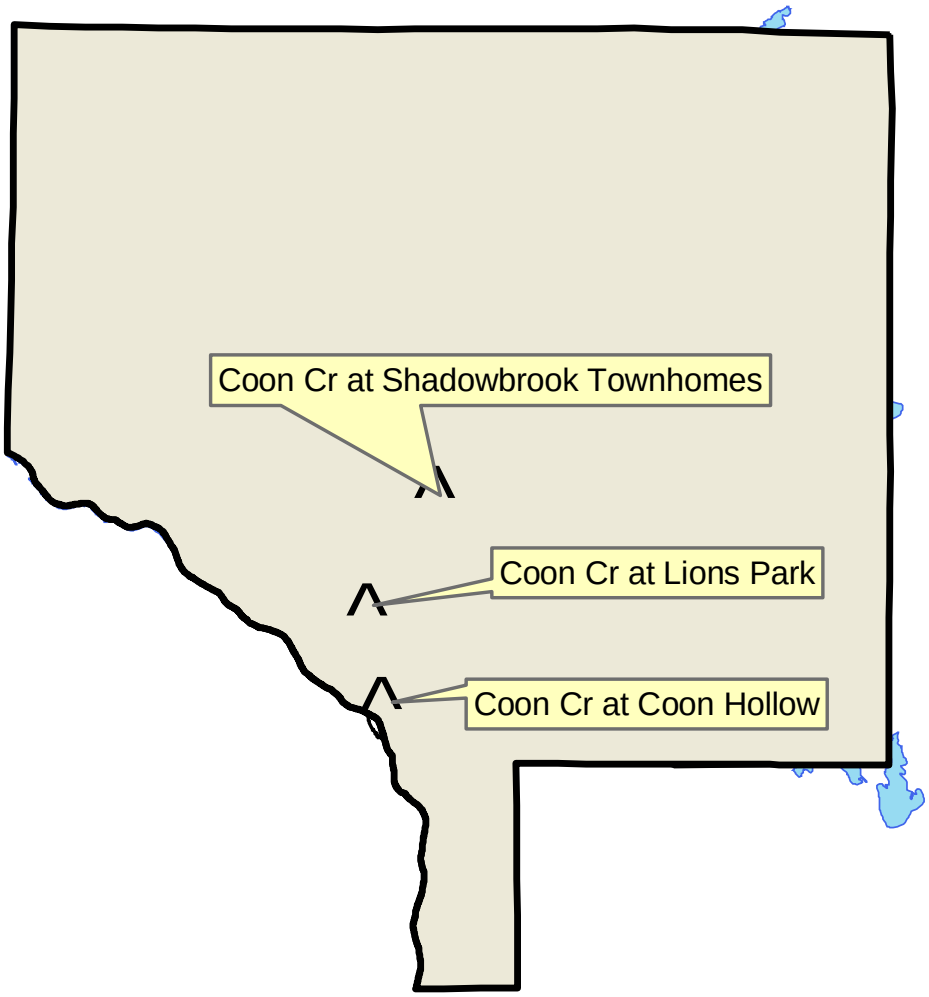
Monitoring Sites	2008	2009	2010	2011	2012
Coon Creek at Vale, Coon Rapids	X	X	X	X	X
Ditch 59-4 at Andover Blvd, Ham Lake		X	X	X	X
Ditch 58 at Bunker Lake Blvd	X	X	X	X	X

Monitoring Sites	2008	2009	2010	2011	2012
Sand Creek at Ditch 39 Confluence, Coon Rapids			X	X	X
Sand Creek at Xeon St, Coon Rapids	X	X	X	X	X
Coon Creek at Vale, Coon Rapids Rating Curve			X	X	X

Summary of Select Monitored Years

Percentiles	2005	2006	2007	2008	2009	All Years
Min	820.04	820.26	820.33	820.43	820.03	820.03
2.5%	820.06	820.42	820.40	820.52	820.12	820.15
10.0%	820.19	820.53	820.53	820.57	820.20	820.38
25.0%	820.57	820.78	820.73	820.63	820.35	820.60
Median (50%)	820.91	821.35	821.25	820.88	820.61	820.94
75.0%	821.26	821.78	821.88	821.78	820.93	820.94
90.0%	821.77	822.27	822.63	822.26	821.31	822.17
97.5%	822.92	822.76	823.21	822.79	822.05	822.86
Max	823.26	824.18	824.47	823.96	824.11	824.47

"All Years" is not an average of each year's summary statistic. Rather, it is calculated from the continuous, multi-year record.

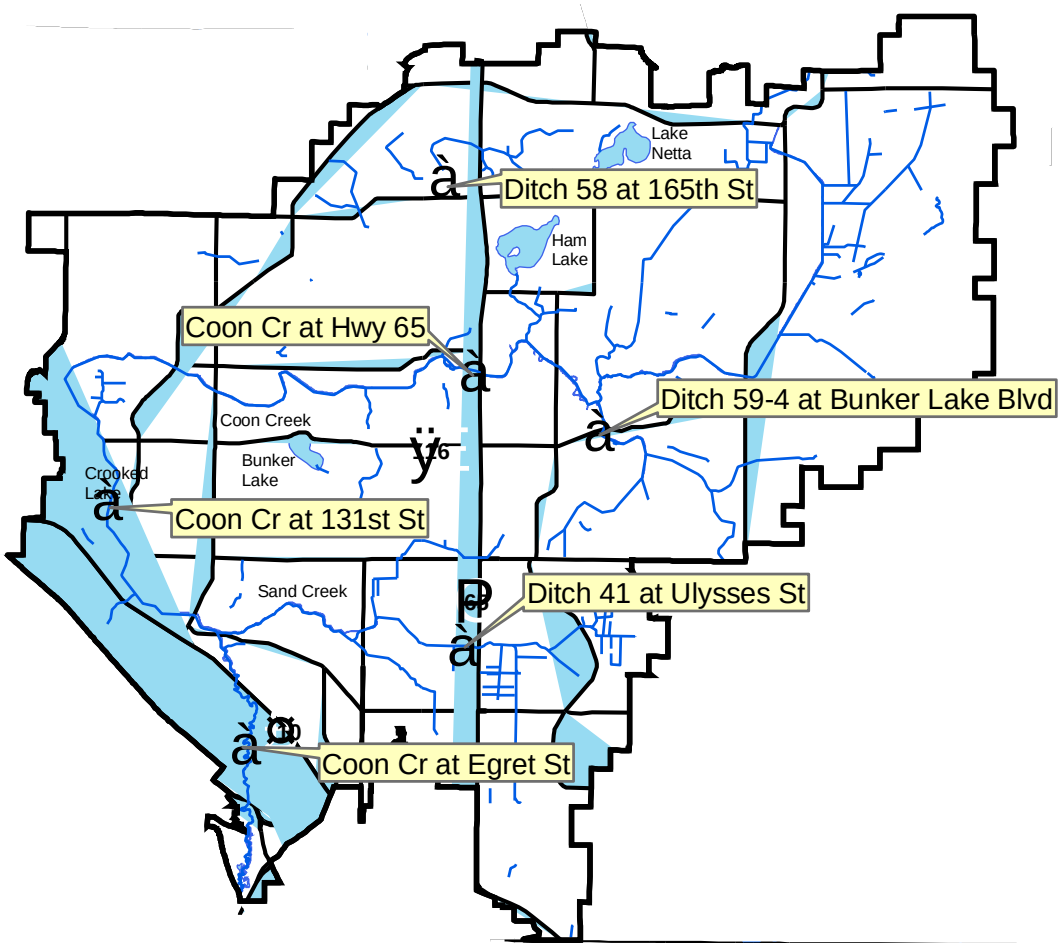


Description

The District monitors stream water quality at five locations. Each location is sampled eight times: four during storm events and four during baseflow.

