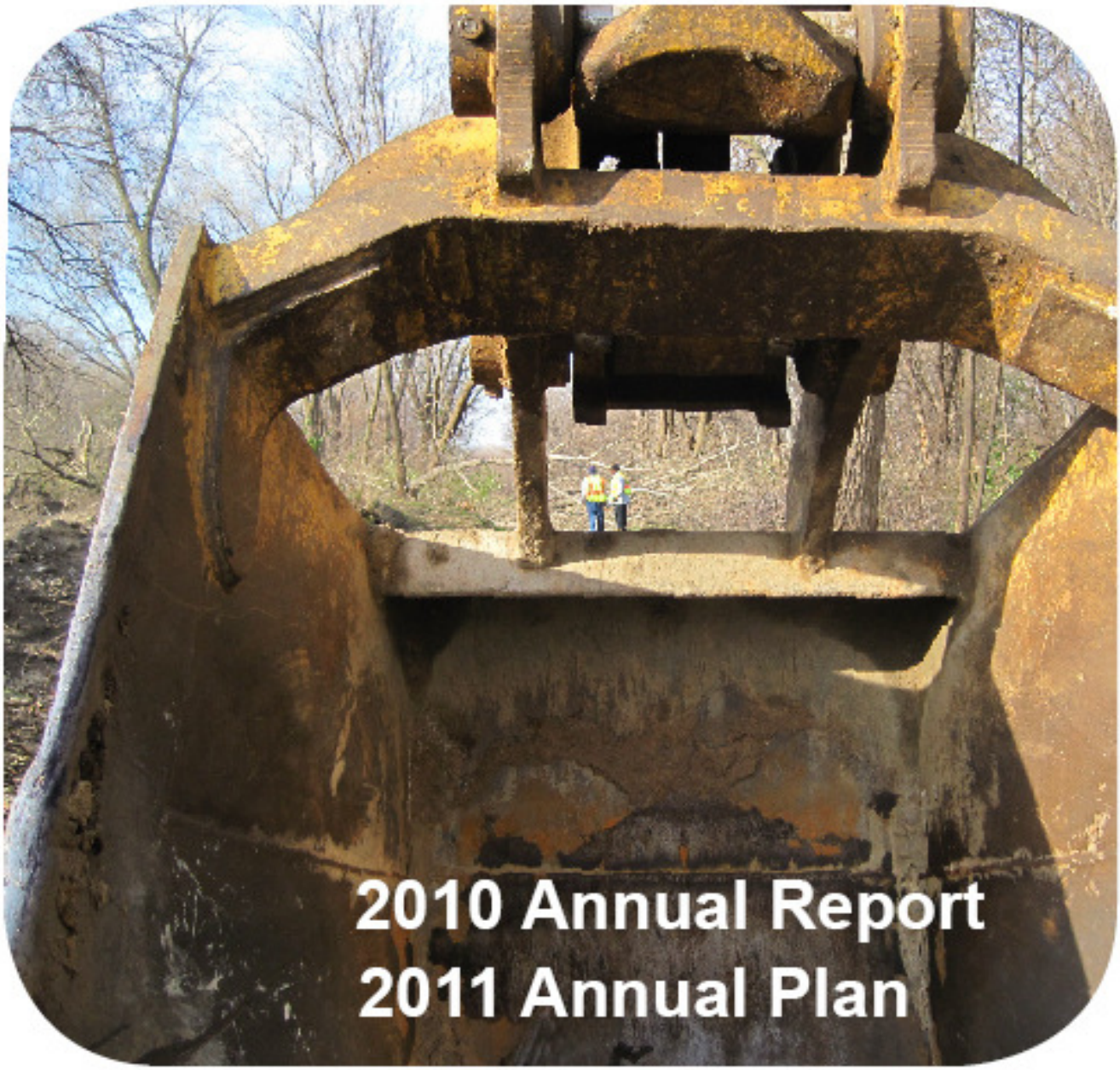

2010 Annual Report
2011 Annual Plan

Coon Creek Watershed District

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

Approved by the Coon Creek Watershed District Board of Managers April 11, 2011

Coon Creek Watershed District
Managers and Staff 2010-11

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

2. Coon Creek Watershed District At a Glance

Introduction

The Coon Creek Watershed District (District) was created in 1959. The Watershed encompasses 92 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

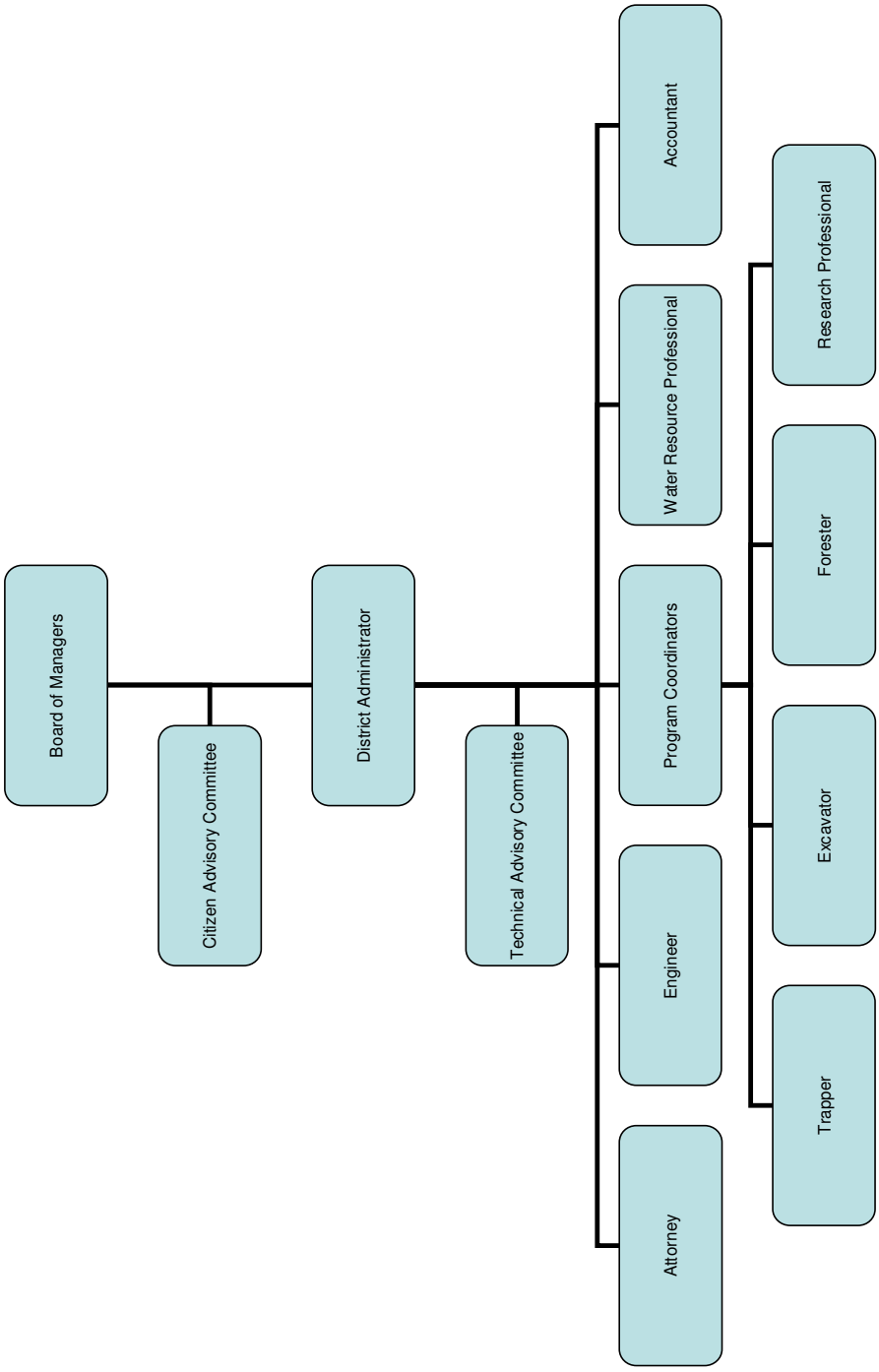
A Board of Managers administers the District. The Board is composed of five members representing different areas of the District. Each Manager

- 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 goals. To pursue the goals, the Coon Creek Watershed District operates six programs which oversee 22 basic tasks: The programs are:

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

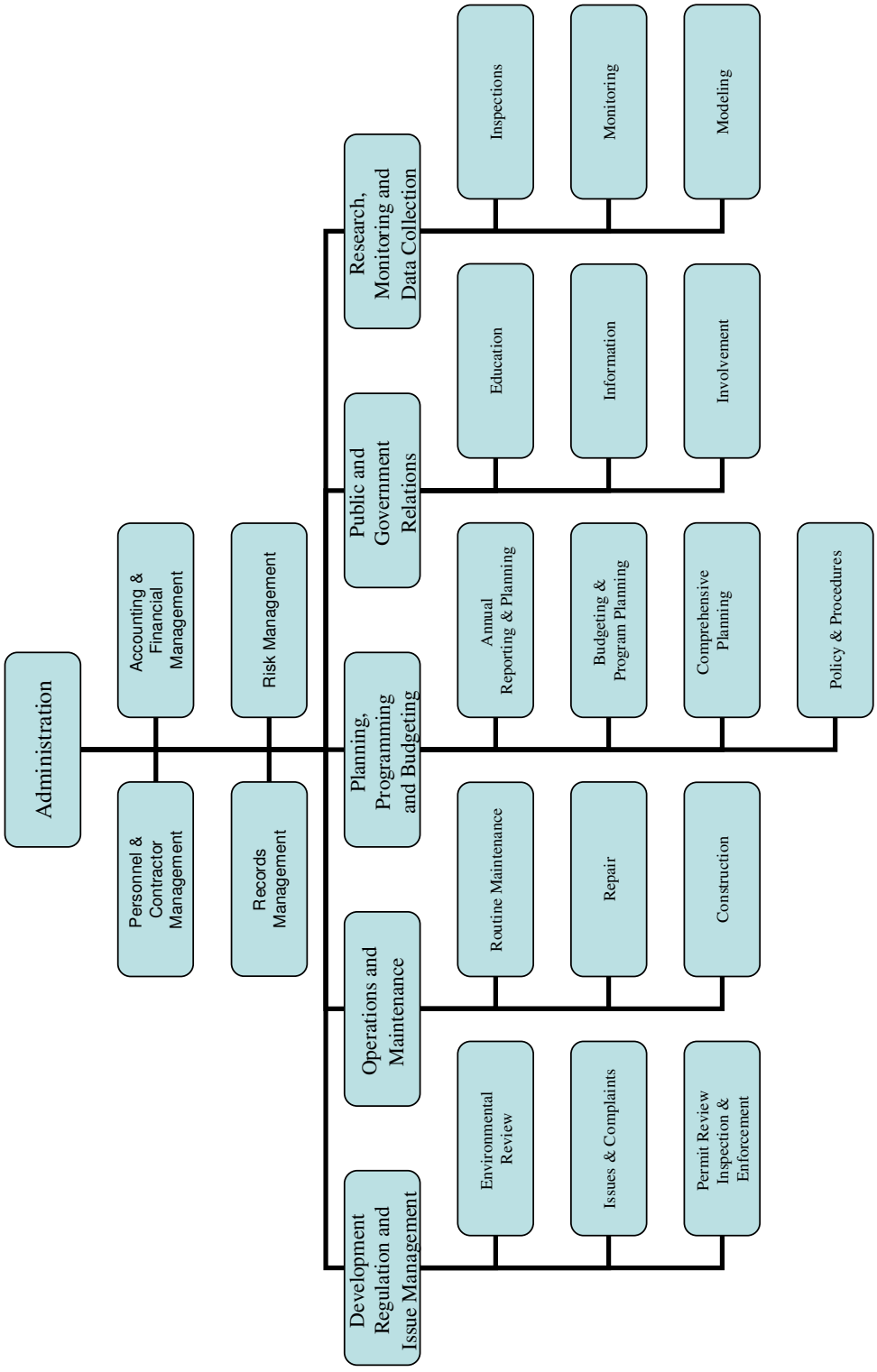
Link to District Budget

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 2010 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.

Acceptable — 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.

Deteriorating — 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.

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.

