



Bassett Creek Watershed Management Commission

A g e n d a

11:30 a.m., Thursday, March 15, 2012

Golden Valley City Hall Council Chambers – 7800 Golden Valley Road, Golden Valley 55427

1. CALL TO ORDER
2. APPROVAL OF AGENDA AND CONSENT AGENDA - Items marked with an asterisk (*) will be acted on by one motion. There will be no discussion of the Consent Agenda items unless a commissioner requests.
3. CITIZEN INPUT ON NON-AGENDA ITEMS
4. ADMINISTRATION
 - A. Presentation of February 16th meeting minutes *
 - B. Presentation of Financial Statements *
 - C. Presentation of Invoices for Payment Approval
 - i. Kennedy & Graven – Legal Services through January 31, 2012
 - ii. Barr Engineering – Engineering Services through February 24, 2012
 - iii. Amy Herbert – February Secretarial Services
 - iv. D'amico-ACE Catering – March 2012 Meeting Catering
 - v. Shingle Creek Watershed Management Commission- 2012 WMWA Expenses through March 6, 2012
 - vi. MMKR Certified Public Accountants- FY2011 Audit Work through January 31, 2012
5. NEW BUSINESS
 - A. Approval of 2012 BWSR Grant Agreement (*see Barr Engineering memo*)
6. OLD BUSINESS
 - A. Cooperative Agreement for Feasibility Study for the Pond Dredging Project in the Northwood Lake Watershed (on the BCWMC's CIP for 2013) (*see Cooperative Agreement*)
 - B. AMLAC Request to Create a Document Regarding the Medicine Lake Dam and Lake Level (*see AMLAC request*)
 - C. TAC Recommendations on BCWMC CIP for 2014 – 2018 (*see TAC memo*)
 - D. Discuss BCWMC Procedure of Review of Final Plans and Specs of CIP Projects (*verbal*)
 - E. Bassett Creek Restoration Project: Wisconsin Ave. to Crystal Border (2011 CR) (*see Barr Engineering memo*)
 - F. Next Generation Watershed Management Plan (*see Barr Engineering memo*)
 - i. Review Identified Issues and Identify Additional Issues
 - ii. Discuss Next Steps in the Process
 - G. 2011 Water Quality Monitoring Activities (*see Barr Engineering memo*)
7. COMMUNICATIONS
 - A. Chair
 - B. Commissioners
 - C. Committees
 - D. Counsel *
 - E. Engineer
8. ADJOURNMENT

Bassett Creek Watershed Management Commission Minutes of the Meeting of February 16, 2012

1. CALL TO ORDER

The Bassett Creek Watershed Management Commission (BCWMC) was called to order at 11:32 a.m., on Thursday, February 16, 2012, at Golden Valley City Hall by Vice Chair Black. Ms. Herbert called roll.

ROLL CALL		Counsel	Charlie LeFevere
Crystal	<i>Not represented</i>	Engineer	Karen Chandler
Golden Valley	Commissioner Stacy Hoschka	Recorder	Amy Herbert
Medicine Lake	Commissioner Ted Hoshal		
Minneapolis	Commissioner Michael Welch		
Minnetonka	<i>Not represented</i>		
New Hope	Commissioner John Elder		
Plymouth	Commissioner Ginny Black		
Robbinsdale	Commissioner Wayne Sicora		
St. Louis Park	Commissioner Jim de Lambert		

Also present:

Laura Adler, BCWMC Technical Advisory Committee, City of St. Louis Park
Derek Asche, BCWMC Technical Advisory Committee, City of Plymouth
Richard Brix, Golden Valley Resident
Jeannine Clancy, BCWMC Technical Advisory Committee, Golden Valley
Lois Eberhart, BCWMC Technical Advisory Committee, City of Minneapolis
Christopher Gise, Golden Valley Resident
Dave Hanson, Alternate Commissioner, City of Golden Valley
Gary Holter, AMLAC (Association of Medicine Lake Area Citizens)
Linda Loomis, Golden Valley Resident
Chris Long, BCWMC Technical Advisory Committee, City of New Hope
Tom Mathisen, BCWMC Technical Advisory Committee, City of Crystal
Richard McCoy, BCWMC Technical Advisory Committee, City of Robbinsdale
Jane McDonald Black, Golden Valley Resident
Jeff Oliver, BCWMC Technical Advisory Committee, City of Golden Valley
Liz Stout, BCWMC Technical Advisory Committee, City of Minnetonka
Liz Thornton, BCWMC Education Committee; Plymouth Resident

2. ORGANIZATIONAL MEETING

Vice Chair Black called for nominations for BCWMC Chair. Commissioner Elder moved to nominate Commissioner Black as Chair. Vice Chair Black called for nominations two more times and then closed the nomination process. The Commission unanimously voted to appoint Commissioner Black as BCWMC Chair. [Cities of Crystal and Minnetonka absent from vote].

Chair Black called for nominations for BCWMC Vice Chair. Commissioner Welch nominated Commissioner de Lambert as Vice Chair. Chair Black called for nominations two more times and then closed the nomination process. The Commission unanimously voted to appoint Commissioner de Lambert as Vice Chair [Cities of Crystal and Minnetonka absent from vote].

Chair Black called for nominations for BCWMC Treasurer. Commissioner Welch nominated Commissioner Hoschka as Treasurer. Chair Black called for nominations two more times and then closed the nomination process. The Commission unanimously voted to appoint Commissioner Hoschka as Treasurer [Cities of Crystal and Minnetonka absent from vote].

Chair Black called for nominations for BCWMC Secretary. Commissioner de Lambert nominated Commissioner Hoshal as Secretary. Chair Black called for nominations two more times and then closed the nomination process. The Commission unanimously voted to appoint Commissioner Hoshal as Secretary [Cities of Crystal and Minnetonka absent from vote].

Chair Black moved to the next order of business: Committee appointments. Commissioner Hoshal volunteered to chair the Education Committee. Commissioner Elder nominated Commissioner Hoshal as the Education Committee Chair. Commissioner Hoshal noted that Liz Thornton and Bonnie Harper-Lore are interested in continuing as committee members. The Commission unanimously voted on the membership of the Education Committee as described [Cities of Crystal and Minnetonka absent from vote]. Commissioner Hoshal noted that Margie Vigoren also may be interested in continuing to serve on the Education Committee.

Chair Black stated that the BCWMC's Administrative Services Committee has previously comprised the four officers of the Commission. Commissioner Elder supported that structure. Chair Black nominated Commissioner Welch to the Committee in addition to the Commission's four officers. Chair Black asked Commissioner Sicora if he would like to serve on the Committee. Commissioner Welch asked Commissioner de Lambert if he would serve as the Committee chair. Commissioner Sicora agreed to serve on the Committee. Chair Black closed nominations. The Commission unanimously voted on the membership of the Administrative Services Committee as described [Cities of Crystal and Minnetonka absent from vote].

Commissioner Welch moved that the BCWMC officers serve as the BCWMC Executive Committee. Commissioner de Lambert seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

Chair Black said that the next order of business is appointing the Budget Committee. Commissioner Welch asked Linda Loomis if she would serve on the Budget Committee. Ms. Loomis agreed. Commissioner Elder moved for the Executive Committee plus Ms. Loomis to comprise the Budget Committee. Commissioner Hoshal seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

3. APPROVAL OF AGENDA AND CONSENT AGENDA

Commissioner Welch noted the length of the agenda and asked if anything could be deferred until next month. Chair Black said that item 7C – Cooperative Agreement for the Feasibility Study for the Pond Dredging Project in the Northwood Lake Watershed – could be deferred since bid numbers weren't coming in until today. Commissioner Welch moved to approve the agenda as amended. Commissioner Elder seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

Commissioner Welch moved to approve the consent agenda. Commissioner Elder seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

4. CITIZEN INPUT ON NON-AGENDA ITEMS

No citizen input on non-agenda items

5. ADMINISTRATION

5A. Presentation of January 19, 2012, Meeting Minutes. The meeting minutes were approved as part of the Consent Agenda.

5B. Presentation of Financial Statements. The BCWMC's February 2012 financial report was approved as part of the Consent Agenda.

The general and construction account balances reported in the February 2012 Financial Report are as follows:

Checking Account Balance	\$846,020.81
TOTAL GENERAL FUND BALANCE	\$846,020.81
TOTAL CONSTRUCTION CASH & INVESTMENTS	\$2,438,199.67
Revenue	\$0
Current Expenses	(\$0)
TOTAL ON-HAND CONSTRUCTION CASH & INVESTMENTS	\$2,438,199.67
CIP Projects Levied – Budget Remaining	(\$2,267,346.08)
Closed Projects Remaining Balance	\$170,853.59
Anticipated Closed Project Balance	\$182,429.14

5C. Presentation of Invoices for Payment Approval.

- i. Kennedy & Graven – Legal Services through December 31, 2011 – invoice for the amount of \$633.46.
- ii. Barr Engineering Company – Engineering Services through January 27, 2012 – invoice for the amount of \$33,401.28.
- iii. Amy Herbert – January Secretarial Services – invoice for the amount of \$2,303.73.
- iv. D'amico - ACE Catering – February BCWMC meeting catering – invoice for the amount of \$340.44.
- v. City of Golden Valley – Invoice for 2011 Financial Services – invoice for the amount of \$3,000.

Commissioner Hoshal moved to approve payment of all of the invoices. Commissioner Welch seconded the motion. By call of roll the motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

5D. Discuss Participation in the Metropolitan Council's 2012 CAMP Program. The Commission discussed its 2011 participation in the program and listed the seven lakes it sponsored volunteer monitoring of during last year's monitoring season. Commissioner Welch moved to have Commissioner Hoshal contact the volunteer monitor on Hidden Lake about interest in volunteering again and to work with Derek Asche to determine if Parkers Lake would have a volunteer willing to monitor. Commissioner Welch continued the motion to approve BCWMC participation in the Metropolitan Council's 2012 CAMP program for volunteer monitoring of one site on Sweeney Lake – the south site, both sites on Medicine Lake, and also Northwood, Twin, and Westwood lakes, along with either Hidden Lake or Parkers Lake. Commissioner Elder seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

5E. Review the BCWMC's Closed Account Policy. Commissioner Welch moved to approve maintaining the BCWMC's Closed Account Policy as is. Commissioner Elder seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

5F. Discuss Preparation of the Annual Report of 2011 Activities. Commissioner Welch moved for Barr Engineering Company and Amy Herbert to work together to prepare the annual report and to review minutes from 2011 regarding any changes to the report Commission requested after reviewing last year's annual report. Commissioner Elder seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

5G. Review 2012 Budget. Ms. Chandler stated that the Commission Engineer is asking for Commission approval of the 2012 Engineering Budget as adopted last spring by the Commission and approval for the Engineer to perform the 2012 WOMP (watershed outlet monitoring program) tasks. Commissioner Welch moved to approve the Commission Engineer performing the work for the 2012 WOMP tasks and to affirm the BCWMC's 2012 budget. Commissioner de Lambert seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Crystal and Minnetonka absent from vote].