Coon Creek	Standard	2006	2007	2008	2009
TP (mg/L)	.130	0.123	0.125	0.134	0.107
TSS (mg/L)	>13.7	25	21	34	73
CL (mg/L)	≤ 230	48.5	58.3	58.8	64.1
Turbidity (FRNU)	>25	22	16	36	66

Locations	2008	2009	2010	2011	2012
Coon Creek					
Shadowbrook Townhomes, Andover	**X**	**X**	**X**	**X**	**X**
131ST Ave, Andover			**X**	**X**	**X**
Lions Park, Coon Rapids	**X**	**X**	**X**	**X**	**X**
Vale St., Coon Rapids	**X**	**X**	**X**	**X**	**X**
Sand Creek					
Radisson Rd (41-4), Blaine			**X**	**X**	**X**
Highway 65, Blaine		**X**	**X**	**X**	**X**
Happy Acres Park, Blaine		**X**			
University Ave, Blaine	**X**				
Xeon Street, Coon Rapids	**X**	**X**	**X**	**X**	**X**
Ditch 39					
University Ave, Coon Rapids		**X**			
Ditch 60					
Happy Acres Park, Blaine		**X**			
Total Number	**5**	**8**	**7**	**7**	**7**



Description

In 2009 the District monitored six locations within the watershed. The effort, coordinated by the Anoka Conservation District, assessed stream health using benthic (bottom-dwelling) macroinvertebrates. Certain macroinvertebrates, such as mayflies, stoneflies, and caddisflies, require high quality streams while others such as midges thrive in poor quality streams. Because of their extended exposure to stream conditions and sensitivity to habitat and water quality, these macroinvertebrates can serve as good indicators of stream health.

The Minnesota Pollution Control Agency (MPCA) has listed Coon Creek as biologically impaired based on single samples taken from two sites in August 2000. Both of these reaches are actively maintained ditches that had been recently cleaned. The purpose of this work is to:

- compare maintained and unmaintained creek reaches
- compare the Coon Creek system with similar nearby streams
- examine the effect of total suspended solids on invertebrate communities
- verify the MPCA findings.

Biomonitoring Results

Locations	Status	2008	2009	2010	2011	2012
Coon Creek						
Crosstown Blvd, Andover H.S.		**X**	**X**	**X**	**X**	**X**
Lions Park, Coon Rapids H.S.		**X**				
Erlandson Park, Coon Rapids			**X**	**X**	**X**	**X**
Coon Creek						
131ST St, Andover		**X**	**X**	**X**	**X**	**X**
TH 65, Ham Lake		**X**				
Egret Blvd, Coon Rapids						
Sand Creek						
(D-41) at Ulysses St, Blaine			**X**	**X**	**X**	**X**
Ditch 59-4						
At Bunker, Ham Lake			**X**	**X**	**X**	**X**
Ditch 58						
At 165th, Ham Lake			**X**	**X**	**X**	**X**

Summary

The data used in this study are limited in several ways and therefore the results should be interpreted with caution. Limitations include the length of the study (2 years), the small number of sampling sites, changes in sampling sites across years, and the statistical non-independence of different sampling sites located within the same stream or ditch. However, both 2008 and 2009 data support of the following general conclusions:

- Total number of families, FBI, and EPT indices of stream health are not different among unmaintained reaches of stream and those that have been maintained (ditched or cleaned) in the last 10 years.

- Coon Creek sites monitored by the MPCA and used to designate the creek as "biologically impaired" have biological indices of stream health that are in the middle of the range of the seven other streams that were monitored throughout Anoka County in 2009 and other years (includes student-monitored sites).

- There does not appear to be any strong correlations between TSS and any of the invertebrate indices, suggesting that TSS is not a strong predictor of macroinvertebrate community health in these systems.

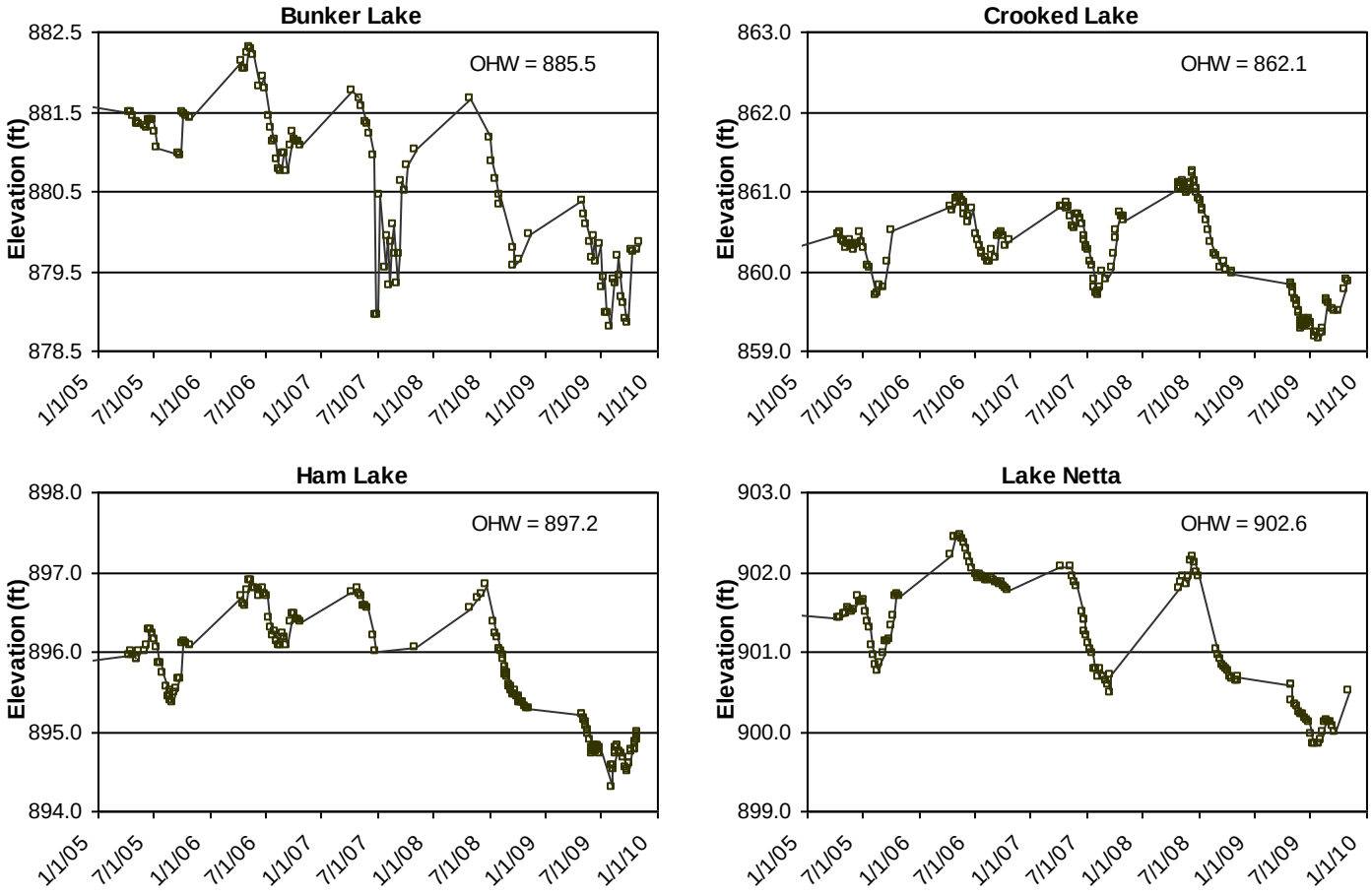
- Unmaintained sites have slightly higher values of overall MSHA score, land use, substrate, and channel morphology scores, and lower turbidity values. All of these observations are consistent with better stream conditions, but the differences are not dramatic and there is inconsistency amongst years.

- The relationships between overall MSHA score and the three biotic indices suggested that only FBI was correlated with overall MSHA score.

- In 2008 and 2009 poorer invertebrate communities were found than by the MPCA in 2000 at the two Coon Creek sites designated as impaired (Highway 65 and Egret St.). The Highway 65 site (maintained) had poorer biotic indices of stream health than the Egret Street site (not maintained).