Measures	2006	2007	2008	2009	2010
Precipitation	Serious	Serious	Serious	Serious	Acceptable
Groundwater					
Water Table	Deteriorating	Deteriorating	Serious	Serious	Serious
Stream/Ditch					
Hydrology	Acceptable	Acceptable	Deteriorating	Serious	Serious
Water Quality	Deteriorating	Deteriorating	Serious	Serious	Serious
Biology	Serious	Serious	Serious	Serious	Serious
Lakes					
Hydrology	Deteriorating	Serious	Serious	Serious	Deteriorating
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:

1. Board of Managers
2. Records
3. Contract and Personnel Administration
4. Training and Seminars
5. Financial Management
6. Risk Management

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

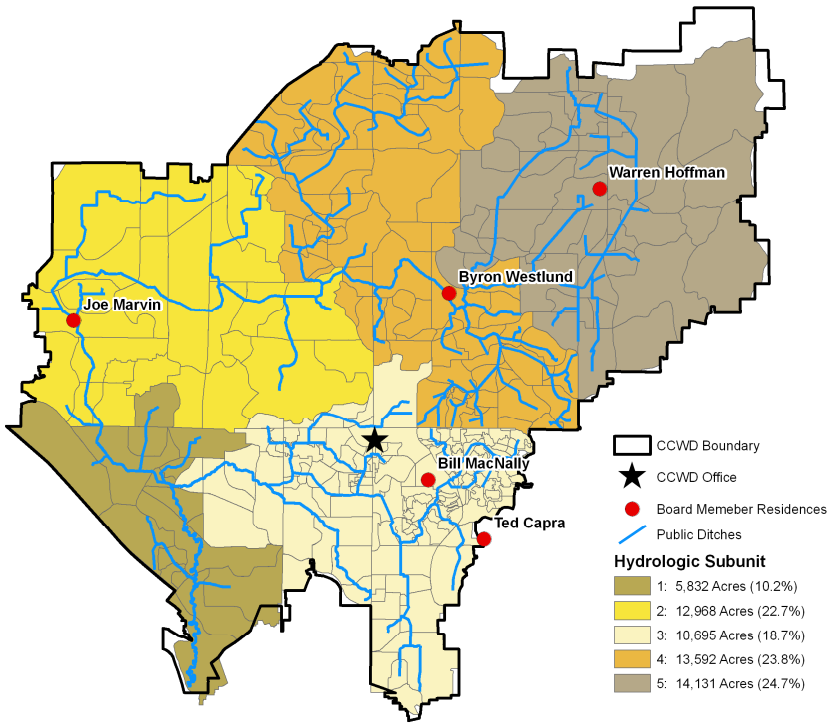
The District is governed by a Board of Managers. The Board is composed of five members representing different geographic areas of the District. Each Manager serves a staggered three-year term, is nominated by his or her local unit of government, and is appointed by the Anoka County Board.

Name		2010 Office	Appointed	Current Term Ends	Phone
Ted	Capra	Treasurer	2005	**2011**	(763) 783-8533
Warren	Hoffman	Vice President	2000	2013	(763) 434-5729
Bill	MacNally	At Large	2003	2013	(763) 951-2667
Joe	Marvin	Secretary	1993	**2011**	(763) 427-1131
Byron	Westlund	President	2006	2012	(763) 427-7500

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.

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



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.

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

Administer Records Retention & Disposal Policy and procedure

Program	Record	Retention (Yrs)	2009	2010	2011	2012	2013
Administration	Expired Service Contracts	10	≤1998	1999	2000	2001	2002
	Financial Details	6	<2003	2004	2005	2006	2007
	Employment Apps & Resumes	1	<2008	2009	2010	2011	2012
	Separated Personnel files	5	≤2003	2004	2005	2006	2007
	Timesheets	6	<2002	2003	2004	2005	2006
	Contracts & Leases	10	<1999	2000	2001	2002	2003
Operations	Bids & specs	6	≤2002	2003	2004	2005	2006
Planning	Budget work papers	2	≤2006	2007	2008	2009	2010
I&E	Conference & Workshop Info	6	≤2003	2004	2005	2006	2007

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 2010 the Board met 18 times. Five regularly scheduled meetings were cancelled. All of the cancelled meetings occurred on the second Monday of the month.

Outcome	2009 Actual	2010 Budget	2010 Actual	2011 Budget	2012 Forecast	2013 Forecast
Number of Meetings	22	22	18	18	18	18
Per Diem	$ 5.800.00	$ 6,300.00	$ 5,800.00	$ 5,800.00	$ 5,800.00	$ 5,800.00

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	2009 Actual	2010 Forecast	2010 Actual	2011 Forecast	2012 Forecast	2013 Forecast
Policy	**167**	**160**	**143**	**145**	**145**	**150**
Permit Review	**44**	**40**	**39**	**40**	**40**	**45**
Discussion	**40**	**40**	**49**	**45**	**45**	**50**
Information	**32**	**25**	**30**	**30**	**30**	**30**
Total	**283**	**265**	**261**	**268**	**260**	**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)

Notice	2009	2010	2011	2012	2013
Request for Bids		1			
Boundary	1	1	1		
Budget	1	1	1	1	1
SWPPP Meeting	1	1	1	1	1
Request for Interest – Eng	1		1		1
Request for Interest – Legal	1		1		1
Rules	1			1	
Legal Notice	6	4	5	3	4
Unit Cost					
Budget	**$ 3,090.00**	**$ 3,090.00**	**$ 3,142.00**	**$ 3,205.00**	**$ 3,269.00**

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. The Advisory Committee must have at least the following members

Measures	2009	2010	2011	2012	2013
Board Action	-	-	-		
Anoka County	Robyn West	Robyn West	Carol LeDoux	Carol LeDoux	
Anoka Conservation District	Jim Lindahl	Jim Lindahl	Jim Lindahl	Jim Lindahl	
Conservation Organization					
Agriculture Organization					
Andover					
Blaine					
Columbus					
Coon Rapids					
Fridley					
Ham Lake					
Spring Lake Park					

Technical Advisory Committee

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	2009	2010	2011	2012	2013
Number of meetings	2	6	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 retires	successor
Fridley			Jim Kosluchar	Jim Kosluchar	Jim Kosluchar
Ham Lake	Tom Collins	Tom Collins	Tom Collins	Tom Collins	Tom Collins
Spring Lake Park			Joe Rhein	Joe Rhein	Joe Rhein
BWSR	Melissa Lewis	Melissa Lewis	Melissa Lewis	Melissa Lewis	Melissa Lewis
DNR	Kate Drewry	Kate Drewry	Kate Drewry	Kate Drewry	Kate Drewry
MPCA	Denise Leezer	Denise Leezer	Brooke Asleson	Brooke Asleson	Brooke Asleson

Technical Evaluation Panel

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	2009	2010	2011	2012	2013
Number of meetings	34	34	30	33	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	Tim Fell / Marie Kopka	Marie Kopka	Marie Kopka
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
Coon Rapids	Dave Full	Dave Full	Dave Full	Dave Full retires	Dave Full successor
Fridley			Jim Kosluchar	Jim Kosluchar	Jim Kosluchar
Ham Lake	Tom Collins	Tom Collins	Tom Collins	Tom Collins	Tom Collins
Spring Lake Park			Joe Rhein	Joe Rhein	Joe Rhein
DNR	Kate Drewry	Kate Drewry	Kate Drewry	Kate Drewry	Kate Drewry
MPCA	Paul Estuesta	Paul Estuesta	Shawn Nelson	Shawn Nelson	Shawn Nelson

Staff	Position	FTE	Years of Service	2010 Training Sessions	2010 Training (Hrs)
Tim Kelly	District Administrator	1.0	21.0	3	24
Diana Shonyo	Administrative Assistant	1.0	2.5	1	8
Dawn Doering	Information and Education Coord.	1.0	4.5	2	16
Tom Gile	Regulatory Affairs Coordinator	1.0	2.5	3	24
T.J. Helgeson	Operations & Maintenance Coord.	1.0	1.0	2	16

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 & Services (RRS)

Service	Provider	2009	2010	2011	2012	2013
Engineering	Wenck & Associates	SIP	RRS	**SIP**	RRS	SIP
Legal	Michelle Ulrich	SIP	RRS	**SIP**	RRS	SIP
Accounting	Anoka County	RRS		**RRS**		RRS
GIS	GIS Rangers		RRS	**RRS**	RRS	
Water Quality	Anoka Conservation District	RRS	RRS	**RRS**	RRS	RRS
Trapping	Rick Johnson	SIP	RRS	**RRS**	RRS	SIP

Service	Provider	2009	2010	2011	2012	2013
Tree Services	P & C Tree Service	SIP	RRS	**RRS**	RRS	SIP

Other Service Providers

Service	Provider	Formal Agreement ?	Term (yrs)	Current ?
Audit Service	Minnesota State Auditor	Yes	1	Yes
Banking: Magic Fund	US Bank	No	na	Yes
Beaver Control	Ricks Deer & Beaver	No	2	Yes
Computer Support	Techstar Solutions	No	1	Yes
Domain Name:	Network Solutions	Yes	9	Yes
Equipment Maintenance	Metro Sales	Yes	1	Yes
GIS Services	GIS Rangers	Yes	1	Yes
Insurance	Bearence Management Group	Yes	1	Yes
License ArcView	ESRI	Yes	1	Yes
License for use of digital photos	Anoka County	Yes	1	Yes
Maintenance Office	A1	No	1	Yes
Meeting Room Rental	Anoka County Parks	No	1	Yes
Membership	League of Minnesota Cities	Yes	1	Yes
Mobile Phone Service	Verizon	Yes	2	Yes
Mobile Phone Service - Data	T - Mobile	Yes	2	Yes
Monitoring	Anoka Conservation District	Yes	2	Yes
Official News Paper	ECM Publishers	No	1	Yes
Payroll	Anoka County	Yes	na	Yes
Phone System	Integra Telecom, Inc	Yes	3	Yes
Photocopier Rental	GE Capital	Yes	5	Yes
Professional Organization	MN Assoc. Watershed Districts	No	1	Yes
Professional Service: Engineer	Wenck & Associates	Yes	2	Yes
Professional Service: Legal	Michelle Ulrich	Yes	2	Yes
Rental Space	Blaine Office Partners	Yes	4	No
Software Maintenance	Solbrekk	No	1	Yes
Telecommunications	Avenet LLC (GovOffice)	No	1	Yes
Tree Removal	P&C Tree Service	Yes	2	Yes

Stormwater U Road Salt BMP Training Workshop, Blaine February 2010

Conferences/Seminars & Training

Measures	2009	2010	2011	2012	2013
Hours of Training	88	96	**100**	100	100
Number of classes/conferences	4	11	**5**	5	5
Budget	**$ 6,855.00**	**$ 6,855.00**	**$ 6,971.00**	**$ 7,110.00**	**$ 7,252.00**

Required Certifications & Training

Certifications	2009	2010	2011	2012	2013
Best Management Practices	*				
Construction Site Management					*
Design of Construction SWPPPs				*	
Illicit Discharge Detection & Elimination		*			
P8 Modeling			*		
Regulatory Enforcement	*				
Volume Control	*				
Wetland Delineation	*			-	

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	2009	2010	2011	2012	2013
Annual Review of Fund Equity	1/12/09	1/11/10	1/10/11	1/9/12	1/14/13
Board approval of fund equity designation	1/12/09	1/11/10	1/10/11	1/9/12	1/14/13
Amount	$350,000	$323,000	$250,000	$255,000	$260,000
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 team auditing Anoka County. The timing of the District audit is subject to work load and availability of the State Auditor.

Task	2009	2010	2011	2012	2013
Status	Ordered	Ordered	Yes	Yes	Yes
Ordered	12/14/09	12/13/10	12/15/11	1/14/13	1/13/14
Entrance Interview	2/13/09	1/5/11	2/10/11		
Board review of Auditors comments	12/14/09	3/14/11	4/28/12	3/26/12	3/25/13
Final Audit	4/13/10	4/30/11	4/30/12	4/30/13	4/30/14

Audit Year	Issues	Need	2009	2010	2011	2012	2013
2001	Accounting of Escrows (01-02)	Closer Coordination with Anoka County Finance – Escrows	**Not Resolved**	**Resolved**			
2004	Capital Assets Retirement (04-01)	Retire fully depreciated assets	**Resolved**				
2006	Preparation of Financial Statements (06-01)	Internal preparation of annual financial statements	**Resolved**				
2007	Audit Adjustments (07-01)	Ensure that financial reports adjustments are reported according to GAAP	**Resolved**				

Financial Condition of Coon Creek Watershed District

Assets	YE 2009 Amt	Pct	Chng	YE 2010 Amt	Pct	Chng
Cash & Investments	2,125,011	98%	-10%	1,380,986	94%	-35%
Receivables	19,836	1%	-7%	21,310	1%	7%
Due from Other Governments	8,225	0%	-65%	41,213	3%	401%
Fixed Assets	8,537	0%	-56%	27,143	2%	218%
Total Assets	**2,161,609**	**100%**	**-11%**	**1,470,652**	**100%**	**-32%**
Liabilities						
Accts Payable	42,272	3%	90%	85,311	7%	102%
Salaries Payable	8,730	1%	-1%	11,600	1%	33%
Due to Other Governments	35,554	2%	-57%	1,180	0%	-97%
Funds Held in trust	1,552,464	93%	0%	1,034,031	88%	-33%
Long Term Liabilities	33,818	2%	6%	37,466	3%	11%
Total Liabilities	**1,672,838**	**100%**	**-1%**	**1,169,588**	**100%**	**-30%**
Fund Equity						
Investment in Gen fixed Assets	8,537	2%	-56%	27,143	9%	218%
Fund Balances	480,234	98%	-33%	273,921	91%	-43%
Total Fund Equity	**488,771**	**100%**	**-33%**	**301,064**	**100%**	**-38%**
Total Liabilities & Fund Equity	**2,161,609**	**100%**	**-11%**	**1,470,652**	**100%**	**-32%**