5H. Administrative Services Committee Update on Administrator Discussion. Commissioner Welch summarized that the Commission had hired an administrator on a contract basis and that administrator ended the contract in September 2011. He discussed the recent Administrative Services Committee meeting and explained that the Committee reviewed the request for proposals (RFP) that it used to solicit proposals for the administrator position in 2010. The Committee revised the RFP by focusing and narrowing the

scope of the administrator's job. Commissioner Welch read the list of administrator tasks from the revised RFP. He reported that the Committee feels strongly that the Commission needs an Administrator.

Commissioner Welch informed the Commission that the Administrative Services Committee met with Doug Snyder, the Executive Director/ Administrator of the Mississippi Watershed Management Organization. Commissioner Welch said that the meeting was extremely useful and that Mr. Snyder had many helpful suggestions for the BCWMC. Commissioner Welch said that the discussion explored a couple of main ideas on ways the MWMO's staff could meet the administrator needs of the Commission. He said that the Committee will be pursuing a few ideas but a recommendation to the Commission is still a few months away.

Commissioner de Lambert noted that the discussion at the Committee meeting also brought up possible synergies between the MWMO and the BCWMC in the area of public education. Commissioner de Lambert said he thinks that being able to tap into that education resource would really benefit the BCWMC. Chair Black said that today the Committee is looking for any input from the Commission. Commissioner Sicora said that having an Administrator is essential and he also noted that the information presented today by the Committee is very interesting and this is the first that he has heard about any of this. Commissioner Elder commented that he needs time to ruminate on the idea but he does like it.

Chair Black asked if it would help the Commission if it could see a draft proposal from the MWMO. Commissioner Sicora said it would be helpful to see it and a work plan. Commissioner Elder said the information should also include costs. Ms. Chandler commented that she assumes the Commission will have a say in who is selected from the MWMO to work with the Commission. Commissioner Welch said that component is very important to him. Commissioner Welch said that Mr. Snyder had already been planning to get something in writing to the Administrative Services Committee, which can be passed on to the Commission.

Chair Black said it sounds like the Commission needs more details such as costs, job descriptions, and a work plan. She said that the revised RFP should go into the March meeting packet.

[Commissioner Elder departs the meeting.]

Chair Black asked if the Commission was interested in having Doug Snyder attend a Commission meeting. The Commission indicated interest. Commissioner Welch volunteered to invite Mr. Snyder to the March or April Commission meeting.

6. NEW BUSINESS

A. Presentation by Dr. Keith Pilgrim, Barr Engineering, on the Feasibility Study on the Schaper Pond Improvement Project. Dr. Pilgrim summarized and presented with a PowerPoint presentation the two viable and least costly methods for reducing phosphorous loads into Sweeney Lake. He explained that the two methods are dredging Schaper Pond and diverting water from the Highway 55 inlet to the northwest lobe of the pond. He said that based on the findings of the feasibility report and the goals of the TMDL (total maximum daily load) he recommends that the Commission construct the diversion structure and post-construction conduct one-year of monitoring to evaluate the phosphorous reduction.

Ms. Chandler said that the action in front of the Commission today is to accept the feasibility report and then the ball would be in the City of Golden Valley's court on whether it wants to ask the Commission to consider adding this project to its CIP (Capital Improvement Program). Ms. Clancy spoke up to say that the City of Golden Valley does want the Commission to consider adding the

project to the Commission's CIP. Ms. Chandler said that the request would be part of the Commission's annual CIP review.

Commissioner Welch said that he would like the Commission Engineer to look into getting Mn/DOT to fund some of this project. Ms. Eberhart asked if any part of the project would be located in Mn/DOT right-of-way. Mr. Oliver replied no. Commissioner Hoshal said that this project would be an opportunity to pursue Clean Water Legacy Grant funds. Ms. Chandler agreed. Chair Black said that she is hearing that the Commission accepts the feasibility report, wants to look into asking Mn/DOT to share in the cost of the project in light of the TMDL requirements, and to look into Clean Water Legacy Grant funding. The Commission agreed. Ms. Chandler said that the grant application process doesn't start until late summer.

The Commission discussed the project option that included the diversion with a walkway, which would provide public access to the pond for viewing. Ms. Chandler remarked that the Minnesota Board of Water and Soil Resources (BWSR) may choose to fund the walkway due to its educational component. Commissioner Hoschka stated that the City of Golden Valley doesn't have funding for the walkway.

- B. **Presentation by Keith Pilgrim, Barr Engineering, on Twin Lake Management Options.**
Postponed to later in the meeting.
- C. **Golden Valley 2012 Pavement Management Plan.** Ms. Chandler summarized the project as detailed in the February 7, 2012, Engineer's Memo. She said that approximately 2.1 miles of residential streets will be reconstructed and the project will include curb and gutter, sewer repair, and water main replacement. Ms. Chandler said that 12.69 acres in the watershed will be disturbed as part of the project and the amount of impervious surface area will decrease from 6.07 acres to 5.33 acres. She also said that the project proposes nine sump manholes. Ms. Chandler explained the Commission Engineer's recommendations regarding the project including increasing the depth of the sump manholes to four feet, the manholes to be maintained and inspected at least twice a year, and that the City consider installing SAFL baffles at each sump, along with the recommendation about the extension of the outlet pipes from King Creek Road, and naming Golden Valley as the LGU and as such is the responsible party for reviewing the project for conformance to the Minnesota Wetland Conservation Act.

Mr. Oliver said that the City will be using SAFL baffles and also he noted that the project will reduce total phosphorous loading from the site by 1.4 pounds per year.

Commissioner Hoshal moved to approve the project with the Engineer recommendations as listed in the Engineer's memo. Commissioner Hoschka seconded the motion. The motion carried unanimously with six votes in favor [Cities of Crystal, Minnetonka, and New Hope absent from vote].

7. OLD BUSINESS

- A. **Discuss BCWMC Procedure of Review of Final Plans and Specs of CIP Projects.** Deferred to March.
- B. **Resolution 12-05 Approving the Cooperative Agreement for the Main Stem Restoration Project (Irving Avenue to Golden Valley Road).** Ms. Eberhart said that she had added language to the Cooperative Agreement and the language said, "It is the right of the City to contain costs within the reimbursable amount, adjusting the scope of work if necessary, with notice to the Commission." She explained why she added the language and said that if there are cost overruns then the City will have to scale back the project and she felt that this understanding should be captured in the agreement. Mr.

LeFevere said that if there are unforeseen circumstances that arise there can be dialog between the City and the Commission at that time. Commission Welch asked Ms. Eberhart if the City would agree to take that language out of the Agreement. Ms. Eberhart agreed.

Commissioner Welch moved to adopt Resolution 12-05 approving the Cooperative Agreement as revised by removing the language on page 3 that had been added in by the City of Minneapolis. Mr. LeFevere commented that the section of the Agreement about the signage should also be revised to add the requirement that project signage include the Clean Water Fund (CWF) logo and to indicate CWF grant funding as specified in the CWF grant agreement. Commissioner Welch made the friendly amendment to his motion that the Cooperative Agreement be revised to add language about the project signage and the CWF grant requirements for the project signage. Commissioner Hoshal seconded the motion. The motion carried unanimously with six votes in favor [Cities of Crystal, Minnetonka, and New Hope absent from vote].

- C. Update on and Cooperative Agreement for the Feasibility Study for the Pond Dredging Project in the Northwood Lake Watershed (on the BCWMC's CIP for 2013). Deferred to March.
- D. Bassett Creek Restoration Project: Wisconsin Avenue to Crystal border (20122 CR) – Item withdrawn from agenda prior to the BCWMC meeting.
- I. Resolution 12-06 Approving the Reimbursement to the BCWMC 2.5% of the 2011 Tax Levy Request to Hennepin County. Commissioner Welch moved to approve Resolution 12-06. Commissioner de Lambert seconded the motion. The motion carried unanimously with six votes in favor [Cities of Crystal, Minnetonka, and New Hope absent from vote].

6B. Presentation by Keith Pilgrim, Barr Engineering, on Twin Lake Management Options. Dr. Pilgrim provided background information on the 2010 water quality monitoring of Twin Lake and the results. He informed the Commission of the floating island management option. Dr. Pilgrim presented data on the performance of such floating wetlands, but also pointed out the limitations of the current data such as the tests were conducted primarily in high-phosphorous, flow-through environments, no tests have been done in a lake of a comparable size to Twin Lake, and the tests have been poorly documented. Dr. Pilgrim also presented the opinion of using alum to provide in-lake treatment. Chair Black asked about the effects plants could have regarding puncturing the alum skin. Dr. Pilgrim answered that alum floc does not stay in shallow areas but instead to move into the deepest area of the lake. Ms. Clancy recommended discussing this option with the Minneapolis Park and Recreation Board. Commissioner Welch stated that he would like to be part of any communications with the Minneapolis Park and Recreation Board.

[Commissioner Welch departs]

- E. Draft Work Plan for 2012 Grants. Ms. Chandler informed the Commission that the work plan is being worked on and will be submitted to BWSR by the deadline.
- F. AMLAC Request to Create a Document Regarding the Medicine Lake Dam and Lake Level. Deferred to March.
- G. Next Generation Watershed Management Plan. Ms. Chandler pointed out the compilation of identified issues, which was included in the meeting packet. She said she is looking for Commission direction to compile the responses from the fifth questionnaire, out of five, for TAC discussion at its

scheduled April meeting or a March TAC meeting if the Commission schedules one and puts this issue on the March TAC agenda. The Commission directed the Commission Engineer to do that work.

Commissioner Black said that the Commission needs to make some decisions about its process for the Plan revision such as whether the Commission will hold additional meetings. She suggested the Commission think over what it wants the process to look like and to review the compilation prepared by the Commission Engineer for discussion next month.