- There is notable variability in biological survey results among samplings. This has been observed by both professional and student long-term biomonitoring.

Lake Levels 2005-2009



Description

Long-term monitoring of lake levels is useful for regulatory decision making, development decisions, lake management decisions and investigation into possible causes of various impacts to lakes. The lakes are monitored using an enamel gauge that is surveyed into each lake so that readings coincide with mean sea level elevations. The gauges are read weekly and reported to the DNR by the Anoka Conservation District. The data is available on the DNR website, www.dnr.mn.us.state\lakefind\index.html .

Lake	2008	2009	2010	2011	2012
Bunker	X	X	X	X	X
Crooked	X	X	X	X	X
Ham	X	X	X	X	X
Netta	X	X	X	X	X

Coon Creek Watershed Lake Levels Summary 2005-2009

Lake	Year	Average	Min	Max
Bunker	2005	881.33	880.94	881.50
	2006	881.45	880.75	882.31
	2007	880.39	878.95	881.77
	2008	880.41	879.57	881.66
	2009	879.52	878.79	880.37
Crooked	2005	860.23	859.68	860.51
	2006	860.54	860.10	860.92
	2007	860.35	859.68	860.86
	2008	860.75	859.96	861.24
	2009	859.47	859.14	859.90
Ham	2005	895.85	895.37	896.26
	2006	896.48	896.07	896.89
	2007	896.49	895.99	896.78
	2008	895.75	895.29	896.83
	2009	894.80	894.30	895.22
Netta	2005	901.36	900.76	901.72
	2006	902.05	901.76	902.46
	2007	901.17	900.49	902.07
	2008	901.32	900.63	902.19
	2009	900.15	899.84	900.58

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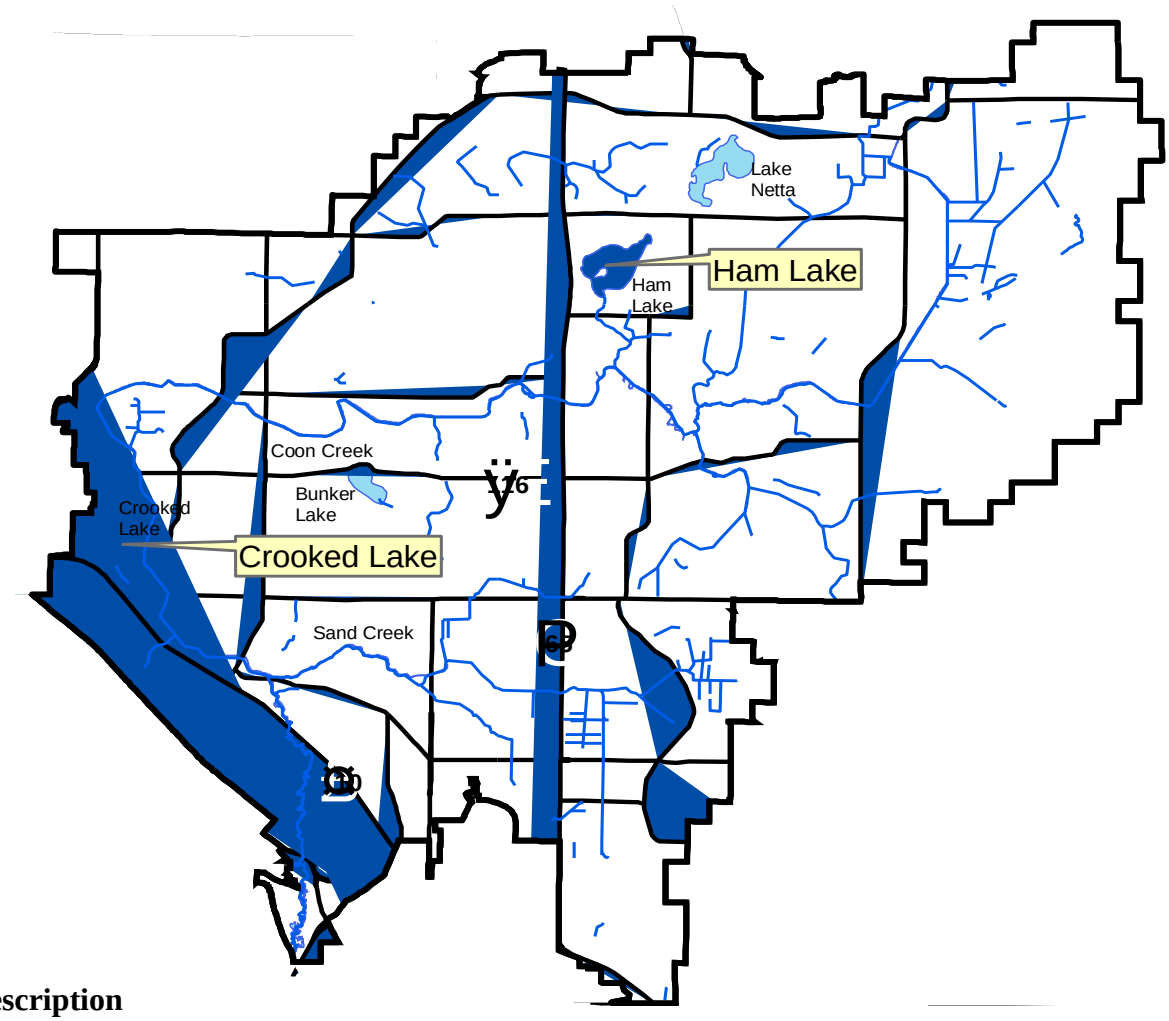


Description

To detect water quality trends and diagnose the cause of changes water quality samples are taken May through September twice-monthly. The samples are analyzed for the following parameters: total phosphorus, chlorophyll-a, Secchi transparency, dissolved oxygen, turbidity, temperature, conductivity, pH, and salinity. Detailed data for each lake are provided in the Anoka Water Almanac prepared by the Anoka Conservation District including summaries of historical conditions and trend analysis. Previous years' data are available from the ACD.

Lake monitoring has followed the following schedule:

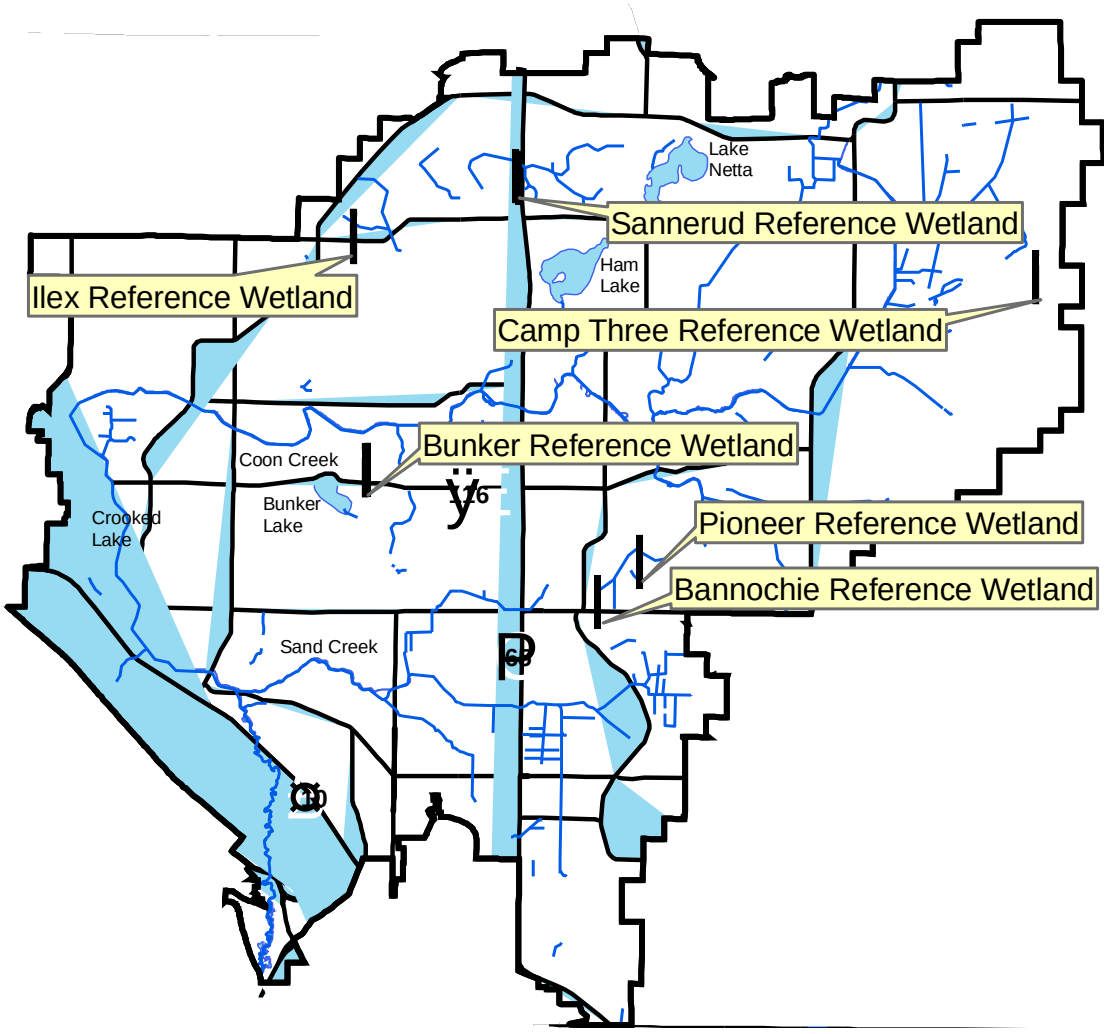
	2008	2009	2010	2011	2012
Crooked	X	X		X	X
Ham	X		X	X	
Netta		X	X		X