Change in Net Assets Governmental Activities

	2009	2010	Pct Change
Revenues			
Program Revenues			
Charges, Fees & Other	$ 4,284	$ 49,266	1050.0%
Operating Grants	2,365	75,873	3108.2%
General Revenue			
Property Taxes	567,901	559,041	-1.6%
State aid	27,440	30,135	9.8%
Investment Income	5,459	1,726	-68.4%
Miscellaneous	-	1,442	
Total Revenues	$ 607,449	$ 717,483	18.1%
Expenses			
Program Expenses			
Conservation of Natural Resources	851,152	905,220	6.4%
Increase (Decrease) in Net Assets	(243,703)	(187,737)	-23.0%
Net Assets - January 1	732,504	488,801	-33.3%
Net Assets - December 31	488,801	301,064	-38.4%

Capital Assets at Year-End

	2009	2010
Equipment	$ 64,258	$ 63,093
Less: Accumulated depreciation	(55,721.00)	(35,950.00)
Net Capital Assets	$ 8,537	$ 27,143

Condition of Fully Depreciated Capital Assets

Class	Type	Location	Expected Life (yrs)	Pct Deprec.	Condition	Need	Replace Cost
Office Equipment	Conf Table & Chairs	Office Conf Room	20	108%	Poor	**Replace**	**$3,300.00**
	2-Drawer File	Office	3	90%	Poor	Dispose	
	Book Cases (X4)	Office	20	100%	Fair	None	
	Recording Box	Storage	10	137%	Good	Dispose	
	Mics, Mixer Recorder	Storage	5	275%	Fair	Dispose	
Data Processing	Computers (X5)	Office	3	128%	Good	None	
Field Equipment	Planimeter	Office	5	236%	Good	None	
	Soil Probe	Office	10	193%	Poor	Replace?	$94.00
	Level	Office	10	193%	Good	None	
	Soil Chart	Office	10	193%	Fair	None	
	Compass	Office	10	192%	Fair	None	
	Magnifier	Office	10	186%	Fair	None	
	Tape	Office	10	177%	Poor	Replace?	$28.00
	Auger	Office	10	162%	Fair	None	
	Camera	Office	3	91%	Fair	None	
Monitoring	Data Loggers(x5)	Field with rain gages	4	150%	Poor	Replace?	$105.00
	Rain Gage(x5)	Field	10	127%	Fair	Replace?	$112.00
	WL-40s (x8)	Field	5	236%	Fair	**Replace 2/yr**	**$235.00x2 = $470.00**

An Assessment Of Changes In Fund Balances & Expenditures

2010	Fund			
	Administrative	509 Management	Operations & Maint	Total: Proj 10
Balance 1/1/2010	230,200	279,744	22,030	**531,974**
Projected Additional Income (Taxes Rcvbl)	66,012	562,869	65,246	**694,127**
Total	**296,212**	**842,613**	**87,276**	**1,226,101**
Forecast: Remaining Operating Costs				
Salaries & Benefits		320,515		**320,515**
Professional Services		258,660		**258,660**
Operating Expenses	12,447	54,388		**66,835**
Routine Maintenance		19,511		**19,511**
Repair		8,985		**8,985**
Construction		51,286	141,734	**193,021**
Monitoring		25,785		**25,785**
Other		15,043		**15,043**
Capital Equipment		27,049		**27,049**
Total Forecast: Operating Cost-Balance	12,447	781,222	141,734	**935,404**
Projected Year-End Balance 12/31/2010	**283,765**	**61,391**	**(54,459)**	**290,697**

2011 Projection		509	Operations &	
	Administrative	Management	Maint	Total: Proj 11
Balance 1/1/2011	**283,765**	**61,391**	**(54,459)**	**290,697**
Projected Additional Income (Taxes Rcvbl)	5,990	668,646	30,504	**705,140**
Fees		20,183		**20,183**
Other		84,846	166,791	**251,637**
Total	**5,990**	**773,675**	**197,295**	**976,960**
Forecast: Remaining Operating Costs				
Salaries & Benefits		353,116		**353,116**
Professional Services		266,337		**266,337**
Operating Expenses		103,721		**103,721**
Routine Maintenance			10,908	**10,908**
Repair			65,908	**65,908**
Construction			66,020	**66,020**
Monitoring		34,133		**34,133**
Other		43,780		**43,780**
Capital Equipment		33,979		**33,979**
Total Forecast: Operating Cost-Balance	0	835,066	142,836	**977,902**
Projected Year-End Balance 12/31/2011	**289,755**	**0**	**0**	**289,755**

Implications of Recent Administrative Trends for the Management of the Watershed (2011 to 2016)	
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 per State Auditor recommendation. That decrease has in turn restricted the funds available to respond to disasters and emergencies such as the tornado damage of 2008.
Aging Monitoring Equipment	Monitoring equipment (rain gages and WL-40s) that were expected to last 4 to 5 years are now often in their 12 to 15th year of service. 2-3 of these devices per year have begun to fail

Expectations About Future 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 2011 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 State Auditor 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, discussion of an over-correction needs to be offset by a re-evaluation of overall responsibilities, needs, and priorities of the watershed district.
Increased failure of key monitoring equipment	Monitoring equipment (rain gages and WL-40s) that were expected to last 4 to 5 years are now often in their 12 to 15th year of service. Two to three of these devices per year have begun to fail.

Immediate Needs (2012 – 2013)	
Need	**Explanation**
Review of Economics and Financing of Watershed Operations	Future demands on water resource operations will require money. 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.
Replace monitoring equipment and other assets	Begin budgeting either for replacement of monitoring equipment or partial replacement annually

Intermediate Needs (2013 – 2016)	
Need	**Explanation**
Valuation of Groundwater Stock	The quantity and economic value of the groundwater supplies available to the District need to assessed and valued.

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 four activities:

1. Environmental Review which includes comments on DNR and Corps of Engineers permits
2. Permit Inspection and Enforcement
3. Permit Review
4. Permits
5. Final Inspections, Project Close Outs & Escrow Returns

Shenandoah Blvd looking north towards Hwy 242 reconstruction

Cardinal Ridge 2nd addition in Andover

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	2009	2010	2011	2012	2013
Number of Environmental Reviews	1	**2**	1	2	1
DNR Permits	1	**1**	1	1	1
EAWs	0	**1**	0	1	0

DEVELOPMENT REGULATION Permit Inspection & Enforcement

Description

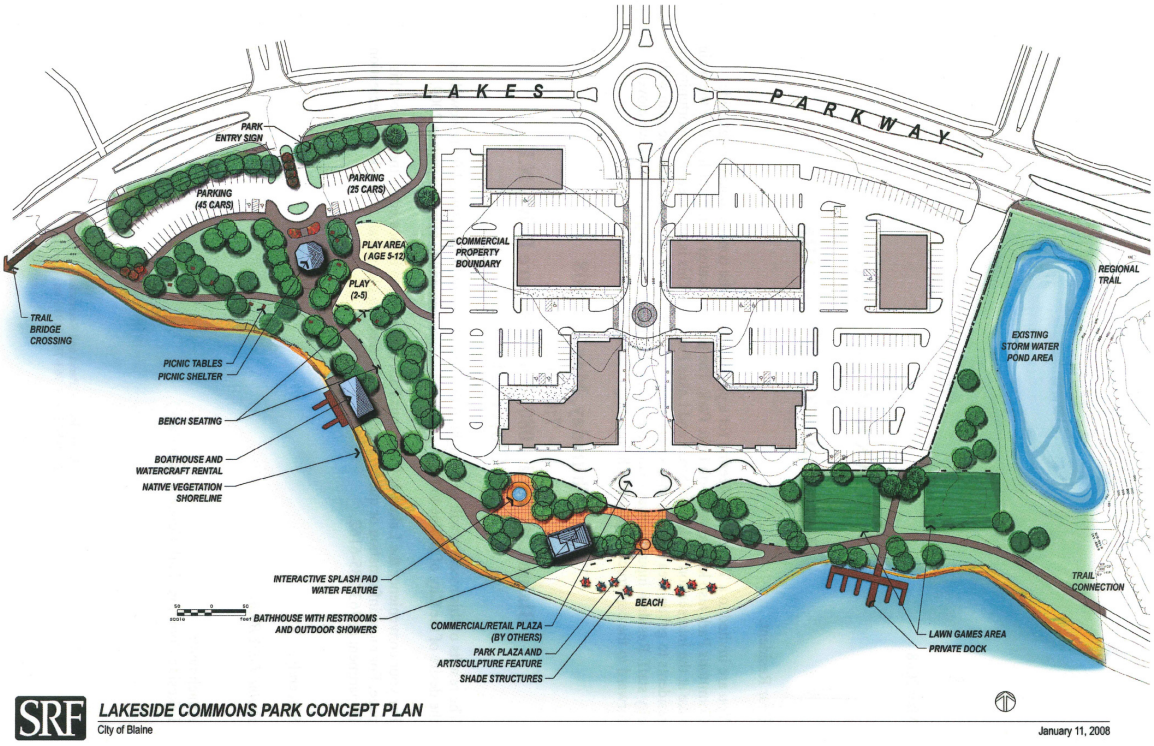
This activity ensures compliance with permit requirements and the goals, objectives and rules of the District. The activity is intended to:

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	2009	2010	2011	2012	2013
Number of Inspections	190	**167**	170	170	160

Enforcement Issues

Violation	2009	2010	2011	2012	2013
Failure to comply with permit or approved plan	2	**2**	2	2	2
Failure to maintain or repair BMPs or STPs	11	**12**	11	10	10
Failure to maintain site in Good condition	13	**12**	11	10	10
Failure to meet standards	4	**3**	3	3	3
Failure to use BMPs to stop erosion & sedimentation	11	**12**	11	10	10
False information	0	**0**	0	0	0
Illicit Connection	1	**2**	2	2	2
Illicit Discharge	0	**7**	10	10	10
Obstruction	0	**4**	3	3	3
Submittal of As Built	0	**1**	1	1	1
Wetland Drainage	0	**1**	0	1	0
Wetland Excavation	0	**1**	1	1	1
Wetland Fill	7	**4**	5	5	5
Work without a permit	0	**2**	2	2	2
Total	49	63	62	60	59



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	2009	2010	2011	2012	2013
Number of Pre-application meetings	17	**20**	20	20	20
Number of Permit Applications	111	**79**	75	75	75
Number of Permit Reviews by Board	44	**35**	30	30	30

DEVELOPMENT REGULATION Permits

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

Measure	2009	2010	2011	2012	2013
Number of Pre-Construction Meetings	2	**10**	10	10	10
Number of Best Management Practices	176	**130**	130	130	130
Certificates of No-Loss	3	**0**	1	0	1
WCA Exemptions	3	**1**	1	1	1
Variances	0	**0**	0	0	0
Permits	23	**27**	25	23	20
Permit Renewal/ Extension	8	**5**	5	4	3

DEVELOPMENT REGULATION Final Inspection & Escrow Returns

Description
This activity reviews completed development and other construction projects for compliance and adherence to the approved plans. The activity also includes a tabulation of District incurred costs for review, inspection and any site repair or stabilization that may have been needed prior to returning the balance of escrows held by the District.

Measure	2009	2010	2011	2012	2013
Final Inspections Conducted	33	115	100	75	75
Fees withheld by District	$4,937	$43,763	$40,000	$30,000	$30,000
Number of Projects closed out	33	115	100	75	75
Value of Escrow Returned	$84,316	$572,067	$125,000	$100,000	$100,000

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 has 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 enforcement and inspection 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. As the District moves more into the water quality era, more time will be involved in increasingly sophisticated water quality review

Immediate Needs (2012 – 2013)	
Need	**Explanation**
Amend rules to require 1.5" of infiltration from 1"	1.5 inches is the 95th percentile of storm recurrence within the watershed

Intermediate Needs (2013 – 2016)	
Need	**Explanation**

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. Routine Maintenance
2. Non-Routine Maintenance
3. Repair and Rehabilitation
4. Retrofit and Construction

Ditch 39

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	2009	2010	2011	2012	2013
Inspect 20 % of the system	18%	22%	19%	20%	21%
Miles Inspected	22	27.2	24.1	24.9	26.6

Facility	2009	2010	2011	2012	2013
Ditch	Miles Inspect	Miles Inspect	Miles Inspect	Miles Inspect	Miles Inspect
11				5.4	
17 (Pleasure Ck)	4.3				
20					3.0
23			1.9		
37	4.2				
39		3.3			
41		18.5			
44				14.7	
52			2.0		
54					5.1
57	12.2				
58					18.5
59			20.2		
60	5.6				
Lower Coon Creek		5.4			
Springbrook				4.8	
Glen Creek					
Stoneybrook					

Facility	2009	2010	2011	2012	2013
Structures					
Crooked Lake Outlet	Yes	Yes	Yes	Yes	Yes
Lake Andover Outlet	Yes	Yes	Yes	Yes	Yes
Ditch 58 Structures (X5)	Yes (5)	Yes (5)	Yes (5)	Yes (5)	Yes (5)
Follow up Inspections					
Northdale Pond Retrofit		Constructed	X	X	X
Magnolia Pond Retrofit		Constructed	X	X	X
Upper Woodcrest Creek Channel Rehabilitation		Constructed	X	X	X
Crooked Lake Rain Gardens		Constructed	X	X	X
Columbus Storm Water Ponds (X3)			X		X
Woodcrest Pond			X	X	X

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BNRR Riprap Obstruction May 2010

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.