- H. **Status of TAC Discussions in Relation to Project Review Triggers, Changes to Policies Allowing Nutrient Loading Increases, and Water Quality Banking/ Trading Program.** The Commission discussed setting the agenda for the TAC. Chair Black said that she is hearing consensus that the Commission would like the TAC to conduct the CIP review in March and at the April TAC meeting the TAC should discuss the Next Generation Watershed Management Plan and project review triggers, changes to policies allowing nutrient loading increases, and a water quality banking/ trading program. The Commission agreed.
- I. **Resolution 12-06 Approving the Reimbursement to the BCWMC 2.5% of the 2011 Tax Levy Request to Hennepin County.** *[See discussion of 6I that immediately follows 6D]*
- J. **Update on Watershed-wide Modeling Work.** Ms. Chandler reported that the modeling efforts are in the data collection phase.

8. COMMUNICATIONS

Chair:

- 1. Chair Black welcomed Stacy Hoschka, the newly appointed Commissioner from Golden Valley.

Commissioners:

- 1. Commissioner Hoshal announced a workshop on P-8 modeling at the University of Minnesota on March 13th and 14th.

Committees:

- 1. Ms. Thornton announced that the BCWMC Education display would be part of the March 22nd Environmental Fair at Kimberly Lane Elementary and the April 13th and 14th Plymouth Yard and Garden Expo.
- 2. Ms. Clancy reported that the rain garden workshop being hosted by the City of Golden Valley has been set up and information about it will be forthcoming.

Counsel Communications: No Counsel Communications.

Engineer Communications:

- 1. Ms. Chandler reported on a University of Minnesota student's capstone project that reviewed the feasibility study for the 2012 Main Stem project. Ms. Clancy noted that the City often invites students to present their capstone projects to staff. Mr. Sicora recommended that the Commission invite the student to present the capstone project to the Commission as a brown bag presentation starting 30 minutes prior to one of the upcoming Commission meetings. Chair Black said that she will contact the student with the invitation if Ms. Chandler provides the contact information.

9. ADJOURNMENT

The meeting adjourned at 2:28 p.m.

Chair

Date

Amy Herbert, Recorder

Date

Secretary

Date

48.

BEGINNING BALANCE	7-Feb-12	846,020.81
ADD:		
General Fund Revenue:		
Interest (Bank Charges)	(11.79)	
2012-13 Assessments:		
Medicine Lake	3,484.00	
Have not received St Louis Park		
Permits:		
City of Robbinsdale 2011 Street Improvement	1,000.00	
2011-12 Reimbursed Construction Costs	869.05	
2012-13 Reimbursed Construction Costs	6,467.87	
		<hr/>
	Total Revenue and Transfers In	11,809.13
DEDUCT:		
Checks:		
2011/12 2421 Kennedy & Graven January 2012 Legal	2,282.45	
2422 Barr Engineering February Engineering	29,904.86	
2423 D'Amico Mar meeting	324.88	
2424 Amy Herbert Feb Secretarial	1,790.73	
2425 MMKR Audit Services	1,600.00	
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	Total Checks	35,902.92
Outstanding from previous month:		
Meadowbrook School 2009 Exp-Grant	992.08	
	Total Expenses	35,902.92
		<hr/>
ENDING BALANCE	7-Mar-12	821,927.02

	2012/2013 BUDGET	CURRENT MONTH	YTD 2012/2013	BALANCE
OTHER GENERAL FUND REVENUE				
INTEREST (BANK CHARGES)		(11.79)	(11.79)	
ASSESSMENTS	461,045	3,484.00	443,742.00	17,303.00
PERMIT REVENUE	48,000	1,000.00	8,000.00	40,000.00
REVENUE TOTAL	<hr/> 509,045	<hr/> 4,472.21	<hr/> 451,730.21	<hr/> 57,303.00
EXPENDITURES				
ENGINEERING				
ADMINISTRATION	120,000	10,774.50	10,774.50	109,225.50
PLAT REVIEW	60,000	6,202.00	6,202.00	53,798.00
COMMISSION MEETINGS	14,250	1,414.16	1,414.16	12,835.84
SURVEYS & STUDIES	10,000	0.00	0.00	10,000.00
WATER QUALITY/MONITORING	20,000	225.50	225.50	19,774.50
WATER QUANTITY	11,000	456.36	456.36	10,543.64
WATERSHED INSPECTIONS	7,000	0.00	0.00	7,000.00
ANNUAL FLOOD CONTROL INSPECTIONS	9,000	0.00	0.00	9,000.00
REVIEW MUNICIPAL PLANS	2,000	0.00	0.00	2,000.00
ENGINEERING TOTAL	<hr/> 253,250	<hr/> 19,072.52	<hr/> 19,072.52	<hr/> 234,177.48
PLANNING				
WATERSHED-WIDE SP-SWMM MODEL	70,000	167.50	167.50	69,832.50
WATERSHED-WIDE P8 WATER QUALITY MODEL	135,000	2,001.00	2,001.00	132,999.00
NEXT GENERATION PLAN	40,000	1,334.00	1,334.00	38,666.00
PLANNING TOTAL	<hr/> 245,000	<hr/> 3,502.50	<hr/> 3,502.50	<hr/> 241,497.50
ADMINISTRATOR	50,000	0.00	0.00	50,000.00
LEGAL COSTS	18,500	0.00	0.00	18,500.00
AUDIT, INSURANCE & BONDING	15,225	1,600.00	1,700.00	13,525.00
FINANCIAL MANAGEMENT	3,045	0.00	0.00	3,045.00
MEETING EXPENSES	2,750	324.88	665.32	2,084.68
SECRETARIAL SERVICES	40,000	2,652.70	2,652.70	37,347.30
PUBLICATIONS/ANNUAL REPORT	2,000	0.00	0.00	2,000.00
WEBSITE	2,500	0.00	0.00	2,500.00
PUBLIC COMMUNICATIONS	3,000	0.00	0.00	3,000.00
WOMP	10,000	0.00	0.00	10,000.00
EDUCATION AND PUBLIC OUTREACH	5,775	0.00	0.00	5,775.00
WATERSHED EDUCATION PARTNERSHIPS	13,000	0.00	0.00	13,000.00
EROSION/SEDIMENT (CHANNEL MAINT)	25,000	0.00	0.00	25,000.00
LONG TERM MAINTENANCE (moved to CF)	25,000	0.00	0.00	25,000.00
TMDL STUDIES (moved to CF)	10,000	0.00	0.00	10,000.00
GRAND TOTAL	<hr/> 724,045	<hr/> 27,152.60	<hr/> 27,593.04	<hr/> 696,451.96

Cash Balance 2/7/12

Cash		1,925,270.79	
Investments:			
Federal Home Loan Mtg Corp - Purchased 1/14/11 - Due 9/16/2015 - 0.5% (Current mkt value \$501,615.00)		512,059.83	
Total Cash & Investments			2,437,330.62
Add:			
Interest Revenue (Bank Charges)		(45.05)	
Total Revenue			(45.05)
Less:			
CIP Projects Levied - Current Expenses - TABLE A		(4,106.37)	
Proposed & Future CIP Projects to Be Levied - Current Expenses - TABLE B		(2,361.50)	
Total Current Expenses			(6,467.87)
Total Cash & Investments On Hand	03/07/12		2,430,817.70
Total Cash & Investments On Hand		2,430,817.70	
CIP Projects Levied - Budget Remaining - TABLE A		(2,262,714.46)	
Closed Projects Remaining Balance		168,103.24	
2011 Anticipated Tax Levy Revenue - TABLE C		9,450.41	
Anticipated Closed Project Balance		177,553.65	
2012 Proposed & Future CIP Project Amount to be Levied - TABLE B		1,073,000.00	
2013 Proposed & Future CIP Project Amount to be Levied - TABLE B		196,000.00	

TABLE A - CIP PROJECTS LEVIED

	Approved Budget	Current Expenses	2012 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget
Twin Lake-expected completion 2006	140,000.00	0.00	0.00	5,724.35	134,275.65
West Medicine Lake Park Pond	1,100,000.00	0.00	0.00	744,633.58	355,366.42
Plymouth Creek Channel Restoration (2010)	965,200.00	51.50	51.50	886,227.02	78,972.98
Main Stem Crystal to Regent (2010)	636,100.00	101.50	101.50	258,577.52	377,522.48
Wisc Ave/Duluth Street-Crystal (2011 CR)	580,200.00	3,224.50	3,224.50	47,137.97	533,062.03
North Branch-Crystal (2011 CR-NB)	834,900.00	0.00	0.00	41,967.86	792,932.14
Plymouth Pond NB-07(NL-2)	0.00	728.87	728.87	9,417.24	(9,417.24)
	4,256,400.00	4,106.37	4,106.37	1,993,685.54	2,262,714.46

TABLE B - PROPOSED & FUTURE CIP PROJECTS TO BE LEVIED

	Approved Budget - To Be Levied	Current Expenses	2012 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget
2012					
Wirth Lake Outlet Modification (WTH-4)(2012)	180,000.00	708.00	708.00	25,937.34	154,062.66
Main Stem Irving Ave to GV Road (2012 CR)	856,000.00	1,653.50	1,653.50	75,021.47	780,978.53
Schaper Pond Enhancement Feasibility (SL-1)	37,000.00	0.00	0.00	39,632.49	(2,632.49)
2012 Project Totals	1,073,000.00	2,361.50	2,361.50	140,591.30	932,408.70
2013					
Lakeview Park Pond (2013)	196,000.00	0.00	0.00	2,113.50	193,886.50
2013 Project Totals	196,000.00	0.00	0.00	2,113.50	193,886.50
Total Proposed & Future CIP Projects to be Levied	1,269,000.00	2,361.50	2,361.50	142,704.80	1,126,295.20

TABLE C - TAX LEVY REVENUES

	County Levy	Abatements / Adjustments	Adjusted Levy	Current Received	Year to Date Received	Inception to Date Received	Balance to be Collected	BCWMO Levy
2011 Tax Levy	863,268.83	(2,871.91)	860,396.92			850,946.51	9,450.41	862,400.00
2010 Tax Levy	935,298.91	(4,927.05)	930,371.86			927,004.63	3,367.23	935,000.00
2009 Tax Levy	800,841.30	(8,054.68)	792,786.62			792,142.93	643.69	800,000.00
2008 Tax Levy	908,128.08	(4,357.22)	903,770.86			903,546.00	224.86	907,250.00
2007 Tax Levy	190,601.74	(657.93)	189,943.81			189,939.15	4.66	190,000.00
2006 Tax Levy	531,095.47	(2,736.30)	528,359.17			528,512.20	(153.03)	519,000.00
				0.00			13,537.82	