Crooked Lake 2009		Date	5/13/2009	5/27/2009	6/10/2009	6/24/2009	7/8/2009	7/22/2009	8/4/2009	8/19/2009	9/2/2009	9/16/2009			
		Time	9:25	9:00	8:55	9:00	9:00	9:25	9:05	8:25	8:45	8:00			
	Units	R.L.*	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Average	Min	Max
pH		0.1	7.93	8.09	8.23	8.18	8.05	8.14	8.16	8.17	7.92	8.54	8.14	7.92	8.54
Conductivity	mS/cm	0.01	0.500	0.534	0.496	0.509	0.494	0.501	0.459	0.494	0.485	0.476	0.495	0.459	0.534
Turbidity	FNRU	1	6	5	3	6	1	3	4	2	6	4	4	1	6
D.O.	mg/L	0.01	9.38	10.31	10.21	9.59	8.60	8.98	9.13	8.06	7.48		9.08	7.48	10.31
D.O.	%	1	93%	110%	106%	118%	102%	102%	106%	95%	84%		102%	84%	118%
Temp.	°C	0.10	15.3	18.9	17.7	25.9	24.1	22.2	23.0	23.8	21.0	23.30	21.5	15.3	25.9
Temp.	°F	0.10	59.5	66.0	63.9	78.6	75.4	72.0	73.4	74.8	69.8	73.9	70.7	59.5	78.6
Salinity	%	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.02	0.01	0.02
Cl-a	ug/L	1	8.7	11.3	17.6	6.5	4	6.9	7.7	5.5	6.0	6.0	8.0	3.6	17.6
T.P.	mg/L	0.005	0.044	0.042	0.041	0.036	0.047	0.030	0.024	0.032	0.029	0.037	0.036	0.024	0.047
T.P.	ug/L	5	44	42	41	36	47	30	24	32	29	37	36	24	47
Secchi	ft	0.1	6.4	8.3	6.0	6.4	11.4	9.3	6.6	8.4	7.6	7.3	7.8	6.0	11.4
Secchi	m	0.1	2.0	2.5	1.8	2.0	3.5	2.8	2.0	2.6	2.3	2.2	2.4	1.8	3.5
Field Observations															
Physical			2.0	2.0	2.0	3.0	2.0	2.0	2.0	1.5	2.0	2.0	2.1	1.5	3.0
Recreational			2.0	2.0	2.0	3.0	2.0	2.0	2.0	1.5	2.0	2.0	2.1	1.5	3.0

*reporting limit

Lake Netta 2009			5/13/2009	5/27/2009	6/10/2009	6/24/2009	7/8/2009	7/22/2009	8/4/2009	8/19/2009	9/2/2009	9/16/2009			
	Units	R.L.*	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Average	Min	Max
pH		0.100	7.40	7.23	7.46	7.90	8.04	7.77	7.94	7.24	7.70	7.69	7.64	7.23	8.04
Conductivity	mS/cm	0	0.241	0.270	0.252	0.244	0.224	0.224	0.198	0.214	0.213	0.215	0.446	0.198	2.410
Turbidity	FNRU	1.00	5.00	4.00	3.00	3.00	3.00	2.00	3.00	4.00	7.00	2.00	4	2.00	7.00
D.O.	mg/l	0	9.37	7.16	9.02	8.69	9.68	10.30	9.06	6.99	8.22	7.93	8.64	6.99	10.30
D.O.	%	1.0	94%	76%	92%	109%	115%	118%	106%	81%	92%	92%	98%	76%	118%
Temp.	°C	0.1	15.9	18.4	16.1	27.0	24.0	22.0	23.3	23.2	20.8	22.9	20.4	6.1	27.0
Temp.	°F	0.1	60.6	65.1	61.0	80.6	75.2	71.6	73.9	73.8	69.4	73.2	68.6	43.0	80.6
Salinity	%	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Cl-a	ug/l	1	9.9	6.6	15.9	8.2	3.3	5.2	6.1	20.1	9.8	3.7	8.9	3.3	20.1
T.P.	mg/l	0.005	0.027	0.036	0.041	0.037	0.042	0.026	0.018	0.044	0.029	0.022	0.032	0.018	0.044
T.P.	ug/l	5	27.0	36.0	41.0	37.0	42.0	26.0	18.0	44.0	29.0	22.0	32.2	18.0	44.0
Lead	ug/l	2.5				<.5									
Secchi	ft	0.1	6.00	7.00	6.10	8.30	9.20	10.40	7.00	7.72	6.80	7.90	7.642	6	10.4
Secchi	m	0.1	1.8	2.1	1.9	2.5	2.8	3.2	2.1	2.4	2.1	2.4	2.3	1.8	3.2
Field Observations															
Physical			1	1.5	1.5	2	1.5	1	1.5	2	1.5	1	1.5	1	2
Recreational			1	1.5	1.5	2	1.5	1	1.5	2	1.5	1	1.5	1	2

*reporting limit



Description

This program is to provide understanding of wetland hydrology, including the impact of climate and land use. These data aid in delineation of nearby wetlands by documenting hydrologic trends including the timing, frequency, and duration of saturation. Continuous groundwater level monitoring at a wetland boundary to a depth of 40 inches is done. District-wide, the ACD maintains a network of six wetland hydrology monitoring stations.