2010 Issues

Measures	2009	2010	2010 Actual	2011	2012	2013
Bank Stabilization	7	**5**	1	5	5	5
Beaver	8	**7**	11	10	10	10
Compliance	27	**25**	9	25	25	25
Emergency Work	0	**0**	0	1	1	1
Illicit Discharge	1	**2**	3	3	3	4
Maintenance	5	**5**	8	5	5	5
Easement	0	**1**	1	1	1	1
Erosion	6	**9**	4	9	9	9
Flooding	6	**5**	2	3	3	3
Obstruction Trees	29	**30**	23	30	30	30
Other						
Water availability	4	**5**	4	5	5	5
Water quality	5	**5**	4	5	5	5
Total Issues	**97**	**97**	**81**	**99**	**99**	**99**

Woodcrest Creek Rehabilitation Fall 2010

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	2009	2010	2011	2012	2013
Number of	3	**3**	2	2	2
New Facilities				Xeon Pond Construction	
Retrofitted Facilities		**Northdale Pond Retrofit** **Magnolia Pond Retrofit**	Woodcrest Park Pond		
Bank Stabilization projects	Creekside Trailer Pk Egret Blvd x Creekside Trailer Pk Crown Point	**Woodcrest Creek Rehabilitation**	Betts Bank Stabilization		

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	2009	2010	2011	2012	2012
Number of Projects	2	**2**	2	2	2
Projects	1. Ditch 60: Veg Remove 2. Timberline Structure	1. Ditch 39: Culvert 2. Ditch 60: Veg Remove	1. Lower Coon Creek 2. Ditch 41 3. Timberline Spillway 4. Prairie Creek Spillway	1. Ditch 20 2. Ditch 54 3. Ditch 57	1. Ditch 20 2. Ditch 54 3. Ditch 57

Prairie Creek Spillway 2010

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	2009	2010	2011	2012	2012
Beaver	10	**10**	15	10	10
Obstructions	5	**5**	6	5	5
Trees	35	**40**	35	40	40
Projects	8	**8**	7	9	9
Project Names	1) Lower Coon Creek x Old Coon Rapids City Hall 2) D-41:118th & University 3) D-41 at Foley Blvd	Timberline spillway Prairie creek spillway	Eherlinson tree removal		

	4) Lower Coon Creek So CR Blvd 5) D-11 Tippecanoe St tree removal 6) Lower Coon Creek in Coon Hollow 7) D-41 Happy Acre Park 8) Sand Creek x BNRR dam				

Crooked Lake Rain Garden Inlet protection box install , July 2010

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	2009	2010	2011	2012	2012
Number of Projects	3	3	3	3	3
Project Names	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 (2012 – 2013)	
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.

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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

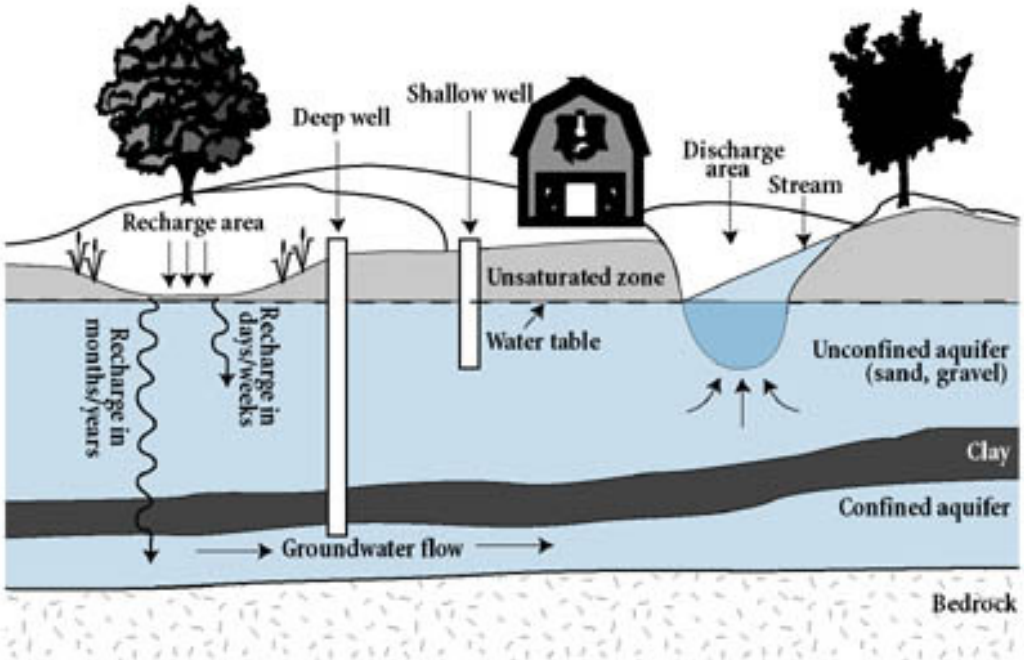
Comprehensive Plan presentation to Coon Rapids Sustainability Commission August 2010

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	2009	2010	2011	2012	2013
Annual Report & Plan Approved	Yes	Yes	Yes	Yes	Yes
MPCA Annual Report Approved	Yes	Yes	Yes	Yes	Yes



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	2009	2010	2011	2012	2013
Annual Report	3/23/09	4/12/10	3/21/11	3/23/12	3/25/13
Budget Calendar	4/13/09	4/12/10	4/11/11	4/13/12	4/8/13
Review of Financial Status	4/27/09	4/26/10	4/25/11	4/27/12	4/22/13
Review Program Goals &Commitments	4/27/09	4/26/10	4/25/11	4/27/12	4/22/13
Establish Budget Guidelines and Assumptions	6/22/09	6/14/10	6/13/11	6/11/12	6/10/13
District Tour	7/20/09	7/19/10	7/18/11	7/16/12	7/15/13
Project & Program Initiatives	7/27/09	7/26/10	7/25/11	7/23/12	7/22/13
Budget Review and Deliberation	8/10/09	8/9/10	8/8/11	8/13/12	8/12/13
Advisory Ctty Review and Comment	8/11/09	8/10/10	8/9/11	8/14/12	8/13/13
Public Hearing & Budget Adoption	9/14/09	9/13/10	9/12/11	9/10/12	9/9/13
Levy Certification	12/14/09	12/13/10	12/12/11	12/10/12	12/9/13

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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	2009	2010	2011	2012	2013
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	TP-40 Input, Precipitation Analysis	Evapo-transpiration Study	Soil moisture study	Pleasure Creek Springbrook Creek	
Ditches & Watercourses	Electronic Ditch Profiles Ditch 58 Ditch 60	Electronic Ditch Profiles Ditch 39 Ditch 59	Electronic Ditch Profiles Ditch 39 Ditch 41 Lower Coon Creek	Electronic Ditch Profiles Ditch 23 Ditch 52 Ditch 59	Electronic Ditch Profiles Ditch 11 Ditch 17 Ditch 44 Springbrook
Floodplains	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	Geologic Atlas

Measures	2009	2010	2011	2012	2013
Retrofit Study	Sand Creek	Woodcrest Creek	Lower Coon Creek	Pleasure Creek	Springbrook Creek
Stormwater	National Sports Center The Lakes	The Lakes	Coon Rapids High School	Anoka-Hennepin School District lands	Anoka-Hennepin School District lands
Subwatershed Plans	The Lakes	Ditch 39 The Lakes	Ditch 41	Lower Coon Creek	Ditch 23
Water Quality	Crooked Lake The Lakes	The Lakes National Sports Center Coon Rapids High School	Coon Rapids High School Anoka-Hennepin School District lands Lower Coon Creek	Anoka-Hennepin School District lands Pleasure Creek	Anoka-Hennepin School District lands Springbrook
Wetlands	MR 8420 Update & Training	Functional Capacity Study			
Lakes	Crooked Lake Wrap up The Lakes	The Lakes	Ham Lake		
Wildlife		Tubercled rein- orchid			
Plan Amendments					
Boundary	Lower Rum River WMO, Andover	Lower Rum WMO, Coon Rapids	Six Cities WMO in Blaine, Coon Rapids & Fridley		
Rule	Adoption	Review	Amend	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				Update Anti-degradation plan	

Measures	2009	2010	2011	2012	2013
Plan					
Impaired Waters Study/TMDL		X	X	X	X
Minimum Impact Design Standards (MIDS)	Participate in workgroup	X	Rule Development	Rule Development	
Tiered Aquatic Life Uses (TALU)	Participate in workgroup	X	Rule Development	Rule Development	
Watershed Approach	Participate in workgroup	X	X	X	X
Watershed Subcommittee - Stormwater Steering Committee	X	X	X	X	X

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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	2009	2010	2011	2012	2013
Number of Local Plans reviewed	8	0	7	7	0
Andover	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	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	Participate in CCWD Comp Plan Development	Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan	
Coon Rapids	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	
Fridley			Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan	

Ham Lake	Local Water Management Plan/SWPPP	Participate in CCWD Comp Plan Development	Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan	
Spring Lake Park			Prepare new SWPPP & Local Water Plan	Prepare new SWPPP & Local Water Plan	

Plan	Andover	Blaine	Columbus	Coon Rapids	Fridley	Ham Lake	Spring Lake Park
Local Water Management	2005	2009	2009	2003		2009	2009
Stormwater Management	2009	2009	2009	2003		2009	2009
SWPPP	2006	2006		2006		2006	2008
Nondegradation Report	2007	2007	Not Required	2007	Not Required	Not Required	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	2009	2010	2011	2012	2013
XP-SWMM			Update		
P8		Update			Update
Water Budget	Update/Refine			Update	

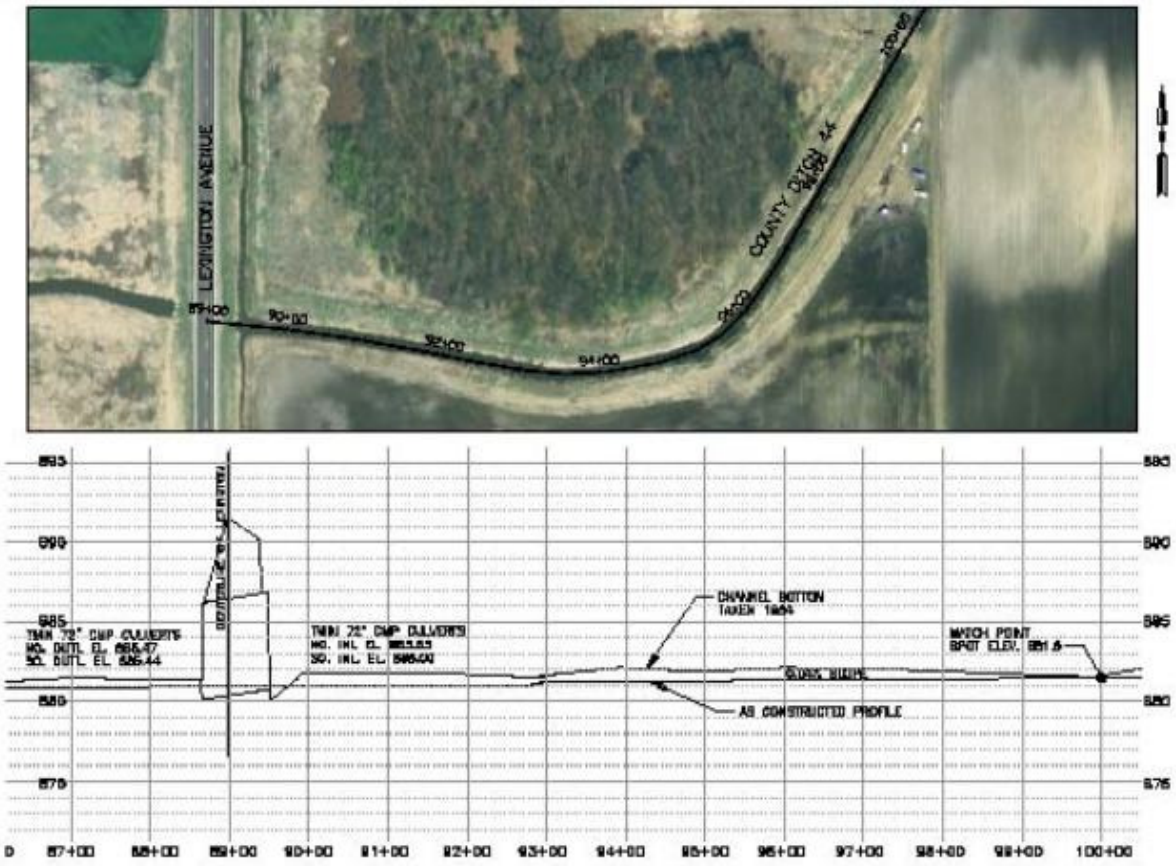
PLANNING, PROGRAMMING, & BUDGETING Policy and Procedures

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	2009	2010	2011	2012	2013
Policy & Procedure Manual	2	2	1	1	1
Policies	Records Retention and Disposal Enforcement Manual	Operations & Maintenance Manual Guidance for removal of obstructions during periods of low flow	By Laws Operations & Maintenance Manual	Contracting By Laws Operations & Maintenance Manual	Accounting Manual Update Contracting By Laws

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.