OTHER PROJECTS:

	Approved Budget	Current Expenses / (Revenue)	2012 YTD Expenses / (Revenue)	INCEPTION To Date Expenses / (Revenue)	Remaining Budget
TMDL Studies					
TMDL Studies	125,000.00	0.00	0.00	102,756.15	22,243.85
Sweeney TMDL	119,000.00	0.00	0.00	212,222.86	
Less: MPCA Grant Revenue		0.00	0.00	(163,870.64)	70,647.78
TOTAL TMDL Studies	244,000.00	0.00	0.00	151,108.37	92,891.63
Annual Flood Control Projects:					
Flood Control Emergency Maintenance	500,000.00	0.00	0.00	0.00	500,000.00
Flood Control Long-Term Maintenance	548,373.00	0.00	0.00	13,566.33	534,806.67
Sweeney Lake Outlet (2012 FC-1)	250,000.00	0.00	0.00	11,648.15	238,351.85
Annual Water Quality					
Channel Maintenance Fund	225,000.00			41,818.10	183,181.90
Total Other Projects	1,767,373.00	0.00	0.00	218,140.95	1,549,232.05

Cash Balance 2/7/12	1,305,978.20
Add:	
MPCA Grant-Sweeney Lk	0.00
Less:	
Current (Expenses)/Revenue	0.00
Ending Cash Balance	03/07/12
	<u>1,305,978.20</u>

CIP Projects Levied							
Total			2010	2010	2011	2011	
CIP Projects Levied	Twin Lake	West Medicine Lake Park Pond (2008-1)	Plymouth Creek Channel Restoration (CR)	Main Stem Crystal to Regent (CR)	Wisc Ave (Duluth Str)-Crystal (GV)	North Branch - Crystal (CR-NB)	Plymouth Pond NB-07 (NL-2)
Original Budget	4,256,400	140,000	1,100,000	965,200	636,100	580,200	834,900
Expenditures:							
Feb 2004 - Jan 2005	1,983.50	1,983.50					
Feb 2005 - Jan 2006	1,716.70	1,716.70					
Feb 2006 - Jan 2007	2,164.95	375.70	1,789.25				
Feb 2007 - Jan 2008	1,871.70	36.00	1,835.70				
Feb 2008 - Jan 2009	39,346.36		18,392.11	20,954.25			
Feb 2009 - Jan 2010	23,188.45	1,612.45	687.00	9,319.95	11,569.05		
Feb 2010 - Jan 2011	831,336.15		721,929.52	30,887.00	11,590.80	34,803.97	31,522.86
Feb 2011 - Jan 2012	1,087,971.36			825,014.32	235,316.17	9,109.50	10,445.00
Feb 2012 - Jan 2013	4,106.37			51.50	101.50	3,224.50	
Total Expenditures:	1,993,685.54	5,724.35	744,633.58	886,227.02	258,577.52	47,137.97	41,967.86
Project Balance	2,262,714.46	134,275.65	355,366.42	78,972.98	377,522.48	533,062.03	792,932.14
							(9,417.24)

Total			2010	2010	2011	2011	
CIP Projects Levied	Twin Lake	West Medicine Lake Park Pond (2008-1)	Plymouth Creek Channel Restoration (CR)	Main Stem Crystal to Regent (CR)	Wisc Ave (Duluth Str)-Crystal (GV)	North Branch - Crystal (CR-NB)	Plymouth Pond NB-07 (NL-2)
Project Totals By Vendor							
Barr Engineering	160,815.63	3,758.10	7,004.91	42,659.60	25,383.00	42,327.82	30,790.21
Kennedy & Graven	10,059.30	1,966.25	1,427.15	2,120.10	2,435.25	792.65	792.65
City of Golden Valley	222,788.32				222,788.32		
City of Plymouth	1,555,087.29		736,201.52	818,885.77			
Com of Trans							
S E H							
Misc							
2.5% Admin Transfer	44,935.00			22,561.55	7,970.95	4,017.50	10,385.00
Total Expenditures	1,993,685.54	5,724.35	744,633.58	886,227.02	258,577.52	47,137.97	41,967.86
							9,417.24

Total			2010	2010	2011	2011	
CIP Projects Levied	Twin Lake	West Medicine Lake Park Pond (2008-1)	Plymouth Creek Channel Restoration (CR)	Main Stem Crystal to Regent (CR)	Wisc Ave (Duluth Str)-Crystal (GV)	North Branch - Crystal (CR-NB)	Plymouth Pond NB-07 (NL-2)
Levy/Grant Details							
2009/2010 Levy	935,000		902,462	32,538			
2010/2011 Levy	862,400			286,300	160,700	415,400	
2011/2012 Levy							
Construction Fund Balance	904,000		62,738	2,262	419,500	419,500	
BWSR Grant- BCWMO	360,000		212,250	147,750			
Total Levy/Grants	3,061,400		1,177,450	468,850	580,200	834,900	
BWSR Grants Received			191,025	132,975			

Bassett Creek Construction Project Details

Proposed & Future CIP Projects (to be Levied)					
	Total Proposed & Future CIP Projects (to be Levied)	2012 Wirth Lake Outlet Modification (WTH-4)	2012 Main Stem Irving Ave to GV Road (2012CR)	2013 Lakeview Park Pond (ML-8)	2012 Schaper Pond Enhancement Feasibility (SL-1)
Original Budget	1,269,000	180,000	856,000	196,000	37,000
Expenditures:					
Feb 2004 - Jan 2005	637.50			637.50	
Feb 2005 - Jan 2006					
Feb 2006 - Jan 2007					
Feb 2007 - Jan 2008					
Feb 2008 - Jan 2009					
Feb 2009 - Jan 2010					
Feb 2010 - Jan 2011	4,630.00	2,910.00	1,720.00		
Feb 2011 - Jan 2012	135,075.80	22,319.34	71,647.97	1,476.00	39,632.49
Feb 2012 - Jan 2013	2,361.50	708.00	1,653.50		
Total Expenditures:	142,704.80	25,937.34	75,021.47	2,113.50	39,632.49
Project Balance	1,126,295.20	154,062.66	780,978.53	193,886.50	(2,632.49)

	Total Proposed & Future CIP Projects (to be Levied)	2012 Wirth Lake Outlet Modification (WTH-4)	2012 Main Stem Irving Ave to GV Road (2012CR)	2013 Lakeview Park Pond (ML-8)	2012 Schaper Pond Enhancement Feasibility (SL-1)
Project Totals By Vendor					
Barr Engineering	139,116.75	23,712.19	73,703.57	2,068.50	39,632.49
Kennedy & Graven	3,588.05	2,225.15	1,317.90	45.00	
City of Golden Valley					
City of Plymouth					
Com of Trans					
S E H					
Misc					
2.5% Admin Transfer					
Total Expenditures	142,704.80	25,937.34	75,021.47	2,113.50	39,632.49

	Total Proposed & Future CIP Projects (to be Levied)	2012 Wirth Lake Outlet Modification (WTH-4)	2012 Main Stem Irving Ave to GV Road (2012CR)	2013 Lakeview Park Pond (ML-8)	2012 Schaper Pond Enhancement Feasibility (SL-1)
Levy/Grant Details					
2009/2010 Levy					
2010/2011 Levy					
2011/2012 Levy	971,000	175,000	600,000	196,000	
Construction Fund Balance					
BWSR Grant- BCWMO	75,000	75,000			
Total Levy/Grants	1,046,000	250,000	600,000	196,000	
BWSR Grants Received		67,500			

Bassett Creek Construction Project Details

Other Projects							
Total					2012		Totals - All Projects
Other Projects	TMDL Studies	Sweeney Lake TMDL	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Sweeney Lake Outlet (FC-1)	Channel Maintenance	
Original Budget	1,717,373.00	125,000.00	119,000.00	500,000.00	773,373.00 (250,000.00)	200,000.00	7,242,773.00
MPCA Grant From GF	163,870.64		163,870.64		250,000.00		163,870.64
	50,000.00			25,000.00		25,000.00	50,000.00
Expenditures:							
Feb 2004 - Jan 2005							2,621.00
Feb 2005 - Jan 2006	6,949.19			3,954.44		2,994.75	8,665.89
Feb 2006 - Jan 2007	10,249.09	637.20		9,611.89			12,414.04
Feb 2007 - Jan 2008	113,141.44	23,486.95	89,654.49				115,013.14
Feb 2008 - Jan 2009	117,455.33	31,590.12	47,041.86			38,823.35	156,801.69
Feb 2009 - Jan 2010	76,184.64	31,868.63	44,316.01				99,373.09
Feb 2010 - Jan 2011	45,375.25	15,005.25	25,920.00		4,450.00		881,341.40
Feb 2011 - Jan 2012	12,656.65	168.00	5,290.50		7,198.15		1,235,703.81
Feb 2012 - Jan 2013							6,467.87
Total Expenditures:	382,011.59	102,756.15	212,222.86		13,566.33	41,818.10	2,518,401.93
Project Balance	1,549,232.05	22,243.85	70,647.78	500,000.00	534,806.67	238,351.85	4,938,241.71

Total					2012		Totals - All Projects
Other Projects	TMDL Studies	Sweeney Lake TMDL	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Sweeney Lake Outlet (FC-1)	Channel Maintenance	
Project Totals By Vendor							
Barr Engineering	214,564.19	99,879.70	94,948.17		10,187.00		514,496.57
Kennedy & Graven	5,907.54	1,164.30	2,902.59	9,549.32	1,461.15	354.75	19,554.89
City of Golden Valley	2,640.00			24.75		2,640.00	225,428.32
City of Plymouth	38,823.35					38,823.35	1,593,910.64
Com of Trans	3,992.26			3,992.26			3,992.26
S E H	101,598.10		101,598.10				101,598.10
Misc	14,486.15	1,712.15	12,774.00				14,486.15
2.5% Admin Transfer							44,935.00
Total Expenditures	382,011.59	102,756.15	212,222.86		13,566.33	41,818.10	2,518,401.93

Total					2012		Totals - All Projects
Other Projects	TMDL Studies	Sweeney Lake TMDL	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Sweeney Lake Outlet (FC-1)	Channel Maintenance	
Levy/Grant Details							
2009/2010 Levy	163,870.64		163,870.64				935,000
2010/2011 Levy	50,000.00			25,000		25,000	912,400
2011/2012 Levy							971,000
Construction Fund Balance							904,000
BWSR Grant- BCWMO							435,000
Total Levy/Grants	213,870.64		163,870.64		25,000	25,000	4,157,400
BWSR Grants Received							



Bassett Creek WMO
7800 Golden Valley Road
Golden Valley, MN 55427

Page # 1
Invoice # 23270051-2012-1
Project # 23/27-0051
Client # 59
March 2, 2012

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
January 28, 2012 through February 24, 2012

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, recording administrator, watershed communities, developers in the watershed, Minneapolis Park and Recreation Board (MPRB), Three Rivers Park District (TRPD), Mississippi Watershed Management Organization, Minnesota Department of Transportation (Mn/DOT), Hennepin County, Minnesota Board of Water and Soil Resources (BWSR), Metropolitan Council Environmental Services (MCES), Minnesota Pollution Control Agency (MPCA), Corps of Engineers and interested citizens; coordination with recording administrator regarding post-meeting tasks; internal meeting regarding possible minor plan amendment to change amendment language; provided comment letter to Mississippi WMO regarding plan amendment; internal discussion regarding TMDL status in BCWMC; call from Commissioner Welch regarding Hennepin County Commissioner survey; provided University of MN capstone information to chair.