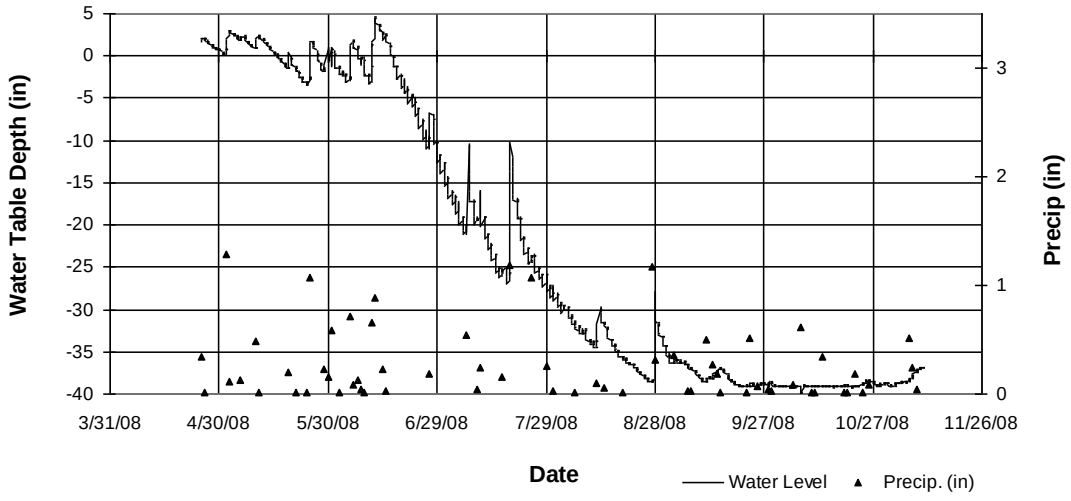
The purpose of reference wetland data is to help assure that wetlands are accurately identified by regulatory personnel. State and federal laws place restrictions on filling, excavation and other activities in wetlands. Commonly, citizens wish to do work in an area that is sometimes, or perhaps only rarely, wet. Whether this area is a wetland under regulatory definitions is often in dispute. Complicating the issue is that conditions in wetlands are constantly changing—an area that is very wet and clearly wetland at one time may be completely dry only a few weeks later (dramatically displayed in the graphs). As a result, regulatory personnel look at a variety of factors including soils, vegetation, and current moisture conditions. Reference wetland data provide a benchmark for comparing moisture

conditions in a disputed area to known wetlands, thereby helping assure accurate regulatory decisions. The analysis of reference wetland data provided above is a quantitative, non-subjective tool.

The simplest use of the reference wetland data is to compare water levels in the reference wetlands to water levels in a disputed area. The graphics and tables below are based upon percentiles of the water levels experienced at known wetland boundaries. The quartile boxes in the figures delineate the 10^{th}, 25^{th}, 50^{th}, 75^{th}, and 90^{th} percentiles. Water table depths outside of the box have a low likelihood of occurring or may only occur under extreme circumstances such as extreme climate conditions or in the presence of anthropogenic hydrologic alterations. If sub-surface water levels in a disputed area are similar to those in reference wetlands, there is a high likelihood that the disputed area is a wetland.

This approach can be refined by examining data from only the year of interest and only certain wetland types. This removes much of the variation that is due to climatic variation among years and due to wetland type. Substantial variation in water levels will no doubt remain among wetlands even after these factors are accounted for, but this exercise should provide a reasonable framework for understanding what hydrologic conditions were present in known wetlands during a given time period.

Water table levels are recorded every 4 hours at all 19 reference wetlands (except during winter) and the raw water level data available through the Data Access tool at: www.AnokaNaturalResources.com.



Implications of Recent Monitoring Trends for the Management of the Watershed	
Trend	**Implications**
Decreases in precipitation	Decrease in flows and water quality, increased exceedances of state water quality standards.
Increased frequency of rain events greater than 1 inch	Decreased infiltration Undersized infrastructure Increased loadings of Phosphorus and Total Suspended Solids (TSS).
Decreases in Lake Levels	Increases in phosphorus levels and algae.
Increase in flashiness of lower portions of system	Increases in turbidity and TSS in lower creek. General decrease in water quality.
Decreases in water quality in older developed portions of watershed	Increased need for retrofit projects.

Expectations about the future Monitoring of the Watershed (2010 to 2012)	
Expectations	**Explanation**
Continued decreases in precipitation	Decreases in precipitation will contribute to water scarcity and water shortages throughout the District.
Continued high intensity, short duration storms	Downbursts over smaller areas flush areas with enough water to suspend sediment, contribute to turbid condition and create peak flows which can have an erosive impact on stream channels.
Increased "Impaired" Designations	The District historical focus has been on flood control requiring that the lower portion of the watershed discharge prior to the peak flow arrival from upstream. This strategy in turn has created a "flash flush" which is contributing to (or causing) loading of both dissolved pollutants such as Chloride, but is contributing to high turbidity levels and TSS as well.

Immediate Needs (2010 – 2011)	
Need	**Explanation**
Focus on retrofit efforts in the lower portion of the watershed to reduce volume, Phosphorus loading, and TSS	The District has completed one "retrofit" study through the Anoka Conservation District (Sand Creek). In 2010 the District plans to assess the lower part of the Coon Creek Watershed (Coon Rapids). This effort needs to continue until the issues of volume, turbidity, phosphorus loading, and TSS in the lower Creek are addressed.
Encourage water conservation and infiltration throughout the District	Two efforts should be considered: 1) Public education to conserve beyond watering restrictions (eg, aeration to encourage infiltration). 2) Use of 'Culvert Boarding' on high infiltration (losing reaches) of the public ditch system throughout the watershed.

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District Performance

Introduction

In the 2003 Budget and Plan, the District committed to delivering a range of water resource based benefits to the citizens of the watershed in a manner consistent with the District Comprehensive Plan. The goals of the Comprehensive Plan are:

Goal 1: To protect, preserve, and use natural surface and ground water storage and retention systems

Goal 2: To minimize public capital expenditures needed to correct flooding and water quality problems

Goal 3: To identify and plan for means to effectively protect and improve surface and groundwater quality

Goal 4: To establish uniform local policies and controls for surface and groundwater management

Goal 5: To prevent soil erosion into surface water systems

Goal 6: To promote groundwater recharge

Goal 7: To protect and enhance fish and wildlife habitat and water recreational facilities

Goal 8: To secure the other benefits associated with the proper management of surface and groundwater

Goal 9: To conserve natural resources through land use planning, flood control, and conservation projects

Goal 10: To use sound scientific principals for the protection of public health and welfare and the provident use of natural resources

Goal 11: To ensure that the continued planning and management of the Coon Creek Watershed District is responsive to the needs and concerns of an informed public

Goal 1: Protect, preserve, and use the natural surface & groundwater storage and retention system

Objective 1.1: Maintain ditch and conveyance systems

Long Term Outcome Measures: Trends in agricultural drainage and flooding

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Issues and Complaints	Emergency Work	Emergency actions authorized	1	1	1	0
	Issues	Number of issues	80	77	76	97
Permit Review	Erosion & Sediment Control Best Management Practices (BMPs)	BMPs applied	138	75	107	176
Operations & Maintenance						
Repair	Ditch Repair	Projects	4	3	11	2
Routine Maintenance	Beaver Removal	Beaver removed	50	21	34	7
	Obstructions	Obstructions	27	7	45	13
	Trees & Vegetation	Trees removed	38	22	493	14
Planning						
Budgeting and Program Planning	Annual Priorities	Budget goals and themes	Yes	Yes	Yes	Yes
	Project Initiation	Project initiation reports prepared	0	1	2	2
Comprehensive Planning	Comprehensive Plan	Adoption of the Comprehensive Plan	Yes	Yes	Yes	Yes
	Differentiate Maintenance Needs		Yes	Yes	Yes	Yes
	Differentiate Role	Comprehensive Plan - Stream Order map	Yes	Yes	Yes	Yes
Public and Governmental Relations						
Involvement	Issue Management Hotline	Number of issues	83	77	74	100
Research						
Inspections	Ditch Inspection	Inspect 20% of the public system annually	20%	20%	20%	10%

Means & Associated Resources

	2006	2007	2008	2009
Funding	$31,996	$39,798	$125,478	$112,272
FTEs	.6	.5	1.6	.7

Objective 1.2: Avoid or minimize direct and indirect disturbance to wetlands

Long Term Outcome Measures: No net loss of the functions and values of jurisdictional wetlands within the watershed.