	2009	2010	2011	2012	2013
Ditch	Ditch 11 Ditch 44	Ditch 58 Ditch 60	Ditch 39 Ditch 41 Lower Coon Creek	Ditch 23 Ditch 52 Ditch 59	Ditch 17 Ditch 20

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 (2012 – 2013)	
Need	**Explanation**
Complete Hydrologic Records	Continue to monitor

Intermediate Needs (2013 – 2016)	
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.

Stormwater U Workshop-Turf BMPs for professionals, Blaine December 2010

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Stormdrain Stenciling, Northwest Passage Charter High School September 2010

Description

Major needs of the District include 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 makes presentations each year to civic & governmental organizations. These presentations focus on water resources, the establishment of the District, its purposes and policies, and issues facing the watershed. The District is used by the community as a credible reference regarding water resources information.

District education activities involve:

Measures	2009	2010	2011	2012	2013
Number of Conferences	13	15	15	16	16
Total public education efforts	183	889	891	900	950
Number of presentations	15	26	28	30	30
Number of	22	34	35	35	38

Measures	2009	2010	2011	2012	2013
materials/events					
Education Grants	2	2	3	4	4
	Metro Children's Water Festival Blaine Native Plant Guide	Sorteberg Waterfest Enviroscape Model			

NPDES presentation to Andover Public Works & Engineering December 2010

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 sense when that participation will be most effective, individuals must first know the issues and the decisions needed to be made.

Means

Measures	2009	2010	2011	2012	2013
Number of articles	18	25	20	18	15
Number of pre-application conferences	17	21	16	17	17
Number of presentations	15	26	28	30	30
Web Site Visits	28,500	46,400	50,000	50,000	55,000

Comprehensive Plan Advisory Group, Andover July 2010

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	2009	2010	2011	2012	2013
Average number on agenda distribution list	50	50	55	55	55
Completed SWPPP Review meeting	Yes	Yes	Yes	Yes	Yes
Number of CAMP participants	1	0	0	0	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	15	12	6	6	6

Measures	2009	2010	2011	2012	2013
Number of open mike presentations	1	0	1	0	0
Number of Board Meeting per year	21	22	18	18	18

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	2009	2010	2011	2012	2013
Anoka Conservation District	Jim Lindahl	Jim Lindahl	Jim Lindahl	Jim Lindahl	Jim Lindahl
Anoka County	Robyn West	Robyn West	Carol LeDoux		
Sporting/Environ Organization	Vacant	Vacant	Vacant	Vacant	Vacant
Farm Organization	Vacant	Vacant	Vacant	Vacant	Vacant
Andover	Vacant	Vacant	Vacant	Vacant	Vacant
Blaine	Vacant	Vacant	Vacant	Vacant	Vacant
Columbus	Vacant	Vacant	Vacant	Vacant	Vacant
Coon Rapids	Vacant	Vacant	Vacant	Vacant	Vacant
Ham Lake	Vacant	Vacant	Vacant	Vacant	Vacant

Technical Advisory Group **Anti-Degradation Modeling workshop**

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	2009	2010	2011	2012	2013
Number of Technical Advisory Committee meetings	2	6	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 retires	Doug Vierzba successor
Ham Lake	Tom Collins	Tom Collins	Tom Collins	Tom Collins	Tom Collins

Wetland Technical Advisory Group

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	2009	2010	2011	2012	2013
Number of Technical Evaluation Panel meetings	34	34	30	33	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	Tim Fell retires, Marie Kopka fills in	Tim Fell Successor	Tim Fell Successor
Andover	Todd Haas	Todd Haas	Todd Haas	Todd Haas	Todd Haas
Blaine	Jim Hafner	Jim Hafner	Jim Hafner	Jim Hafner	Jim Hafner
Columbus					

Organization	2009	2010	2011	2012	2013
Coon Rapids	Dave Full	Dave Full	Dave Full	Dave Full retires	Dave Full successor
Ham Lake	Tom Collins	Tom Collins	Tom Collins	Tom Collins	Tom Collins

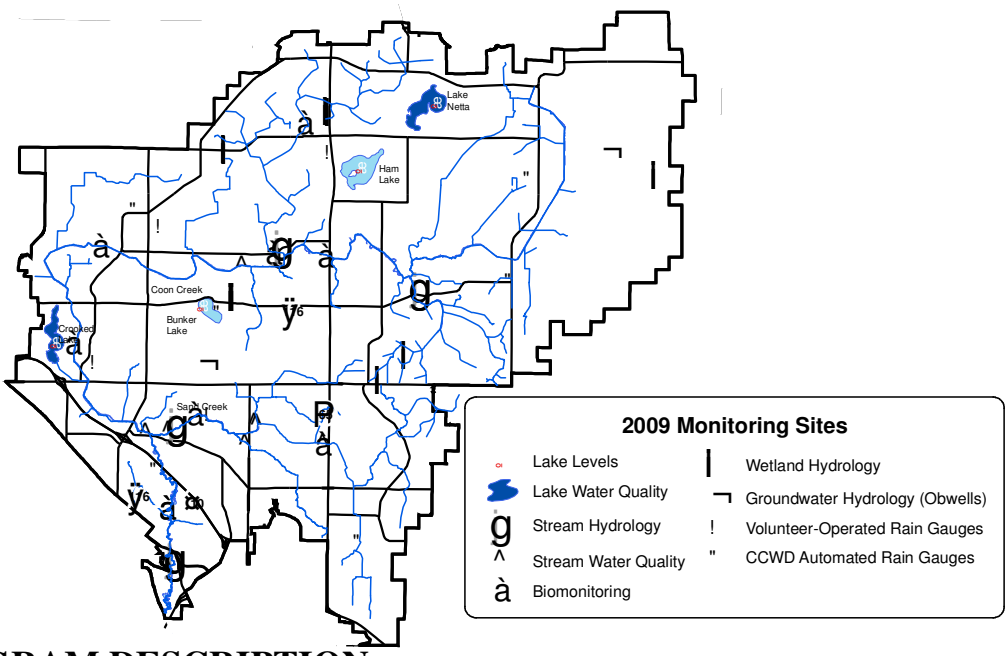
Implications of Public & Governmental Relations Trends for the Management of the Watershed (2011 - 2020)	
Trend	**Implications**
Measurement of public education and involvement in reducing: 1. water quality pollution 2. water quantity impacts	More time will be needed to measure implementation of SWPPP goals for the 2011 NPDES permit. Initially, time will be needed to determine the most cost-effective protocol for CCWD; metrics methodology guidance is, at best, limited. Training on survey metrics was started in 2010, and research will continue in 2011.
Increased number of Trainings	As stormwater maintenance changes and costs increase, customized trainings may need to be annually funded.
Increasing reliance on the internet as an information and outreach outlet for CCWD	Anoka County is bringing fiber optic broadband to the whole county starting 2012. According to Martha Weaver, Anoka County Public Information Manager, a county survey show that 81% of county residents had access to the internet in 2009. Interactive Web tools for training, public engagement, and education will be expected by the public. Examples are webmapping, webinars, multimedia, and social media.

Expectations about the future for Public & Governmental Relations in the watershed	
Expectations	**Explanation**
Increased number of Trainings	As stormwater maintenance changes, the District could play a larger role in cost-sharing and partnering on training workshops and webinars.
Source media transition	Methods of information dissemination will continue to evolve from hardcopy newspapers to digital as primary news sources. As the Internet becomes more accessible (faster and more available), there may be greater expectations for government to quickly deliver information and services through the Web.
Mobile education	As mobile phones are increasingly used for information gathering, more information delivery will likely need to be mobile–enhanced. Videos could be used for in-the-field or real-time trainings or as reference via mobile smartphones. One example: construction BMPs such as proper erosion control device installation or maintenance.

Immediate Needs (2012 – 2013)	
Need	**Explanation**
Continue producing videos: focus on Public Service Announcements (PSAs), expanding to Features illustrating complex issues.	With the popularity increasing for short videos for broadcast on Web, local community access television, and at outreach events, there's more opportunity also available for illustrating complex concepts, issues, and their application in District activities. Collaborating with three local community-access cable stations has already resulted in 5 PSAs, of which four were produced internally at CCWD.
Develop methodologies to assess public knowledge, awareness, attitudes within varying demographic populations	The new NPDES permit will focus on implementation of SWPPP goals. Measurement of public engagement will be expected though methodology guidance is, at best, limited. Training on survey techniques was started in 2010; methodologies that are cost-effective are needed.
Keep pace with internet interface technology	Develop graphical interfaces for illustrating hydrology concepts to communicate the dynamic forces that affect the water resources and needs of District constituents. Research & determine most effective methods of outreach and education via Web interface. Ex: social media, Web2.0- web applications that facilitate interactive design, site design that flows easily between different screen sizes.

Intermediate Needs (2013 – 2016)	
Need	**Explanation**
Scientific graphics/animation production	Contemporary communications relies heavily on graphic-oriented methods to convey information. Plus, with the expansion of the District boundary, an increased presence on the ground, in local media, and especially on the Web will be needed to foster water quality & quantity BMP education & training efforts. Help with graphics production, for example the animation of the water cycle for the District Website, will be needed.

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.

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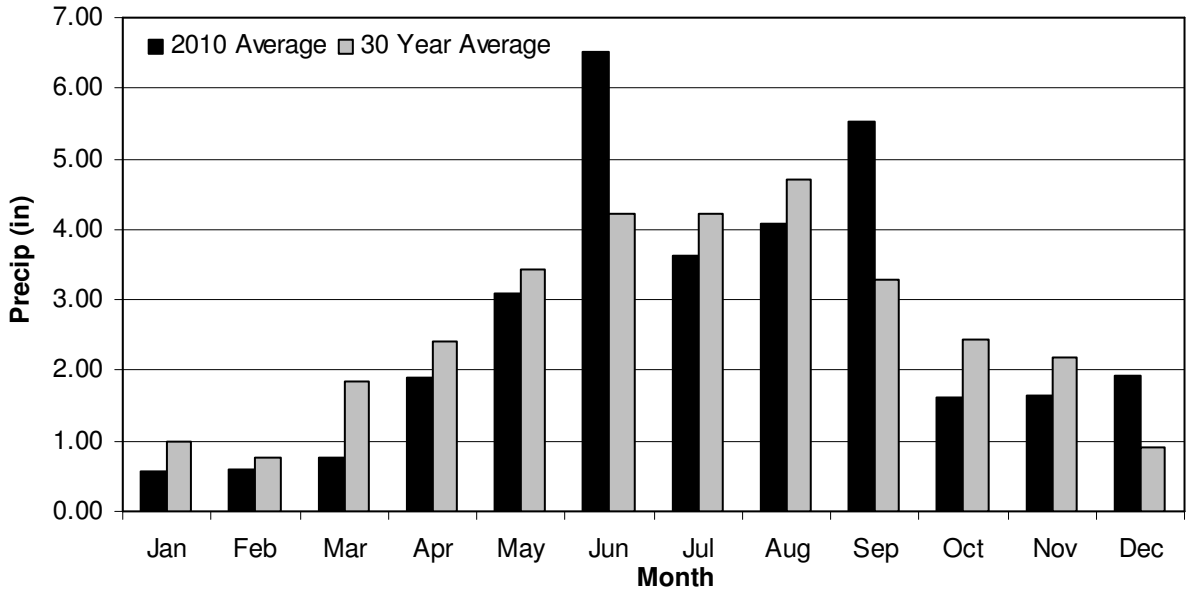


Description

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.