Leonard J. Kremer, Principal Engineer/Scientist	
9.0 hours @ \$160.00 per hour	\$ 1,440.00
James P. Herbert, Principal Engineer/Scientist	
1.7 hours @ \$145.00 per hour	\$ 246.50
Karen L. Chandler, Engineer/Scientist/Specialist III	
3.1 hours @ \$145.00 per hour	\$ 449.50
Technicians/Administrative	\$ 291.00
<i>Subtotal, Technical Services.....</i>	<i>\$ 2,427.00</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; coordination with Golden Valley staff and Terra Engineering regarding two single family developments in Golden Valley and prepared email summarizing BCWMC requirements; coordination with Stonebrook Engineering and MPRB regarding Parade Stadium improvements and prepared email outlining BCWMC requirements; follow-up correspondence regarding Parade Stadium; coordination with

Houston Engineering regarding proposed site development; coordination with Sunde Engineering regarding proposed Golden Valley site redevelopment.

James P. Herbert, Principal Engineer/Scientist	
5.2 hours @ \$145.00 per hour	\$ 754.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
2.2 hours @ \$145.00 per hour	\$ 319.00
<i>Subtotal, Preliminary Site Review/Correspondence</i>	<i>\$ 1,073.00</i>

MONTHLY MEETING PREPARATION

Reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with Bassett Creek recording administrator; communications with chair and recording administrator; internal meetings and coordination with recording administrator regarding agenda, to-do list and meeting packet for February 2012 meeting; created to-do list for March meeting; discussion of the Bassett Creek streambank stabilization report done by UMN Capstone team; reviewed 2012 technical budget and prepared 2012 budget summary memorandum; gathered and reviewed historical Medicine Lake outlet information; preparation of the Schaper Pond project results and Twin Lake presentations.

Henry M. Runke, Principal Engineer/Scientist	
0.5 hours @ \$165.00 per hour	\$ 82.50
James P. Herbert, Principal Engineer/Scientist	
11.5 hours @ \$145.00 per hour	\$ 1,667.50
Karen L. Chandler, Engineer/Scientist/Specialist III	
15.2 hours @ \$145.00 per hour	\$ 2,204.00
Keith M. Pilgrim, Engineer/Scientist/Specialist III	
15.0 hours @ \$125.00 per hour	\$ 1,875.00
Technicians/Administrative	\$ 6.00
<i>Subtotal, Monthly Meeting Preparation</i>	<i>\$ 5,835.00</i>

WETLAND ISSUES

Correspondence with BWSR; prepared annual LGU wetland activity report and submitted to BWSR. BCWMC is the LGU and responsible for administration of the Minnesota Wetland Conservation Act for the Cities of Medicine Lake, Robbinsdale and St. Louis Park.

James P. Herbert, Principal Engineer/Scientist	
1.4 hours @ \$145.00 per hour	\$ 203.00
<i>Subtotal, Wetland Issues</i>	<i>\$ 203.00</i>

TAC MEETING PREPARATION

Coordination with recording administrator and TAC members regarding March, 2012 TAC meeting and preparation of TAC materials; prepared memo for February Commission meeting regarding status of TAC discussions on BCWMC policies and trading/banking; prepared for March TAC meeting including updating CIP table to reflect current conditions.

Leonard J. Kremer, Principal Engineer/Scientist	
1.5 hours @ \$160.00 per hour	\$ 240.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
6.8 hours @ \$145.00 per hour	\$ 986.00
Daniel R. Petrik, Engineer/Scientist/Specialist II	
0.1 hours @ \$105.00 per hour	\$ 10.50
<i>Subtotal, TAC Meeting Preparation</i>	<i>\$ 1,236.50</i>

Subtotal Technical Services ***\$ 10,774.50***

PLAT REVIEW

Note: Projects in **Bold** have provided review fees to offset review costs. Projects not in Bold are either in a preliminary stage or were submitted prior to implementation of the fee schedule.

Highway 55 Corporate Center

Telephone conversations and emails with applicant and city staff; reviewed grading, drainage and erosion control plans and prepared comments to City of Plymouth.

Rita W. Weaver, Engineer/Scientist/Specialist II	
3.5 hours @ \$100.00 per hour	\$ 350.00
<i>Subtotal, Highway 55 Corporate Center</i>	<i>\$ 350.00</i>

Rational Energies

Telephone conversations and emails with applicant and city staff; reviewed grading, drainage and erosion control plans and prepared letter of recommendation to City of Plymouth; reviewed revised grading drainage and erosion control plans and prepared letter of approval to City of Plymouth.

James P. Herbert, Principal Engineer/Scientist	
3.8 hours @ \$145.00 per hour	\$ 551.00
Rita W. Weaver, Engineer/Scientist/Specialist II	
3.9 hours @ \$100.00 per hour	\$ 390.00
<i>Subtotal, Rational Energies</i>	<i>\$ 941.00</i>

12955 Highway 55 Parking Exp.

Telephone conversations and emails with applicant and city staff; reviewed grading, drainage and erosion control plans and prepared letter of recommendation to City of Plymouth.

James P. Herbert, Principal Engineer/Scientist	
2.2 hours @ \$145.00 per hour	\$ 319.00
Rita W. Weaver, Engineer/Scientist/Specialist II	
0.6 hours @ \$100.00 per hour	\$ 60.00
<i>Subtotal, 12955 Highway 55 Parking Exp</i>	<i>\$ 379.00</i>

West Health Addition

Several telephone conversations and emails with applicant and city staff; reviewed grading, drainage and erosion control plans and prepared letter of recommendation to City of Plymouth; reviewed historical development plans for the site; reviewed water quality modeling results; reviewed revised grading, drainage and erosion control plans and prepared letter of approval to City of Plymouth.

James P. Herbert, Principal Engineer/Scientist	
6.7 hours @ \$145.00 per hour	\$ 971.50
Rita W. Weaver, Engineer/Scientist/Specialist II	
8.6 hours @ \$100.00 per hour	\$ 860.00
<i>Subtotal, West Health Addition.....</i>	<i>\$ 1,831.50</i>

GV 2012 PMP

Telephone conversations and emails with applicant and city staff; reviewed grading, drainage and erosion control plans; prepared memorandum to the BCWMC; prepared letter of recommendation to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
4.3 hours @ \$145.00 per hour	\$ 623.50
Karen L. Chandler, Engineer/Scientist/Specialist III	
0.5 hours @ \$145.00 per hour.....	\$ 72.50
Rita W. Weaver, Engineer/Scientist/Specialist II	
4.0 hours @ \$100.00 per hour	\$ 400.00
<i>Subtotal, GV 2012 PMP</i>	<i>\$ 1,096.00</i>

Bottineau Transitway Scoping Document

Telephone conversations and emails with Hennepin County; detailed review of scoping document; prepared memorandum to the BCWMC; prepare letter to Hennepin County on behalf of the BCWMC.

James P. Herbert, Principal Engineer/Scientist	
3.5 hours @ \$145.00 per hour	\$ 507.50
Karen L. Chandler, Engineer/Scientist/Specialist III	
7.4 hours @ \$145.00 per hour.....	\$ 1,073.00
Technicians/Administrative.....	\$ 24.00
<i>Subtotal, Bottineau Transitway Scoping Document.....</i>	<i>\$ 1,604.50</i>

<i>Subtotal Plat Review</i>	<i>\$ 6,202.00</i>
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COMMISSION MEETINGS

Attended February 16, 2012 Commission meeting.

Karen L. Chandler, Engineer/Scientist/Specialist III	
4.5 hours @ \$145.00 per hour.....	\$ 652.50
Keith M. Pilgrim, Engineer/Scientist/Specialist III	
6.0 hours @ \$125.00 per hour	\$ 750.00
Expenses (Mileage).....	\$ 11.66
<i>Subtotal, Commission Meetings.....</i>	<i>\$ 1,414.16</i>

WATER QUALITY MONITORING

Correspondence with TRPD; organized Parkers Lake monitoring data and provided to TRPD staff.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$145.00 per hour	\$ 145.00
Margaret R. Rattei, Engineer/Scientist/Specialist II	
0.7 hours @ \$115.00 per hour	\$ 80.50
<i>Subtotal, Water Quality Monitoring</i>	<i>\$ 225.50</i>

WATER QUANTITY

Measured and reviewed lake level elevations as part of the lake-gauging program.

Technicians/Administrative.....	\$ 382.50
Expenses (Mileage/2WD vehicle)	\$ 73.86
<i>Subtotal, Water Quantity.....</i>	<i>\$ 456.36</i>

TOTAL ENGINEERING.....\$ 19,072.52

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including: copies, color copies for meeting packet; postage, CD duplication.

Expenses (B&W/color copies/postage).....	\$ 861.97
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TOTAL SECRETARIAL SERVICES EXPENSES\$ 861.97

PLANNING

WATERSHED-WIDE XP-SWMM MODEL

Coordination regarding watershed-wide XP-SWMM model.