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Administration						
Training	Wetland Conservation Act (WCA)	Staff Days spent attending WCA training	5	25	18	68
Land & Water Regulation						
Issues and Complaints	Issues	Number of issues	80	77	76	97
Permit Inspection and Enforcement	Cease and Desist / Stop Work Orders	Cease and Desist & Stop Work Orders Issued	0	0	0	2
	Inspections	Number of Inspections	147	84	126	190
Permit Review	Conservation Easements	Easements dedicated	283	50	32	25
	Alternatives	Permit applications reviewed	169	115	78	26
	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes
	Sequencing Analysis	Projects that minimized wetland impacts	49	18	12	n/a
		Wetland acres avoided through minimization of wetland impacts	32	1.8	13.5	n/a
		Wetland acres avoided completely	649	29.8	78.3	n/a
	Wetland Determination	Non-TEP field checks of wetland delineations	67	32	17	10
Public and Governmental Relations						
Information	Pre-application Conferences/Land Owner Contacts	Pre-application conferences	41	29	19	17

Means & Associated Resources

	2006	2007	2008	2009
Funding	$44,543	$38,476	$37,512	$35,697
FTEs	1.2	.5	.5	.5

Objective 1.3: Preserve the location, character, and extent of natural drainage courses

Long Term Outcome Measures: To ensure that adequate opportunities remain for using these resources to convey stormwater, and to ensure or minimize conflicts between drainage dependent land uses as well as other natural resources such as wetlands

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Inspection and Enforcement	Permits	Number of Permits	46	18	28	24
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180
	Board Review and Action	Permit reviews by Board	119	86	67	44
	Conservation Easements	Easements dedicated	283	50	32	0
	Alternatives	Permit applications reviewed	169	115	78	27
	Flood Analysis	Letters sent	13	5	5	2
	Permit Review & Findings	Permit application reviewed	147	106	179	105
	Sequencing Analysis	Projects that minimized wetland impacts	49	18	12	n/a
		Wetland acres avoided through minimization of wetland impacts	32	1.8	13.2	n/a
		Wetland acres avoided completely	649	29.8	78.3	n/a
	Wetland Exemption Evaluation	Exemption determinations approved	7	1	2	4
Planning						
Comprehensive Planning	Comprehensive Plan	Comprehensive Plan (Up Date)	Yes	Yes	Yes	Yes
Public and Governmental Relations						
Involvement	Regular Meetings	Number of meetings per year	23	20	22	22

Means & Associated Resources

	2006	2007	2008	2009
Funding	$67,693	$63,174	$51,231	$39,348
FTEs	1.6	.8	.6	.5

Goal 2: Minimize public capital expenditures needed to correct flooding and water quality problems

Objective 2.1: Secure safety from floods

Long Term Outcome Measures: The reduction or elimination of flood damage to both agricultural land and residential property

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Inspection and Enforcement	Inspections	Number of Inspections	147	84	126	194
	Permits	Number of Permits	46	18	28	24
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180
	Board Review and Action	Number of permit reviews by Board	119	86	67	44
	Capacity analysis	Number of permit application reviewed	147	110	78	38
	Flood Analysis	Number of letters	13	5	5	2
Planning						
Comprehensive Planning	Differentiate Role	Comprehensive Plan - Stream Order map	Yes	Yes	Yes	Yes
Research						
Modeling	HydroCAD	Convert HydroCAD to XPSWMMM	Yes	Yes	Yes	Yes
Monitoring	Stream Level	Water Atlas report on annual hydrographs and peak elevations for various locations within the watershed	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$29,634	$54,523	$54,834	$44,837
FTEs	.8	.8	.8	.6

Objective 2.2: Preserve the location, character, and extent of natural drainage courses

Long Term Outcome Measures: Long term water quality trends

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Inspection and Enforcement	Inspections	Number of Inspections	147	84	126	194
	Permits	Number of Permits	46	18	28	24
Research						
Monitoring	Lower Coon Creek Water Quality	Water Atlas report on lake water quality trends	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$8,988	$13,257	$19,091	$30,234
FTEs	.2	.2	.3	.3

Objective 2.3: Prevent property damage and the losses and risks associated with flood conditions that may arise from high water tables

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Inspection and Enforcement	Inspections	Number of Inspections	147	84	126	194
Permit Review	Permit Review	Permit applications reviewed	147	106	179	105
	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes
Research						
Modeling	Water Budget	Updated Budget	Yes	Yes	Yes	Yes
Monitoring	Infiltration Rate	Report on infiltration rates in established infiltration basins on varying soil types	Yes	Yes	Yes	Yes
	Wetland Hydrology	Water Atlas report on wetland hydrology	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$20,437	$33,646	$51,607	$43,305
FTEs	.3	.4	.6	.5

Goal 3: Identify and plan for means to effectively protect and improve surface and groundwater quality

Objective 3.1: Monitor water quality and condition of lakes in the watershed

Long Term Outcome Measures: Long-term water quality monitoring and trends

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Research						
Monitoring	Lake Level	Water Atlas report on trends in lake level elevations	Yes	Yes	Yes	Yes
	Lake Water Quality	Water Atlas report on lake water quality trends	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$1,600	$2,300	$2,300	$2,468
FTEs	.01	.05	.15	.05

Objective 3.2: Monitor water quality at the outlet to the watershed

Long Term Outcome Measures: Water quality trends

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Research						
Monitoring	Lower Coon Creek Water Quality	Water Atlas report on Stream water quality trends	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$800	$3,680	$3,680	$7,560
FTEs	.01	.1	.1	.1

Objective 3.3: Identify the roles and responsibilities of governmental units in implementing land use controls for the protection of groundwater quality

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Planning						
Comprehensive Planning	Comprehensive Plan	Comprehensive Plan (Up Date)	Yes	Yes	Yes	Yes
Public and Governmental Relations						
Involvement	Plan & Permit Coordination	Number of TAC and TEP meetings	16	18	17	36

Means & Associated Resources

	2006	2007	2008	2009
Funding	$12,720	$10,019	$15,800	$15,267
FTEs	.06	.1	.1	.1

Objective 3.4: Reduce siltation and the pollution of water bodies and streams

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land and Water Regulation						
Permit Inspection and Enforcement	Inspections	Number of Inspections	147	84	126	194
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180

Means & Associated Resources

	2006	2007	2008	2009
Funding	$9,376	$11,311	$17,585	$27,095
FTEs	.3	..2	.2	.4

Objective 3.5: Ensure a dependable water supply and ensure the integrity of natural drainage patterns

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land and Water Regulation						
Environmental Review	Environmental Review	Number of Environmental reviews occurring	10	3	9	1
Permit Review	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes
Research						
Monitoring	Infiltration Rate	Report on infiltration rates in established infiltration basins on varying soil types	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$6,106	$12,576	$20,098	$9,280
FTEs	.04	.1	.2	.1

Goal 4: Establish uniform local policies and controls for surface and groundwater management

Objective 4.1: Provide for active involvement of the public and related units of government in developing and implementing water management plans and activities

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Involvement	Advisory Committees	Number of meetings	6	6	9	3
	Comprehensive Plan Development	Number of Workshops/Reviews	1	4	6	0

Means & Associated Resources

	2006	2007	2008	2009
Funding	$1,523	$2,260	$3,391	$ 873
FTEs	.02	.02	.04	.01

Objective 4.2: Coordinate the policies, plans, programs, and regulations of all state and local agencies are consistent with the comprehensive management plan

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Involvement	Coordination with Local and County Government	Number of TAC	23	14	20	36
	Local Water Plan Review and Approval	Number of Local Plans reviewed	1	9	9	6
	Plan & Permit Coordination	Number of TEP meetings	18	17	23	34

Means & Associated Resources

	2006	2007	2008	2009
Funding	$11,854	$7,770	$11,232	$15,862
FTEs	.16	.1	.1	.2

Objective 4.3: Provide information to the public and decision makers

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Information	Low Impact Development	Number of Drainage Sensitive/ Low impact developments reviewed	24	17	5	3
	Model Ordinance Principles/Standards	Number of Ordinances adopted	1	1	0	0
	Watershed District Rules and Standards		Yes	Yes	Yes	Yes
Involvement	Agenda Distribution	Number on distribution list	41	43	45	56