Coon Creek Watershed 2010 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				2.17			3.35	4.15	5.64	1.48			16.79	13.14
Blaine Public Works	Blaine							2.15			1.73			3.88	2.15
Coon Rapids City Hall	Coon Rapids				1.72	2.74	5.36				1.40			11.22	8.10
Anoka Cons. District office	Ham Lake				2.14	3.60	6.81	3.81	4.93	6.36				27.65	25.51
Hoffman Sod Farm	Ham Lake				1.79	3.11	6.10				1.72			12.72	9.21
Northern Nat. Gas substation	Ham Lake				1.53	2.69	6.14	4.00	3.85	4.95	1.58			24.74	21.63
Cylinder rain gauges (read daily)															
N. Myhre	Andover	0.56	0.59	0.76	2.26	3.16	7.97	4.28	4.39	6.19	1.59	1.64	1.93	35.32	25.99
S. Scherger	Coon Rapids				1.55	3.66			3.94	4.63	1.79			15.57	12.23
S. Solie	Coon Rapids				2.08	2.61	6.70	4.10	3.15	5.31				23.95	21.87
2010 Average	County-wide	0.56	0.59	0.76	1.91	3.08	6.51	3.62	4.07	5.51	1.61	1.64	1.93	31.79	22.79
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

Measures	2009	2010	2011	2012	2013
Number of Data Logging Gages	6	6	**6**	6	6
Andover City Hall, Andover	*	*	*	*	*
Anoka Conservation District, Ham Lake	*	*	*	*	*
Blaine Public Works, Blaine	*	*	*	*	*
Coon Rapids City Hall, Coon Rapids	*	*	*	*	*
Hoffman Sod Farm, Ham Lake	*	*	*	*	*
Northern Natural Gas Substation, Ham Lake	*	*	*	*	*
Costs					
Monitoring Unit	$525.00	$575.00	**$545.00**	$555.90	$567.02
Monitoring Budget	$3,150.00	$3,450.00	**$3,270.00**	$3,335.40	$3,402.11
Unit Costs Chng – Prev Yr	0.0%	9.5%	**-5.2%**	2%	2%
Analysis Budget	$850.00	$850.00	**$850.00**	$867.00	$884.34
Analytical Cost chng – Prev Yr	0%	0%	**0%**	2%	2%

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**	**2010**	**5 Year Avg.**	**10 Year Avg.**	**43 Year Avg.**
Upper Watershed					-8.5	-8.8	-9.1
East Bethel	2025	-9.4	-7.2	-7.5			
Carlos Avery	2026		-20.4	-18.3			
Lower Watershed							
Coon Rapids	2016		-34.7	-32.2			
Soderville	2023	-10.3	-12.5		-10.2		-9.8

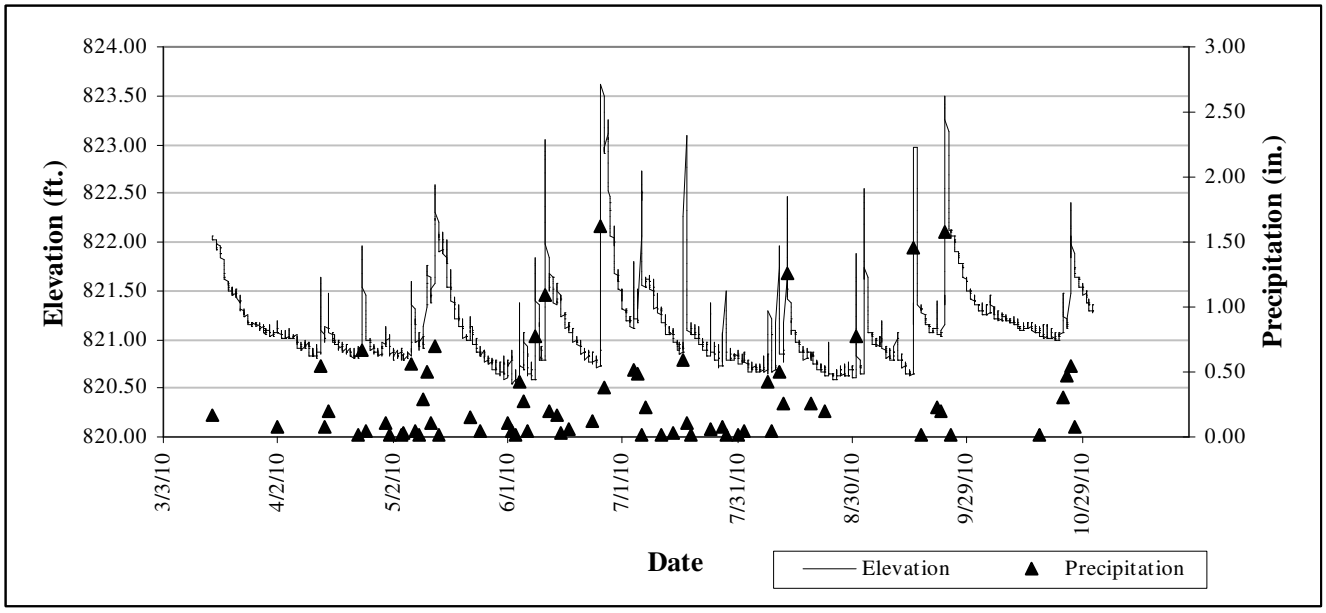
Coon Creek Hydrology (continued)

Summary of All Monitored Years

Percentiles	2005	2006	2007	2008	2009	2010	All Years Thru 2010
Min	820.04	820.26	820.33	820.43	820.03	820.54	820.03
2.5%	820.06	820.42	820.40	820.52	820.12	820.64	820.16
10.0%	820.19	820.53	820.53	820.57	820.20	820.73	820.42
25.0%	820.57	820.78	820.73	820.63	820.35	820.85	820.65
Median (50%)	820.91	821.35	821.25	820.88	820.61	821.05	820.98
75.0%	821.26	821.78	821.88	821.78	820.93	821.32	820.98
90.0%	821.77	822.27	822.63	822.26	821.31	821.68	822.10
97.5%	822.92	822.76	823.21	822.79	822.05	822.33	822.83
Max	823.26	824.18	824.47	823.96	824.11	823.62	824.47

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

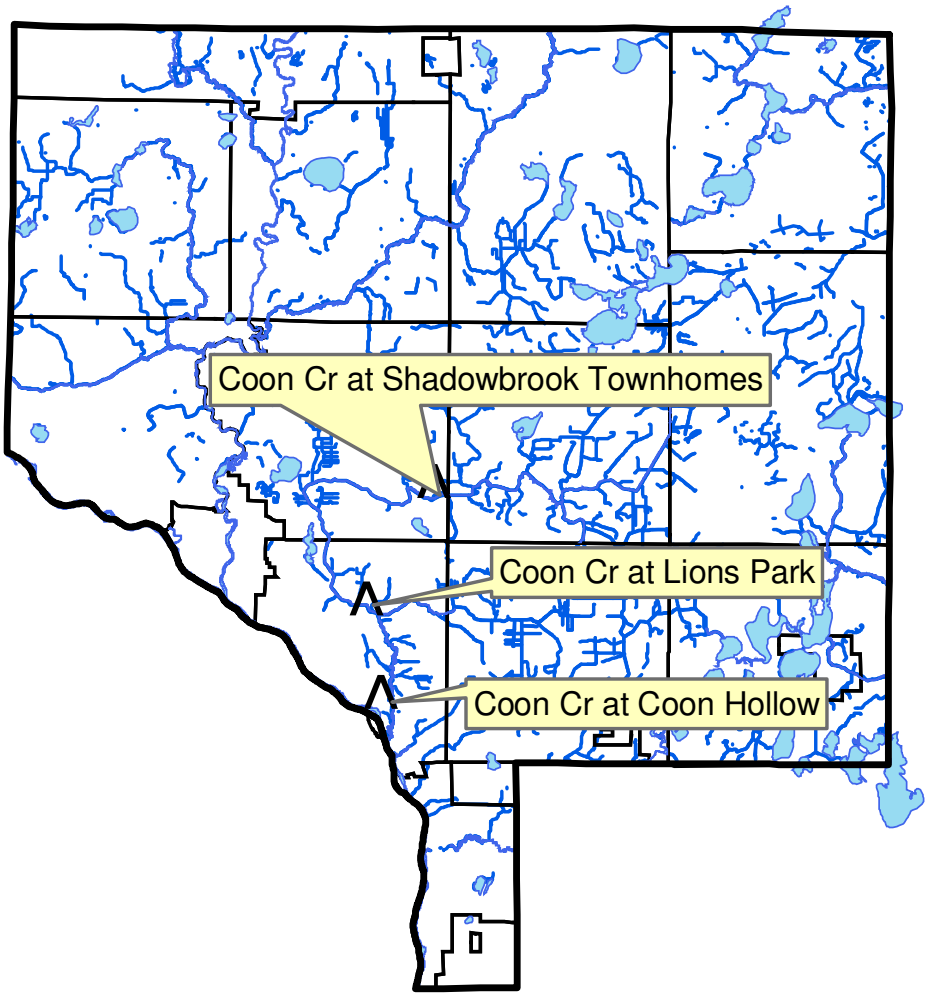
2010 HYDROGRAPH



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	2009	2010	2011	2012	2013
Coon Creek					
Coon Creek at Vale, Coon Rapids	X	X	**X**	X	X
Coon Creek at Vale, Coon Rapids Rating Curve		X			
Deer Creek					
Ditch 59-4 at Andover Blvd, Ham Lake	X	X	**X**	X	X
Prairie Creek					
Ditch 58 at Bunker Lake Blvd	X	X	**X**	X	X
Sand Creek					
Sand Creek at Ditch 39 Confluence, Coon Rapids		X	**X**	X	X
Sand Creek at Xeon St, Coon Rapids	X	X	**X**	X	X
Pleasure Creek				X	X
Springbrook Creek				X	X
Numb of Sites	4	5	**5**	7	7
Unit Cost	$ 525.00	$ 535.00	**$ 545.00**	$ 555.90	$ 567.02
Budget Cost	$ 2,100.00	$ 2,675.00	**$ 2,725.00**	$ 3,891.30	$ 3,969.13
Change in Unit Costs	0%	1.9%	**1.9%**	2.0%	2.0%
Change in Total Costs	0%	27.4%	**1.9%**	42.8%	2.0%

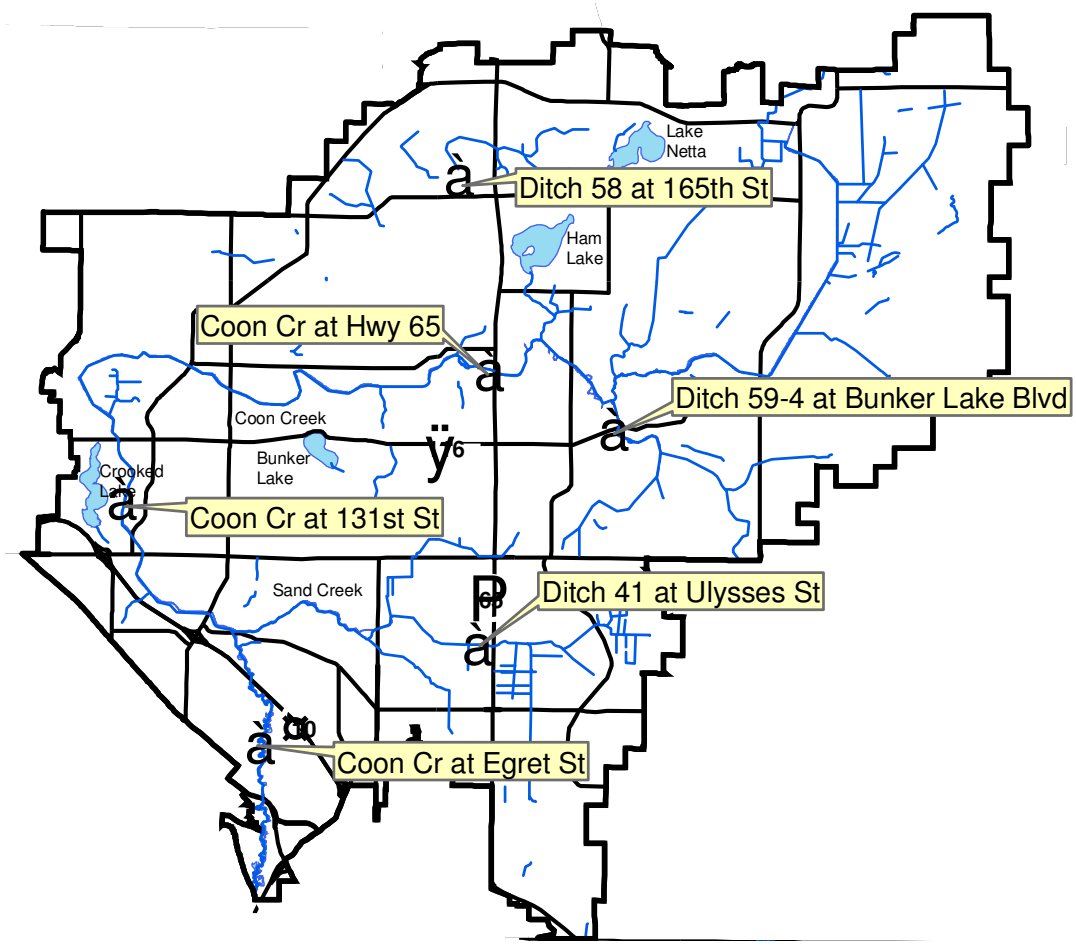


Description

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	2007	2008	2009	2010
TP (mg/L)	.130	0.125	0.134	0.107	0.136
TSS (mg/L)	>13.7	21	34	73	20.
CL (mg/L)	≥ 230	58.3	58.8	64.1	47.8
Turbidity (FRNU)	>25	16	36	66	26.3