Rita W. Weaver, Engineer/Scientist/Specialist II		
1.3 hours @ \$100.00 per hour	\$	130.00
Michael B. Strong, Engineer/Scientist/Specialist I		
0.5 hours @ \$75.00 per hour	\$	37.50
<i>Subtotal, XP-SWMM Modeling.....</i>	<i>\$</i>	<i>167.50</i>

WATERSHED-WIDE P8 WATER QUALITY MODEL

Coordination regarding watershed-wide P8 water quality model; internal meetings regarding GIS data request and MS4 data request, pond dead storage data, subwatershed divides, ArcMap set-up, Rockford Road analysis and map set-up; internal meeting regarding pond surveys; communications with staff requesting pond survey data from St. Louis Park and Minnetonka; communications with survey staff regarding scheduling pond surveys for April.

Karen L. Chandler, Engineer/Scientist/Specialist III		
0.7 hours @ \$145.00 per hour	\$	101.50
Gregory J. Wilson, Engineer/Scientist/Specialist III		
11.4 hours @ \$140.00 per hour	\$	1,596.00
Margaret R. Rattei, Engineer/Scientist/Specialist II		
1.0 hours @ \$115.00 per hour	\$	115.00
Ross S. Mullen, Engineer/Scientist/Specialist I		
2.9 hours @ \$65.00 per hour	\$	188.50
<i>Subtotal, Watershed-Wide P8 Water Quality Model.....</i>	<i>\$</i>	<i>2,001.00</i>

NEXT GENERATION PLAN

Preliminary data collection for Next Generation Plan; collected and reviewed City storm water requirements for revisions to the BCWMC requirements document and policies; prepared summary of 5th questionnaire and communications with TAC members; prepared memo for February Commission meeting summarizing results of questionnaires and prepared tabulation of results; reviewed city requirements for revisions to BCWMC "requirements" document and next generation plan policies.

Karen L. Chandler, Engineer/Scientist/Specialist III		
5.0 hours @ \$145.00 per hour	\$	725.00
Daniel R. Petrik, Engineer/Scientist/Specialist II		
5.8 hours @ \$105.00 per hour	\$	609.00
<i>Subtotal, Next Generation Plan.....</i>	<i>\$</i>	<i>1,334.00</i>

TOTAL PLANNING	\$	3,502.50
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ANNUAL REPORT

TOTAL ANNUAL REPORT\$ 0.00

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

TOTAL WOMP.....\$ 0.00

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

PLYMOUTH CREEK RESTORATION PROJECT (2010 CR)

Performed grant information review and documentation; participated in BWSR elink training webinar for grant administration/reporting/cost tracking.

Daniel R. Petrik, Engineer/Scientist/Specialist II	
0.3 hours @ \$105.00 per hour	\$ 31.50
Jeffrey D. Weiss, Engineer/Scientist/Specialist II	
0.2 hours @ \$100.00 per hour	\$ 20.00
<i>Subtotal, Plymouth Crk Restoration Project</i>	<i>\$ 51.50</i>

CRYSTAL-REGENT AVENUE (2010 CR)

Performed grant information review and documentation; participated in BWSR elink training webinar for grant administration/reporting/cost tracking; cconference call with BWSR.

Daniel R. Petrik, Engineer/Scientist/Specialist II	
0.3 hours @ \$105.00 per hour	\$ 31.50
Jeffrey D. Weiss, Engineer/Scientist/Specialist II	
0.7 hours @ \$100.00 per hour	\$ 70.00
<i>Subtotal, Crystal-Regent Avenue</i>	<i>\$ 101.50</i>

WISCONSIN AVENUE – CRYSTAL (2011 CR)

Communication with City staff and its consultant; reviewed feasibility study and resource management plan; reviewed streambank restoration drawings and prepared letter of recommendation to Golden Valley; communication with DNR regarding DNR permit application; coordination with Golden Valley staff, reviewed erosion issues, and investigated alternatives for erosion at sites.

Leonard J. Kremer, Principal Engineer/Scientist	
5.0 hours @ \$160.00 per hour	\$ 800.00
James P. Herbert, Principal Engineer/Scientist	
5.7 hours @ \$145.00 per hour	\$ 826.50

Karen L. Chandler, Engineer/Scientist/Specialist III	
0.4 hours @ \$145.00 per hour	\$ 58.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II	
11.4 hours @ \$100.00 per hour	\$ 1,140.00
Amy R. Mikus, Engineer/Scientist/Specialist I	
5.0 hours @ \$80.00 per hour	\$ 400.00
<i>Subtotal, Wisconsin Avenue - Crystal</i>	<i>\$ 3,224.50</i>

PLYMOUTH POND NB-07 (NL-2)

Reviewed cultural resources and Resource Management Plan, coordination with counsel regarding project and minor plan amendment schedule; communications with counsel, Hennepin County staff and Plymouth staff regarding Four Seasons Mall/NB-07 project schedule and minor plan amendment.

Jeffrey T. Lee, Principal Engineer/Scientist	
0.5 hours @ \$130.00 per hour	\$ 65.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
4.3 hours @ \$145.00 per hour	\$ 623.50
Expenses (Iron Mountain)	\$ 40.37
<i>Subtotal, Pond NB-07.....</i>	<i>\$ 728.87</i>

WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Performed grant information review and documentation; participated in BWSR elink training webinar for grant administration/reporting/cost tracking; updated activities expenditures and status for BWSR February 1, 2012 reporting deadline; conference call with BWSR staff.

Karen L. Chandler, Engineer/Scientist/Specialist III	
0.2 hours @ \$145.00 per hour	\$ 29.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II	
0.7 hours @ \$100.00 per hour	\$ 70.00
Daniel R. Petrik, Engineer/Scientist/Specialist II	
5.8 hours @ \$105.00 per hour	\$ 609.00
<i>Subtotal, Wirth Lake Outlet Modification</i>	<i>\$ 708.00</i>

IRVING AVE (CONDUIT ENTR) TO GOLDEN VALLEY RD (2012 CR)

Performed grant information review and documentation; participated in BWSR elink training webinar for grant administration/reporting/cost tracking; created work plan for 2012 grant in elink for web-BWSR website; call from Minneapolis staff regarding draft agreement; conference call with BWSR regarding 2012 grant requirements (work plan, reporting, payments, agreements); communications with counsel regarding cooperative agreement.

Karen L. Chandler, Engineer/Scientist/Specialist III	
3.1 hours @ \$145.00 per hour	\$ 449.50
Daniel R. Petrik, Engineer/Scientist/Specialist II	
10.8 hours @ \$105.00 per hour	\$ 1,134.00

Jeffrey D. Weiss, Engineer/Scientist/Specialist II
0.7 hours @ \$100.00 per hour\$ 70.00
Subtotal, Irving Avenue to Golden Valley Rd (Admin)\$ 1,653.50

TOTAL CAPITAL IMP PROJECTS (Tax Levy)\$ 6,467.87

CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)
--

**TOTAL CAPITAL IMPROVEMENT PROJECTS
(Maintenance Funds)\$ 0.00**

TMDL STUDIES

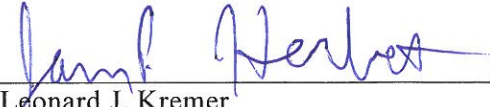
TOTAL TMDL STUDIES.....\$ 0.00

SUMMARY TOTALS

Total Engineering.....\$ 19,072.52
Total Secretarial Services Expenses\$ 861.97
Total Special Projects.....\$ 3,502.50
Total Annual Report\$ 0.00
Total WOMP\$ 0.00
Total Capital Improvement Projects (Tax Levy)\$ 6,467.87
Total Capital Improvement Projects (Maintenance Funds)\$ 0.00
Total TMDL Studies\$ 0.00

TOTAL PAYABLE\$ 29,904.86

Barr declares under the penalties of law
that this account, claim or demand is just
and that no part of it has been paid.



Leonard J. Kremer

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

(612) 337-9300

February 16, 2012
Statement No. 106848

Bassett Creek Water Management Commission

Sue Virnig
7800 Golden Valley Road
Golden Valley, MN 55427

Through January 31, 2012

BA295-00001	General	1,413.40
BA295-00034	Main Stem Restoration - Irving to Golden Valley Rd. 2012 CR	343.80
BA295-00036	Northwood Lake Wetland Dredging NL-2	525.25

Total Current Billing: 2,282.45

I declare, under penalty of law, that this
account, claim or demand is just and correct
and that no part of it has been paid.



Signature of Claimant

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

Bassett Creek Water
Sue Virnig

January 31, 2012

BA295-00001 General

Through January 31, 2012

For All Legal Services As Follows:

			Hours	Amount
1/3/2012	CLL	Proof and revise policy manual changes; work on email to K. Chandler	0.65	124.15
1/4/2012	CLL	Complete email on policy manual changes	0.40	76.40
1/6/2012	CLL	Review draft minutes; email to A. Herbert; exchange emails with K. Chandler on policy manual amendments	0.70	133.70
1/8/2012	CLL	Exchange emails with A. Herbert on agenda	0.15	28.65
1/10/2012	CLL	Phone call from A. Herbert regarding agenda	0.15	28.65
1/11/2012	CLL	Review agenda materials; revise policy manual handout and email to A. Herbert	0.70	133.70
1/19/2012	CLL	Prepare for and attend commission meeting	4.00	764.00
1/25/2012	CLL	Email to administrative committee regarding descriptions of funds in policy manual; make additional revisions to section 3.2.2.	0.65	124.15

Total Services: \$ 1,413.40

Total Services and Disbursements: \$ 1,413.40

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

Bassett Creek Water
Sue Virnig

January 31, 2012

BA295-00034 Main Stem Restoration - Irving to Golden Valley Rd. 2012
CR

Through January 31, 2012

For All Legal Services As Follows:

			Hours	Amount
1/6/2012	CLL	Check status of action on Main Stem Restoration Project; email to L. Eberhard regarding same	0.40	76.40
1/13/2012	CLL	Exchange emails with J. Clancy regarding Main Stem contract	0.25	47.75
1/18/2012	CLL	Exchange emails with M. Welch regarding Main Stem contract	0.40	76.40
1/19/2012	CLL	Email from M. Welch regarding contract with city	0.05	9.55
1/28/2012	CLL	Draft revisions to Main Stem contract to address issues raised by M. Welch	0.50	95.50
1/30/2012	CLL	Email revised Main Stem agreement to M. Welch	0.20	38.20
Total Services:			\$	343.80