Means & Associated Resources

	2006	2007	2008	2009
Funding	$3,440	$21,880	$24,802	$26,242
FTEs	.08	.23	.3	.3

Objective 4.4: Define the roles and responsibilities of governmental units in implementing land use controls for the protection of groundwater quality

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Information	Low Impact Development	Number of Drainage Sensitive/ Low impact developments reviewed	24	17	5	3
	Model Ordinance Principles/Standards	Number of Ordinances adopted	1	1	0	0
Involvement	Comprehensive Plan Development	Number of Workshops/Reviews	1	4	6	0

Means & Associated Resources

	2006	2007	2008	2009
Funding	$2,915	$3,655	$3,751	n/a
FTEs	.09	.04	.04	0

Objective 4.5: To encourage compatibility between land use activities upstream and down stream and natural resource capacity

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Board Review and Action	Number of permit reviews by Board	119	86	67	44
	Capacity analysis	Number of permit application reviewed	147	110	78	38
	Permit Review & Findings	Number of permit application reviewed	147	106	179	115
Public and Governmental Relations						
Information	Low Impact Development	Number of Drainage Sensitive/ Low impact developments reviewed	24	17	5	3
	Model Ordinance Principles/Standards	Number of Ordinances adopted	1	1	1	0

Means & Associated Resources

	2006	2007	2008	2009
Funding	$26,926	$40,517	$40,624	$27,095
FTEs	.8	.5	.5	.4

Goal 5: To prevent soil erosion into surface water systems

Objective 5.1: Encourage the utilization of all appropriate best management practices for erosion and sediment control and stormwater management

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Inspection and Enforcement	Inspections	Number of Inspections	147	84	126	194
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180

Means & Associated Resources

	2006	2007	2008	2009
Funding	$9,376	$11,311	$17,585	$27,095
FTEs	.26	.15	.24	.4

Objective 5.2: Ensure performance of permit requirements

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Inspection and Enforcement	Inspections	Number of Inspections	147	84	126	126
Permit Review	Fees & Escrows	Monies collected and returned. Percentage of escrows returned	20.6%	39.2%	115.7%	115.7%

Means & Associated Resources

	2006	2007	2008	2009
Funding	$7,594	$10,091	$4,376	
FTEs	.2	.1	.2	

Goal 6: To promote groundwater recharge

Objective 6.1: Encourage the utilization of all appropriate best management practices for erosion and sediment control and stormwater management

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180
Research						
Monitoring	Infiltration Rate	Report on infiltration rates in established infiltration basins on varying soil types	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$5,322	$13,814	$14,695	$8,052
FTEs	.05	.15	.2	0.1

Objective 6.2: Monitor, evaluate and permit plans and programs affecting the water and related land resources of the District

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Permit Review & Findings	Number of permit applications reviewed	147	106	179	115

Means & Associated Resources

	2006	2007	2008	2009
Funding	$6,328	$9,724	$16,420	$10,865
FTEs	.2	.14	.2	0.14

Objective 6.3: Focus on the performance of water and related land resources runoff

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Environmental Review	Environmental Review	Number of Environmental reviews occurring	5	3	9	1
Permit Review	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$1,292	$826	$8,348	$6,330
FTEs	.04	.01	.1	0.08

Objective 6.4: Monitor the actual rate of infiltration on various sites in the watershed; the District will rely on its staff to collect and analyze the data

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Research						
Monitoring	Infiltration Rate	Report on infiltration rates in established infiltration basins on varying soil types	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$3,540	$11,750	$11,750	$2,950
FTEs	.02	0.1	.1	0.0

Objective 6.5: Review and comment on plans, permits, assessments and studies issued by Federal, state and local units of government

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Environmental Review	Environmental Review	Number of Environmental reviews occurring	10	3	9	1

Means & Associated Resources

	2006	2007	2008	2009
Funding	$1,292	$826	$2,477	$283
FTEs	.04	.01	.03	0.00

Goal 7: To protect and enhance fish and wildlife habitat and water recreational facilities

Objective 7.1: To discourage the loss of wildlife and vegetation and the habitats on which they depend

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180
	Conservation Easements	Number of easements dedicated	283	50	32	0
Planning						
Annual Assessment, Reporting and Planning	Metro Greenways program	Acres protected	4	120	0	0

Means & Associated Resources

	2006	2007	2008	2009
Funding	$23,712	$11,250	$8,229	$5,102
FTEs	.6	.15	.11	0.07

Objective 7.2: To protect, preserve and manage unique resource areas and unique and/or endangered species of plants and animals that populate these areas from the impact of unplanned development

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Habitat Management Plans	Number of plans	0	0	0	1
	Permit Review & Findings	Number of permit application reviewed	147	106	179	115
Public and Governmental Relations						
Information	Low Impact Development	Number of Drainage Sensitive/ Low impact developments reviewed	24	17	5	3
Involvement	Advisory Committees	Number of meetings	6	6	9	3
	Coordination with Local and County Government	Number of TAC	23	14	20	36

Means & Associated Resources

	2006	2007	2008	2009
Funding	$17,617	$13,661	$21,867	$17,372
FTEs	. 36	.13	.3	0.20

Objective 7.3: To focus on the performance of water and related land resources

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Board Review and Action	Number of permit reviews by Board	119	86	67	44
	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes
Public and Governmental Relations						
Involvement	Regular Meetings	Number of Meeting per year	23	20	22	22

Means & Associated Resources

	2006	2007	2008	2009
Funding	$27,634	$26,352	$27,418	$21,719
FTEs	.5	.4	.4	.3

Goal 8: To secure the other benefits associated with the proper management of surface and groundwater

Objective 8.1: To implement an education program that addresses each minimum control measure

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Education	Conferences and Workshops	Number of Conferences	5	6	11	14
	General Education	Total public education efforts	20	87	63	203
	Stormwater Ed Materials	Number of materials/events	20	23	28	24

Means & Associated Resources

	2006	2007	2008	2009
Funding	$8,976	$55,806	$45,775	$19,027
FTEs	.23	.6	.5	0.2

Objective 8.2: To support education opportunities for K-12

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Education	HS Presentations		1	2	2	0
	Water Quality Education Grants	Number grants and grant budget	1	1	5	2

Means & Associated Resources

	2006	2007	2008	2009
Funding	$1,234	$409	$3,738	$227
FTEs	.03	.01	.05	.01

Objective 8.3: To increase and maintain the public interest in and support for District management programs

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Information	Demonstration Projects	Number of demonstration projects	1	0	5	4
	Representation at Special Events	Number of presentations	9	13	15	954

Means & Associated Resources

	2006	2007	2008	2009
Funding	$7,318	$1,154	$1,766	$1,528
FTEs	.11	.01	.02	0.01

Objective 8.4: To reach as large and diverse an audience as possible

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Information	Articles- City News Letters	Number of articles	11	18	30	18
	Web Site	Web Site updates	13	11	43	99

Means & Associated Resources

	2006	2007	2008	2009
Funding	$2,833	$5,604	$10,502	$8,634
FTEs	.07	.06	.1	0.1

Goal 9: To conserve natural resources through land use planning, flood control, and conservation projects

Objective 9.1: To protect the health and safety of the present and future people that live within the watershed

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Environmental Review	Environmental Review	Number of Environmental reviews occurring	10	3	9	1
Issues and Complaints	Emergency Work	Number of emergency actions authorized	1	1	1	0
	Issues	Number of issues	80	77	75	101
Permit Inspection and Enforcement	Permits	Number of Permits	46	18	28	24
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180
	Permit Review & Findings	Number of permit application reviewed	147	106	179	115
	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes
Operations & Maintenance						
Repair	Ditch Repair	Number of projects	4	3	11	
Planning						
Comprehensive Planning	Comprehensive Plan	Comprehensive Plan (Up Date)	Yes	Yes	Yes	Yes
Public and Governmental Relations						
Involvement	Issue Management Hotline	Number of issues	83	77	74	100
Research						
Inspections	Ditch Inspection	Number of inspections	4	2	2	3