Locations	2009	2010	2011	2012	2013
Coon Creek					
Shadowbrook Townhomes, Andover	**X**	**X**	**X**	**X**	**X**
131ST Ave, Andover		**X**	**X**	**X**	**X**
Lions Park, Coon Rapids	**X**	**X**	**X**	**X**	**X**
Vale St., Coon Rapids	**X**	**X**	**X**	**X**	**X**
Springbrook Creek					
River Road			**X**	**X**	**X**
Sand Creek					
Radisson Rd (41-4), Blaine		**X**	**X**	**X**	**X**
Highway 65, Blaine	**X**	**X**	**X**	**X**	**X**
Happy Acres Park, Blaine	**X**				
Ditch 39, Blaine		**X**	**X**	**X**	**X**
Xeon Street, Coon Rapids	**X**	**X**	**X**	**X**	**X**
Pleasure Creek					
86th Ave.			**X**	**X**	**X**
Ditch 39					
University Ave, Coon Rapids	**X**				
Ditch 60					
Happy Acres Park, Blaine	**X**				
Total Number	**8**	**8**	**10**	**11**	**12**
Unit Cost	$ 945.00	$ 990.00	**$ 1,345.00**	$ 1,371.90	$ 1,399.34
Budget Cost	$ 7,560.00	$ 7,920.00	**$ 13,450.00**	$ 15,090.90	$ 16,792.06
Change in Unit Costs	3%	4.8%	**35.9%**	2.0%	2.0%
Change in Total Costs	65%	4.8%	**69.8%**	12.2%	11.3%



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.

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.

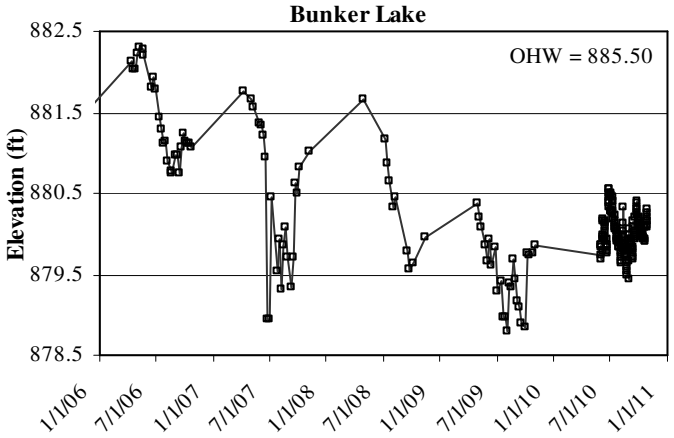
- The relationships between overall MSHA score and the three biotic indices suggested that only FBI was correlated with overall MSHA score.

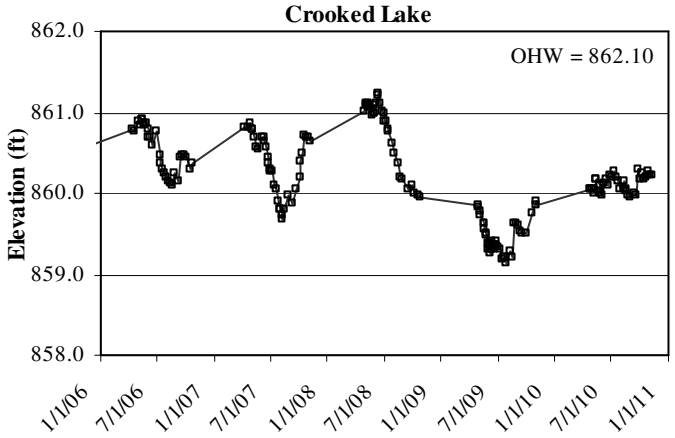
- In 2008 and 2009 poorer invertebrate communities were found than by the MPCA in 2000 at the two Coon Creek sites designated as impaired (Highway 65 and Egret St.). The Highway 65 site (maintained) had poorer biotic indices of stream health than the Egret Street site (not maintained).

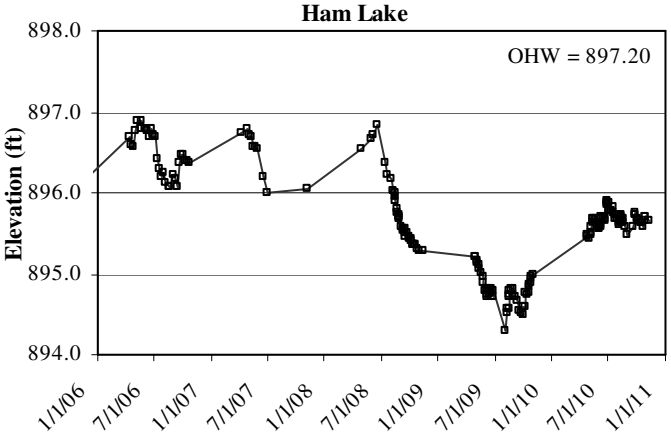
- There is notable variability in biological survey results among samplings. This has been observed by both professional and student long-term biomonitoring.

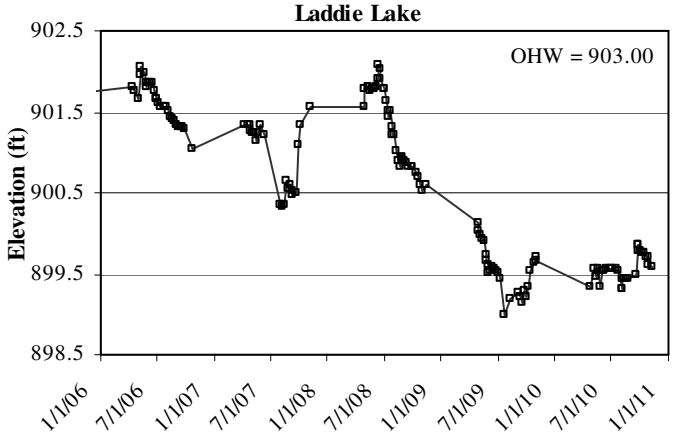
Locations	Status	2009	2010	2011	2012	2013
Coon Creek						
131ST St, Andover	**Maint**	X	MPCA	**X**	X	X
TH 65, Ham Lake	**Maint**	X	MPCA	**X**	X	X
Egret Blvd, Coon Rapids	**Unmaint**	X	X	**X**	X	X
Sand Creek						
(D-41) at Olive, Blaine	**Unmaint**		MPCA	**X**	X	X
D-41) at Ulysses, Blaine	**Maint**	X	X	**X**	X	X
Ditch 59-4						
At Bunker, Ham Lake	**Maint Last monitored 2008**					
Ditch 58						
At 165th, Ham Lake	**Unmaint**	X				
At Andover Bld, Ham Lake	**Unmaint**		MPCA	**X**	X	X
Total Number		6	2	**6**	6	6
Unit Cost		$1,250.00	$1,275.00	**$1,275.00**	$1,300.50	$1,326.51
Budget Cost		$ 7,500.00	$ 2,550.00	**$ 7,650.00**	$ 7,803.00	$ 7,959.06
Change in Unit Costs		0%	2.0%	**0.0%**	2.0%	2.0%
Change in Total Costs		500%	-49.0%	**100.0%**	2.0%	2.0%

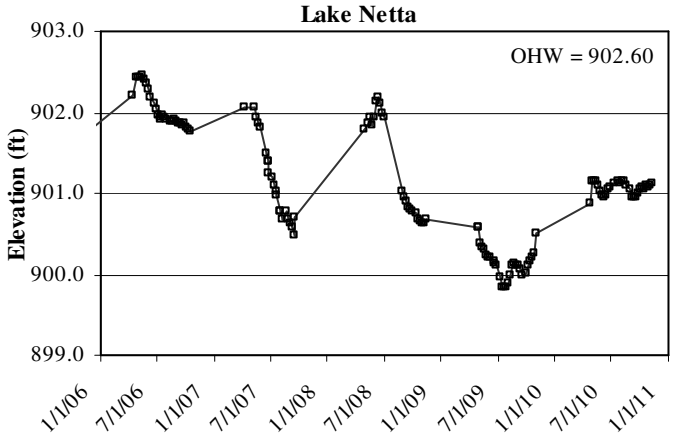
Lake Levels 2005-2009











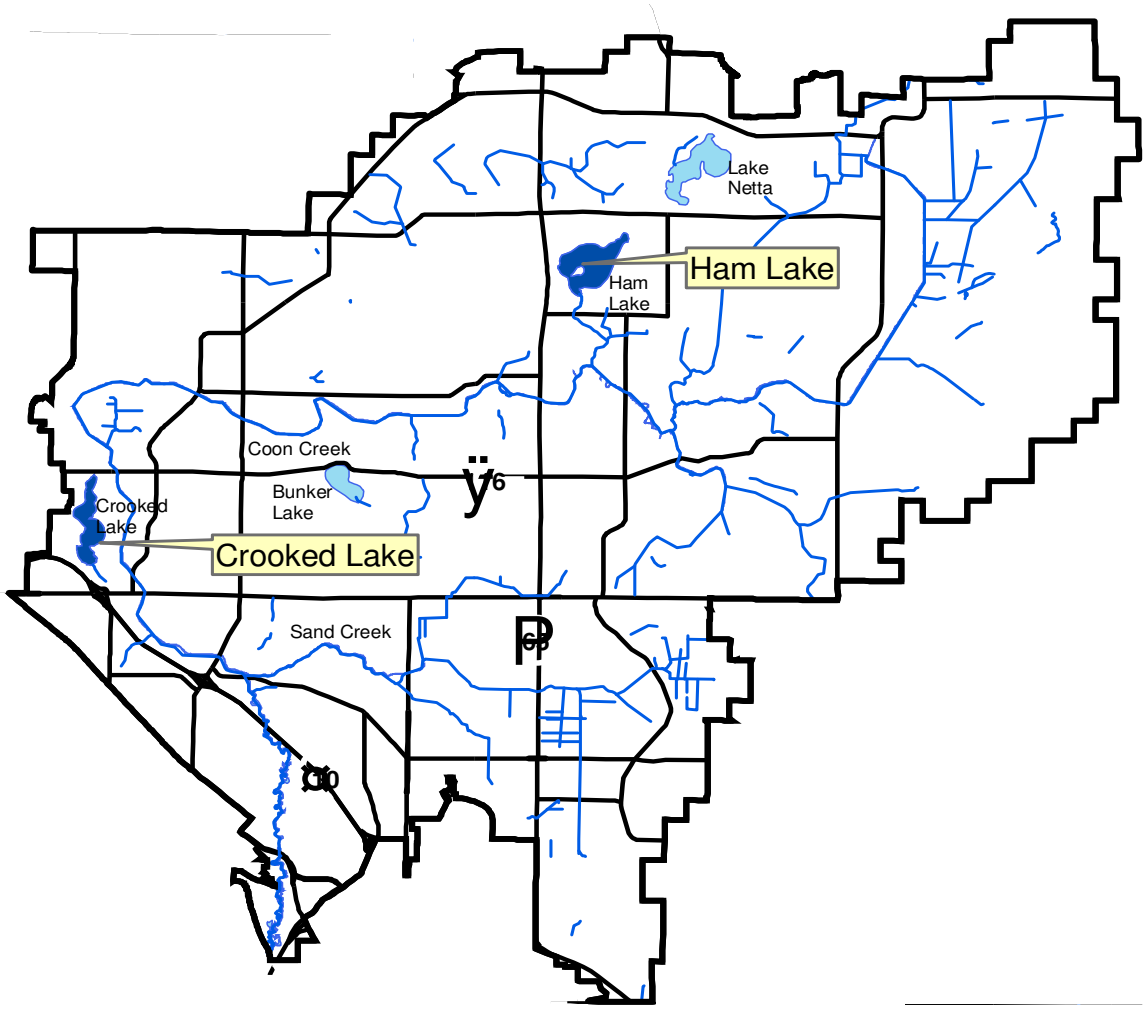
Description

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	Measure	2006	2007	2008	2009	2010
Bunker	Max	882.3	881.8	881.7	880.4	880.5
	Average	881.5	880.4	880.4	879.0	880.0
	Min	880.8	879.0	879.6	878.8	879.4
Crooked	Max	860.9	861.2	861.2	859.9	860.3
	Average	860.5	860.4	860.8	859.5	860.1
	Min	860.1	860.0	860.0	859.1	860.0
Ham	Max	896.9	896.8	896.8	895.2	895.9
	Average	896.5	896.5	895.5	894.8	895.7
	Min	896.1	896.0	895.3	894.3	892.4
Laddie	Max	902.1	901.6	902.1	900.1	899.9
	Average	901.6	901.0	901.3	899.6	899.6
	Min	901.0	900.3	900.5	899.0	899.3
Netta	Max	902.5	902.1	902.2	900.6	901.2
	Average	902.1	901.2	901.3	900.2	901.1
	Min	901.8	900.5	900.6	899.8	900.9

Lake	2009	2010	2011	2012	2013
Bunker	X	X			
Crooked	X	X	X	X	X
Ham	X	X	X	X	X
Laddie				X	X
Netta	X	X	X	X	X
Total Number	4	4	3	4	4
Unit Cost	$ 120.00	$ 150.00	$ 160.00	$ 163.20	$ 166.46
Budget Cost	$ 480.00	$ 600.00	$ 480.00	$ 652.80	$ 665.86
Change in Unit Costs	9%	25.0%	6.7%	2.0%	2.0%
Change in Total Costs	9%	25.0%	-20.0%	36.0%	2.0%



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.