Total Services and Disbursements: \$ 343.80

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

Bassett Creek Water
Sue Virnig

January 31, 2012

BA295-00036 Northwood Lake Wetland Dredging NL-2

Through January 31, 2012

For All Legal Services As Follows:

			Hours	Amount
1/18/2012	CLL	Phone call from K. Chandler regarding plan amendment process for NL-2-Northwood Lake Wetland Dredging; review BWSR rules relating to procedure	0.75	143.25
1/20/2012	CLL	Work on contract for feasibility report for NL-2	0.35	66.85
1/25/2012	CLL	Proof and revise agreement for feasibility report	0.20	38.20
1/26/2012	CLL	Exchange emails with K. Chandler; email to D. Ascher regarding agreement on feasibility report	0.30	57.30
1/27/2012	CLL	Phone call from D. Ascher regarding agreement on feasibility report; prepare revised and alternative forms for contract	0.75	143.25
1/31/2012	CLL	Revise and email two forms of feasibility report agreement to D. Ascher	0.40	76.40
Total Services:			\$	525.25

Total Services and Disbursements: \$ 525.25

ACE Drop-Off Catering

Invoice

VB Box 132
PO Box 9202
Minneapolis, MN 55480-9202
612/238-4016 ahooffer@damico.com

INVOICE #

51648

SHIP TO

Golden Valley City Hall-2nd Fl-Council Rm
7800 Golden Valley Road
Site Contact: Judy N 763/593-3991
PO#23270512008300
952/832-2652 fax: 832-2601

BILL TO

Barr Engineering
Amy Herbert
4700 W 77th Street
Edina, MN 55435-4803

P.O. NUMBER	TERMS		DELIVERY DATE	DAY	PPL	DELIVERY TIME
see above	Due on receipt		3/15/2012	Thursday	19	11 AM (10:45-11:15)

QUATY	DESCRIPTION	PRICE EA...	AMOUNT
19	Executive Wrap Buffet with the Sauce On the Side	12.45	236.55T
1	Vegetarian Asian Wrap with Napa Cabbage, Red Peppers, Scallions, Carrots, Sunflower Seeds with Sweet & Spicy Sauce on the Side	0.00	0.00T
5	Santa Fe Chicken Wrap with Black Beans, Sweet Corn, Shredded Cheese, Lettuce, Salsa and Chipotle Ranch Sauce on the Side	0.00	0.00T
5	Smoked Turkey Caesar Wrap with Chopped Romaine Lettuce, Parmesan Cheese and Caesar Dressing on the Side	0.00	0.00T
4	Roast Beef Fajita Wrap with Onions, Peppers, Cheddar Cheese and Chipotle Sauce on the Side	0.00	0.00T
4	Thai Chicken Wrap with Napa Cabbage, Peppers, Carrots, Scallions and a Spicy Peanut Sauce on the Side	0.00	0.00T
19	Gourmet Pasta Salad	0.00	0.00T
19	Seasonal Fresh Fruit	0.00	0.00T
19	Assorted Bars & Cookies	0.00	0.00T
1	Assorted Bars & Cookies-Dozen	18.00	18.00T
6	Mineral Water	1.25	7.50T
4	Lemonade	1.45	5.80T
15	Spring Water	1.00	15.00T
	Subtotal		282.85
	Delivery Charge	20.00	20.00T
	Metro Sales Tax	7.275%	22.03

Thank you for your business.

Total \$324.88

***Delivery charges do not include any tip or gratuity to the driver. They are used to defer the additional expense of vehicles, insurance, packaging and other items associated with making a delivery. Please make checks payable to "D'Amico Catering".

Reference the invoice # and delivery date on your check, unless paid by credit card.

Thank you for your business.

Agreed to by (customer)_____



CERTIFIED PUBLIC
ACCOUNTANTS

5353 Wayzata Boulevard • Suite 410 • Minneapolis, MN 55416
Telephone: 952-545-0424

MALLOY
MONTAGUE
KARNOWSKI
RADOSEVICH
& Co., P.A.
Fax: 952-545-0569

Ms Sue Virnig
Bassett Creek Water Management Commission
City of Golden Valley
7800 Golden Valley Road
Golden Valley, MN 55427

Invoice No. 30242

Date 01/31/2012
Client No. 6355

FOR PROFESSIONAL SERVICES

Progress billing for services completed through 01/31/2012 on audit of financial statements for the year ended 01/31/2012.

\$ 1,600.00

RECEIVED

FEB 08 2012

CITY OF GOLDEN VALLEY



Watershed Management Commission

3235 Fernbrook Lane Plymouth MN
55447

TO: Bassett Creek Watershed Management Commission
Elm Creek Watershed Management Commission
Shingle Creek Watershed Management Commission
West Mississippi Watershed Management Commission
Pioneer-Sarah Creek Watershed Management Comr

6-Mar-12

Re: 2012 WMWA General Expense

[illegible]

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 5A – Approval of 2012 BWSR Grant Agreement
BCWMC March 15, 2012 Meeting Agenda
Date: March 7, 2012
Project: 23270051 2012 003

5A. Approval of 2012 BWSR Grant Agreement

Recommendations:

- a. Approve the 2012 BWSR grant agreement, authorize chair to sign, and direct Barr to send signed application to BWSR.
- b. Direct recording administrator to add links to the BCWMC website for each of the BWSR grants.

Background

At their December 14, 2011 meeting, the Board of Water and Soil Resources approved FY 2012 Competitive Grants allocations. The allocations included \$217,500 in Clean Water Assistance grant funds to BCWMC for the 2012 Main Stem channel restoration project (Irving Ave to Golden Valley Rd). Staff received BWSR's Grant Agreement (see attached) for the 2012 Main Stem project. According to the email from BWSR staff accompanying the agreement, the BCWMC is to review the agreement and:

- Insert the grantee's Authorized Representative information on page 1 (*completed – added chair information*),
- Obtain an authorized signature on agreement (*Commission action required*)
- Send the agreement via U.S. Mail to Kari Keating at the BWSR Central Office.

The 2012 agreement is very similar to the 2011 grant agreement (Wirth Lake Outlet Modification project). The changes from the 2011 agreement include:

- Item 2.2.1 – only one progress report required per year, instead of two (August report dropped).
- Item 2.3 – new requirement regarding local match.
- Item 4.1 – payments will be in three installments (50%, 40%, 10%), instead of two installments (90% and 10%).
- Item 4.4 – new item that explains reason for advance payment of grant funds.

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 5A – Approval of 2012 BWSR Grant Agreement
BCWMC March 15, 2012 Meeting Agenda
Date: March 7, 2012
Page: 2
Project: 23270051 2012 626

- Item 6.2 – new provision added requiring execution of grant amendments prior to expiration of grant agreement.
- Item 12.2 – new item canceling grant funds in the event of a lawsuit.

Upon execution of the agreement, BWSR will provide a copy to BCWMC. However, before BWSR will sign/execute the agreement, the BCWMC must 1) complete a work plan, which must be approved by BWSR, and 2) add links to the BCWMC website for each of the BWSR grants (i.e., add three links), using the Clean Water Fund logo. Staff submitted a draft work plan to BWSR and is in the process of gaining BWSR approval of the work plan.

Although BWSR will make the first payment (50%) upon approval of the work plan and execution of the agreement, grant funds cannot be incurred or expended until execution of the agreement. Payment will be made in three installments (see item 4.1 in the Grant Agreement).

Important upcoming deadlines:

- March 30, 2012 Work Plan Approval Deadline
- April 30, 2012 Grant Agreement Execution Deadline

**STATE OF MINNESOTA
BOARD OF WATER AND SOIL RESOURCES
COMPETITIVE GRANTS PROGRAM
GRANT AGREEMENT
FY 2012**

This Grant Agreement is between the State of Minnesota, acting through its Board of Water and Soil Resources (Board), and Bassett Creek Watershed Management Commission, c/o Barr Engineering Co., 4700 West 77th Street, Edina, MN 55435.

Fiscal Agent: City of Golden Valley for Bassett Creek Watershed Management Commission

Project Number	Grant Description	Grant Amount
C12-226	Clean Water Assistance	\$217,500
TOTAL		\$217,500

RECITALS

1. Laws of Minnesota 2011, 1st Special Session, Chapter 6, Article 2, Section 7 appropriated Clean Water Fund (CWF) funds to the Board, and funds transferred to the Board from MDH, establish funding for the FY 2012 Competitive Grants Program.
2. Minnesota Statutes 103B.101, subd. 9 (1), and 103B.3369, authorize the Board to award this grant.
3. The Grantee has submitted a BWSR approved work plan for this Program which is incorporated into this agreement by reference.
4. The Grantee represents that it is duly qualified and agrees to perform all services described in this grant contract to the satisfaction of the State.
5. As a condition of the grant, Grantee agrees to minimize administration costs.

GRANT AGREEMENT

Authorized Representatives

The State's Authorized Representative is David Weirens, BWSR Land & Water Section Manager, 520 Lafayette Road North, Saint Paul, MN 55155, 651-297-3432, or his successor, and has the responsibility to monitor the Grantee's performance and the authority to accept the services and performance provided under this Grant Agreement.

The Grantee's Authorized Representative is **Ginny Black, Chair**
Bassett Creek Watershed Management Commission
c/o City of Plymouth
3400 Plymouth Blvd
Plymouth, MN 55447
763-509-5004

If the Grantee's Authorized Representative changes at any time during this grant contract, the Grantee must immediately notify the State.

1 Term of Grant Agreement

- 1.1 **Effective date:** March 1, 2012, or the date the State obtains all required signatures under Minn. Stat. § 16B.98, Subd.5, whichever is later. **The Grantee must not begin work under this grant contract until this contract is fully executed and the Grantee has been notified by the State's Authorized Representative to begin the work.**
- 1.2 **Expiration date:** December 31, 2014, or until all obligations have been satisfactorily fulfilled, whichever comes first.
- 1.3 **Survival of Terms:** The following clauses survive the expiration or cancellation of this grant contract: 7. Liability; 8. State Audits; 9. Government Data Practices; 11. Governing Law, Jurisdiction, and Venue.

2 Grantee's Duties

The Grantee is responsible for the specific duties for the Program as follows:

- 2.1 **Implementation:** The Grantee will implement the work plan, which is incorporated into this Agreement by reference.
- 2.2 **Reporting:** All data and information provided in a Grantee's report shall be considered public.