Means & Associated Resources

	2006	2007	2008	2009
Funding	$29,386	$41,680	$105,370	$58,426
FTEs	. 7	.6	1.3	0.7

Objective 9.2: To provide for opportunities and uses of water and related natural resources of the watershed which are demanded and appropriate for the area

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes
Planning						
Comprehensive Planning	Comprehensive Plan	Comprehensive Plan (Up Date)	Yes	Yes	Yes	Yes
	Differentiate Role	Comprehensive Plan - Stream Order map	Yes	Yes	Yes	Yes
Public and Governmental Relations						
Involvement	Comprehensive Plan Development	Number of Workshops/Reviews	1	4	6	0
	Coordination with Local and County Government	Number of TAC meetings	23	14	20	36
	Hearings	Number of Hearings	2	4	3	3
	Local Water Plan Review and Approval	Number of Local Plans reviewed	1	9	9	6
	Plan & Permit Coordination	Number of TEP meetings	18	17	23	34
	Stakeholder Meeting	Number of Meetings	13	138	48	

Means & Associated Resources

	2006	2007	2008	2009
Funding	$15,225	$14,016	$34,740	$28,093
FTEs	.2	.1	.3	0.3

Objective 9.3: To prevent unacceptable damage to the water and related natural resources of the watershed

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Environmental Review	Environmental Review	Number of Environmental reviews occurring	10	3	9	1
Permit Inspection and Enforcement	Inspections	Number of Inspections	147	84	126	194
	Permits	Number of Permits	46	18	28	24
Permit Review	Best Management Practices (BMPs)	Number of BMPs	138	75	107	180
	Board Review and Action	Number of permit reviews by Board	119	86	67	44
	Conservation Easements	Number of easements dedicated	283	50	32	0
	Permit Review & Findings	Number of permit application reviewed	147	106	179	115
	Regulations and Performance Standards	Continued performance and improvement of the complete water resource system	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$54,889	$54,114	$66,847	$57,441
FTEs	1.53	.74	.9	0.8

Goal 10: To use sound scientific principals for the protection of public health and welfare, and the provident use of natural resources

Objective 10.1: To monitor the hydrology of Coon Creek and key water resources

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Research						
Monitoring	Infiltration Rate	Report on infiltration rates in established infiltration basins on varying soil types	Yes	Yes	Yes	Yes
	Lake Level	Water Atlas report on trends in lake level elevations	Yes	Yes	Yes	Yes
	Precipitation	Water Atlas report on precipitation amounts, frequency and distribution	Yes	Yes	Yes	Yes
	Stream Level	Water Atlas report on annual hydrographs and peak elevations for various locations within the watershed	Yes	Yes	Yes	Yes
	Wetland Hydrology	Water Atlas report on wetland hydrology	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$11,620	$20,185	$20,185	$13,020
FTEs	.07	.6	.6	0.0

Objective 10.2: To model updated hydrologic and hydraulic data

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Research						
Modeling	HydroCAD	Convert HydroCAD to XPSWMMM	Yes	Yes	Yes	Yes
	Water Budget	Updated Budget	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$4,579	$13,000	$13,000	$0
FTEs	.04	.13	.13	0.0

Objective 10.3: To monitor the water quality of Coon Creek and key water resources

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Research						
Monitoring	Lake Water Quality	Water Atlas report on lake water quality trends	Yes	Yes	Yes	Yes
	Lower Coon Creek Water Quality	Water Atlas report on Stream water quality trends	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding	$2,650	$5,540	$5,540	$9,548
FTEs	.01	.2	.2	0.0

Goal 11: To ensure that the continued planning and management of Coon Creek Watershed District is responsive to the needs and concerns of an informed public

Objective 11.1: To provide information to the public and to decision makers

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Environmental Review	Environmental Review	Number of Environmental reviews occurring	10	3	9	1
Permit Review	Notice of Decision and Status of Application	Number of Decision Notices prepared	203	101	209	105
Public and Governmental Relations						
Information	Developer's Handbook: Principles and Standards	Development of Application packet and Handbook	0	1	0	0
	Low Impact Development	Number of Drainage Sensitive/ Low impact developments reviewed	24	17	5	3
	Model Ordinance Principles/Standards	Number of Ordinances adopted	1	1	0	0
	Pre-application Conferences/Land Owner Contacts	Number of pre-application conferences	41	29	19	18
	Watershed District Rules and Standards		Yes	Yes	Yes	Yes
Involvement	Advisory Committees	Number of meetings	6	6	9	3
	Agenda Distribution	Number on distribution list	41	43	45	56
	Comprehensive Plan Development	Number of Workshops/Reviews	1	4	6	0
	Open Mike	Number of open mike presentations	2	0	0	1
	Regular Meetings	Number of Meeting per year	23	20	22	22
	Stakeholder Meeting	Number of Meetings	13	138	48	

Means & Associated Resources

	2006	2007	2008	2009
Funding	$35,608	$46,394	$65,201	$40,097
FTEs	.6	.5	.7	.4

Objective 11.2: Coordinate the policies, plans, programs, and regulations of all state and local agencies are consistent with the comprehensive management plan

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Involvement	Coordination with Local and County Government	Number of TAC	23	14	20	2
	Local Water Plan Review and Approval	Number of Local Plans reviewed	1	1	9	6
	Plan & Permit Coordination	Number of TEP meetings	18	17	23	34

Means & Associated Resources

	2006	2007	2008	2009
Funding	$11,854	$7,770	$11,232	$15,862
FTEs	.16	.08	.10	.2

Objective 11.3: To ensure that the key issues are identified and that acceptable solutions are included in the plan

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Land & Water Regulation						
Permit Review	Board Review and Action	Number of permit reviews by Board	119	86	67	44
Planning						
Annual Assessment, Reporting and Planning	Annual Report and Plan	Board review and adoption; Submittal to BWSR	Yes	Yes	Yes	Yes
Budgeting and Program Planning	Annual Priorities	Budget goals and themes	Yes	Yes	Yes	Yes
Public and Governmental Relations						
Involvement	Annual Open House Meeting	Completed meeting and attendance	Yes	Yes	Yes	Yes
	Coordination with Local and County Government	Number of TAC	23	14	20	36

Means & Associated Resources

	2006	2007	2008	2009
Funding	$27,333	$35,872	$40,792	$27,078
FTEs	.6	.4	.4	0.3

Objective 11.4: To provide for active involvement of the public and related units of government in developing and implementing water management plans and activities

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Involvement	Issue Management Hotline	Number of issues	83	77	74	100
	Open Mike	Number of open mike presentations	2	0	1	1

Means & Associated Resources

	2006	2007	2008	2009
Funding	$5,145	$3,626	$3,815	$5,142
FTEs	.12	.04	.04	0.1

Objective 11.5: To provide opportunities for the public to participate in water quality activities

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Involvement	Advisory Committees	Number of meetings	6	6	9	3
	Citizen Assisted Monitoring Program (CAMP)	Number of participants	1	1	1	1
	Comprehensive Plan Development	Number of Workshops/Reviews	1	4	6	0
	Hearings	Number of Hearings	2	4	3	3
	Lakeshore Homeowners Associations	Number of contacts with Lake Association	6	13	23	27
	Stakeholder Meeting	Number of Meetings	13	138	48	57

Means & Associated Resources

	2006	2007	2008	2009
Funding	$4,483	$3,635	$10,847	$5,325
FTEs	0.08	.04	.10	0.1

Objective 11.6: To provide opportunities for the public to participate in water quality activities

Long Term Outcome Measures:

Strategy/Program	Activities/BMPs	Outputs	2006	2007	2008	2009
Public and Governmental Relations						
Involvement	Citizen Assisted Monitoring Program (CAMP)	Number of participants	1	1	1	1
	Creek Clean up-Adopt-A-Stream Programs	Occurrence	Yes	Yes	Yes	Yes

Means & Associated Resources

	2006	2007	2008	2009
Funding		$1,130	$1,695	$5,821
FTEs		0.02	.02	.1