Ham Lake Summertime Historic Mean

Agency	MC	MC	MC	MC	MC	ACD	ACD	ACD	ACD	ACD	ACD	ACD	ACD	ACD
Year	1984	1993	1994	1996	1997	1998	2000	2001	2002	2004	2005	2007	2008	2010
TP (µg/L)	34.0	19.0	36.0	16.0	23.0	24.0	32.6	39.1	29.1	45.2	45.0	24.0	20.5	27.0
Cl-a (µg/L)	11.8	6.2	9.1	8.3	5.9	11.3	13.1	12.7	11.5	6.3	8.4	11.4	6.0	6.7
Secchi (m)	1.84	2.76	2.35	2.27	3.14	2.35	2.04	1.81	2.1	2.5	2.2	2.3	2.7	2.7
Secchi (ft)	6.0	9.1	7.7	7.4	10.3	7.7	6.7	5.9	6.7	8.2	7.4	7.7	9.0	8.9

Carlson's Tropic State Indices

Year	1984	1993	1994	1996	1997	1998	2000	2001	2002	2004	2005	2007	2008	2010
TSIP	55	47	56	44	49	50	54	57	53	59	59	50	48	52
TSIC	55	49	52	51	48	54	56	56	55	49	52	55	48	49
TSIS	51	45	48	48	43	48	50	51	50	47	49	48	45	46
TSI	54	47	52	48	47	51	53	55	52	52	53	51	47	49

Ham Lake Water Quality Report Card

Year	1984	1993	1994	1996	1997	1998	2000	2001	2002	2004	2005	2007	2008	2010
TP (µg/L)	C	A	C	A	A	B	C	C	B	C	C	B	A	B
Cl-a (µg/L)	B	A	A	A	A	B	B	B	B	A	A	B	A	A
Secchi (m)	C	B	B	B	A	B	C	C	C	B	B	B	B	B
Overall	**C**	**A**	**B**	**A**	**A**	**B**	**C**	**C**	**B**	**B**	**B**	**B**	**A**	**B**

Lake Netta Historical Summertime Mean Values

Agency	CLMP	CLMP	CLMP	CLMP	CLMP	ACD	ACD	ACD	ACD	ACD	ACD	ACD	ACD	ACD	ACD
Year	1975	1990	1991	1992	1993	1997	1998	1999	2001	2003	2004	2006	2007	2009	2010
TP (µg/L)						21.8	56.9	22.2	30.7	20.8	23.8	28.0	23.5	32.2	23.0
Cl-a (µg/L)						6.7	16.6	3.8	7.7	6.2	5.7	5.5	5.6	8.9	4.5
Secchi (m)	2.4	1.93	2.08	1.98	1.47	2.53	2.90	2.47	2.70	2.47	2.58	3.00	3.10	2.30	2.90
Secchi (ft)	7.9	6.3	6.8	6.5	4.8	8.3	9.5	8.1	8.9	8.1	8.5	10.0	10.1	7.6	9.4

Carlson's Trophic State Index

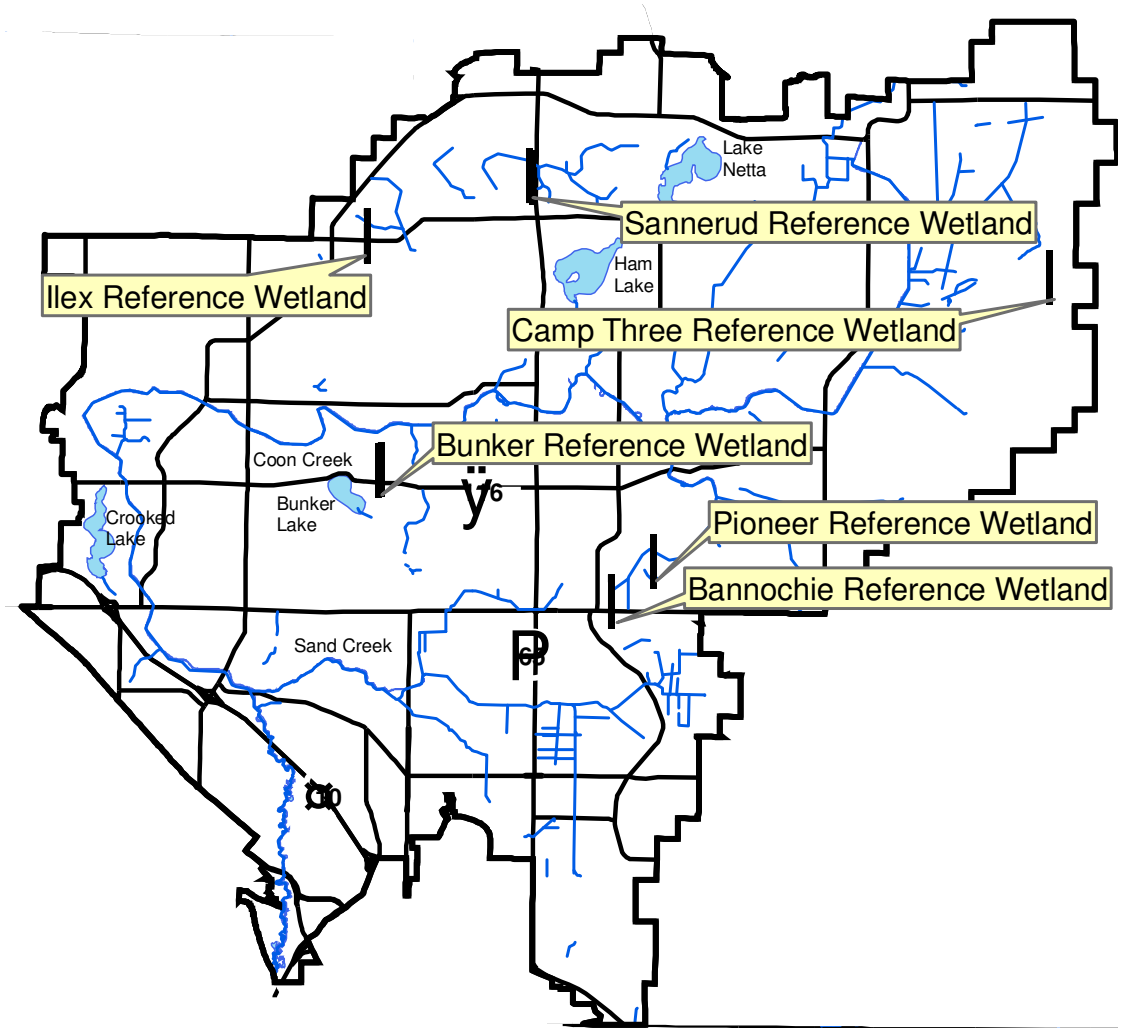
Year	1975	1990	1991	1992	1993	1997	1998	1999	2001	2003	2004	2006	2007	2009	2010
TSIP						49	62	49	54	48	50	52	50	54	49
TSIC						49	58	44	51	48	48	47	48	52	45
TSIS	47	51	49	50	54	47	45	47	46	47	46	44	44	48	45
TSI						48	55	47	50	48	48	48	47	51	46

Lake Netta Water Quality Report Card

Year	1975	1990	1991	1992	1993	1997	1998	1999	2001	2003	2004	2006	2007	2009	2010
TP (µg/L)						A	A	A	B	A	B+	B	B	C	A-
Cl-a (µg/L)						A	A	A	A	A	A	A	A	A	A
Secchi (m)	B	C	C	C	C	A	A	A	B	B	B	B+	B	B	A-
Overall						**B**	**B**	**A**	**B**	**A**	**A**	**B+**	**B+**	**B**	**A-**

Lake monitoring has followed the following schedule:

	2009	2010	2011	2012	2013
Crooked	X		**X**	X	
Ham		X	**X**		X
Laddie				X	X
Netta	X	X		X	X
Total Number	2	2	**2**	3	3
Unit Cost	$ 985.00	$ 1,025.00	**$ 1,075.00**	$ 1,096.50	$ 1,118.43
Budget Cost	$ 1,970.00	$ 2,050.00	**$ 2,150.00**	$ 3,289.50	$ 3,355.29
Change in Unit Costs	7%	4.1%	**4.9%**	2.0%	2.0%
Change in Total Costs	7%	4.1%	**4.9%**	53.0%	2.0%



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.

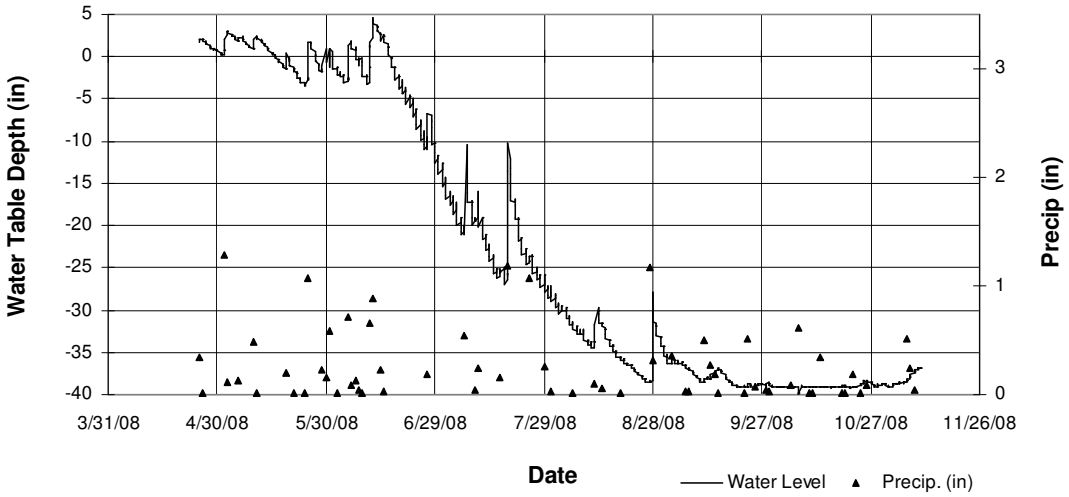
The purpose of reference wetland data is to help assure that wetlands are accurately identified by regulatory personnel. State and federal laws place restrictions on filling, excavation and other activities in wetlands. Commonly, citizens wish to do work in an area that is sometimes, or perhaps only 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.



Wetland Hydrology	**2009**	**2010**	**2011**	**2012**	**2013**
Andover	X	X	X	X	X
Bunker	X	X	X	X	X
Bannochie	X	X	X	X	X
Camp Three	X	X	X	X	X
Pioneer Park	X	X	X	X	X
Sannerud	X	X	X	X	X
Total Number	6	6	**6**	6	6
Unit Cost	$ 525.00	$ 535.00	**$ 545.00**	$ 555.90	$ 567.02
Budget Cost	$ 3,150.00	$ 3,210.00	**$ 3,270.00**	$ 3,335.40	$ 3,402.11
Analysis	$ 300.00	$ 315.00	**$ 325.00**	$ 331.50	$ 338.13
Change in Unit Costs	0%	1.9%	**1.9%**	2.0%	2.0%
Change in Total Costs	0%	1.9%	**1.9%**	2.0%	2.0%

Wetland Veg Transects	**2009**	**2010**	**2011**	**2012**	**2013**
Andover					
Bunker		X	X		
Bannochie					
Camp Three					
Pioneer Park					
Sannerud		X	X		
Total Number	0	2	2	2	2
Unit Cost	$ 360.00	$ 370.00	**$ 380.00**	$ 387.60	$ 395.35
Budget Cost	**$ -**	$ 740.00	**$ 760.00**	$ 775.20	$ 790.70
Change in Unit Costs	3.0%	6.0%	**2.7%**	2.0%	2.0%
Change in Total Costs			**2.7%**	2.0%	2.0%

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 (2011 to 2013)	
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 (2013 – 2015)	
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.

End