- 2.2.1 The Grantee will submit an annual progress report to the Board by February 1 of each year on the status of program implementation by the Grantee. Information provided must conform to the requirements and formats set by the Board.
- 2.2.2 Display on its website the previous calendar year's detailed information on the expenditure of these State grant funds and measurable outcomes as a result of the expenditure of these State grant funds according to the format specified by the BWSR, by March 15 of each year.
- 2.2.3 The Grantee will submit a final progress report to the Board by February 1 of 2015. Information provided must conform to the requirements and formats set by the Board.
- 2.3 **Match:** Ensure any local match requirement will be provided as stated in Grantee's approved work plan.

3 Time

The Grantee must comply with all the time requirements described in this Grant Agreement. In the performance of this Grant Agreement, time is of the essence.

4 Terms of Payment

- 4.1 Grant funds will be distributed in three installments: 1) 50% after execution of the Grant Agreement, 2) 40% after the first 50% has been expended and reporting requirements have been met, and 3) 10% after final requirements are met. Payments may be requested on a project or grant basis.
- 4.2 Any grant funds remaining unspent after the end of the expiration date stated above or after all obligations have been met will be returned to the Board within one month of that date.
- 4.3 The obligation of the State under this Grant Agreement will not exceed the amount stated above.
- 4.4 This grant includes an advance payment of 50 percent of the grant's total amount. Advance payments allow the grantee to have adequate operating capital for start-up costs, ensure their financial commitment to landowners and contractors, and to better schedule work into the future. Additional payments are predicated on, submission by the Grantee and approval by the Board, of required reports and invoices.

5 Conditions of Payment

All services provided by the Grantee under this Grant Agreement must be performed to the State's satisfaction, as set forth in this agreement and in the BWSR approved work plan for this program. Compliance will be determined at the sole discretion of the State's Authorized Representative and in accordance with all applicable federal, state, and local laws, ordinances, rules, and regulations. The Grantee will not receive payment for work found by the State to be unsatisfactory or performed in violation of federal, State, or local law.

6 Assignment, Amendments, and Waiver

- 6.1 **Assignment.** The Grantee may neither assign nor transfer any rights or obligations under this Grant Agreement without the prior consent of the State and a fully executed Assignment Agreement, executed and approved by the same parties who executed and approved this Grant Agreement, or their successors in office.
- 6.2 **Amendments.** Any amendment to this Grant Agreement must be in writing and will not be effective until it has been executed and approved by the same parties who executed and approved the original Grant Agreement, or their successors in office. Amendments must be executed prior to the expiration of the original agreement or any amendments thereto.
- 6.3 **Waiver.** If the State fails to enforce any provision of this Grant Agreement, that failure does not waive the provision or its right to enforce it.

7 Liability

The Grantee must indemnify, save, and hold the State, its agents, and employees harmless from any claims or causes of action, including attorney's fees incurred by the State, arising from the performance of this Grant Agreement by the Grantee or the Grantee's agents or employees. This clause will not be construed to bar any legal remedies the Grantee may have for the State's failure to fulfill its obligations under this Grant Agreement.

8 State Audits

Under Minn. Stat. § 16B.98, subd. 8, the Grantee's books, records, documents, and accounting procedures and practices of the Grantee or other party relevant to this Grant Agreement or transaction are subject to examination by the State and/or the State Auditor or Legislative Auditor, as appropriate, for a minimum of six years from the end of this Grant Agreement, receipt and approval of all final reports, or the required period of time to satisfy all State and program retention requirements, whichever is later.

- 8.1 The books, records, documents, accounting procedures and practices of the Grantee and its designated local units of government and contractors relevant to this grant, may be examined at any time by the Board or Board's designee and are subject to verification. The Grantee or delegated local unit of government will maintain records relating to the receipt and expenditure of grant funds.

8.2 The Grantee or designated local unit of government implementing this Agreement will provide for an audit that meets the standards of the Office of State Auditor. The audit must cover the duration of the Agreement Period and be performed within one year after the end of the Agreement Period or when routinely audited, whichever occurs first. Copies of the audit report must be provided to the Board if requested.

9 Government Data Practices

The Grantee and State must comply with the Minnesota Government Data Practices Act, Minn. Stat. Ch. 13, as it applies to all data provided by the State under this grant contract, and as it applies to all data created, collected, received, stored, used, maintained, or disseminated by the Grantee under this Grant Agreement. The civil remedies of Minn. Stat. § 13.08 apply to the release of the data referred to in this clause by either the Grantee or the State. If the Grantee receives a request to release the data referred to in this Clause, the Grantee must immediately notify the State.

10 Workers' Compensation

The Grantee certifies that it is in compliance with Minn. Stat. § 176.181, subd. 2, pertaining to workers' compensation insurance coverage. The Grantee's employees and agents will not be considered State employees. Any claims that may arise under the Minnesota Workers Compensation Act on behalf of these employees and any claims made by any third party as a consequence of any act or omission on the part of these employees are in no way the State's obligation or responsibility.

11 Governing Law, Jurisdiction, and Venue

Minnesota law, without regard to its choice-of-law provisions, governs this Grant Agreement. Venue for all legal proceedings out of this grant contract, or its breach, must be in the appropriate State or federal court with competent jurisdiction in Ramsey County, Minnesota.

12 Termination

- 12.1 The State may cancel this Grant Agreement at any time, with or without cause, upon 30 days' written notice to the Grantee. Upon termination, the Grantee will be entitled to payment, determined on a pro rata basis, for services satisfactorily performed.
- 12.2 In the event of a lawsuit, an appropriation from a Clean Water Fund is canceled to the extent that a court determines that the appropriation unconstitutionally substitutes for a traditional source of funding.

13 Data Disclosure

Under Minn. Stat. § 270C.65, Subd. 3, and other applicable law, the Grantee consents to disclosure of its social security number, federal employer tax identification number, and/or Minnesota tax identification number, already provided to the State, to federal and state tax agencies and state personnel involved in the payment of state obligations. These identification numbers may be used in the enforcement of federal and State tax laws which could result in action requiring the Grantee to file State tax returns and pay delinquent state tax liabilities, if any.

14 Prevailing Wage

It is the responsibility of the Grantee or contractor to pay prevailing wages on construction projects to which State prevailing wage laws apply (Minn. Stat. 177.42 – 177.44). All laborers and mechanics employed by grant recipients and subcontractors funded in whole or in part with these State funds shall be paid wages at rates not less than those prevailing on projects of a character similar in the locality.

15 Constitutional Compliance

It is the responsibility of the Grantee to comply with requirements of the Minnesota Constitution regarding use of Clean Water Funds to supplement traditional sources of funding.

16 Signage

It is the responsibility of the Grantee to comply with requirements for project signage, as provided in Laws of Minnesota 2009, Chapter 172, Article 5, Section 10, for Clean Water Fund projects.

IN WITNESS WHEREOF, the parties have caused this Grant Agreement to be duly executed intending to be bound thereby.

APPROVED:

Bassett Creek Watershed Management Commission

BY: _____

TITLE _____

DATE: _____

Board of Water and Soil Resources

BY: _____

TITLE: Land & Water Section Manager

DATE: _____

**COOPERATIVE AGREEMENT
FOR
PREPARATION OF A FEASIBILITY REPORT FOR THE
NORTHWOOD LAKE PROJECT NL-2 - DREDGE POND NB-07**

This Agreement is made as of this ____ day of _____, 2012, by and between the Bassett Creek Watershed Management Commission, a joint powers watershed management organization (hereinafter the “Commission”), and the City of Plymouth, a Minnesota municipal corporation (hereinafter the “City”).

WITNESSETH:

WHEREAS, the Commission adopted the Bassett Creek Watershed Management Commission Water Management Plan, July 2004 on September 16, 2004 (the “Plan”), a watershed management plan within the meaning of Minn. Stat. § 103B.231; and

WHEREAS, the Plan, as amended, includes in the Commission’s Capital Improvement Program (“CIP”) a Project referred to as Northwood Lake Project NL-2 – Dredge Pond NB-07 (the “Project”); and

WHEREAS, the Joint Powers Agreement for the Commission requires the preparation of a feasibility report for projects in its CIP; and

WHEREAS, the City is willing to prepare a feasibility report for the Project on the terms and conditions hereinafter set forth.

NOW, THEREFORE, ON THE BASIS OF THE PREMISES AND MUTUAL COVENANTS HEREINAFTER SET FORTH, THE PARTIES AGREE AS FOLLOWS:

1. The Project will consist of the Northwood Lake Project NL-2 – Dredge Pond NB-07.
2. The City will prepare a feasibility report for the Project (the “Report”) in accordance with the Request for Scope of Services attached hereto as Attachment One.
3. The Commission will reimburse the City for out-of-pocket costs incurred by the City in preparing the Report.
4. Reimbursement will not exceed the costs and expenses incurred by the City for preparation of the Report, less any amounts the City receives for preparation of the Report as grants from other sources.
5. All City books, records, documents, and accounting procedures related to the preparation of a Report are subject to examination by the Commission.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized officers on behalf of the parties as of the day and date first above written.

BASSETT CREEK WATERSHED
MANAGEMENT COMMISSION

By: _____
Its Chair

And by: _____
Its Secretary

CITY OF PLYMOUTH

By: _____
Its Mayor

And by: _____
Its Manager

ATTACHMENT ONE



REQUEST FOR SCOPE OF SERVICES

FOUR SEASONS MALL WATER QUALITY IMPROVEMENT PROJECT CITY PROJECT No. 11022

To provide a scope of services to the City of Plymouth for the development of a feasibility study for water quality improvements adjacent to and potentially including the Four Seasons Mall property which lies just west of Highway 169 and south of County Road 9 (Rockford Road) in the City of Plymouth.

PROJECT DESCRIPTION:

Northwood Lake lies east of Highway 169 in the City of New Hope and is listed as an impaired water by the State of Minnesota. Additionally, the Bassett Creek Watershed Management Commission (BCWMC) Watershed Management Plan includes a reduction of 73 pounds of phosphorus (14%) with a capital improvement project in this area. The City of Plymouth, in cooperation with the BCWMC propose to investigate best management practices to reduce phosphorus and total suspended solids (TSS) levels in Northwood Lake.

The goal of the Scope of Services is to demonstrate the Consultant's understanding of this project and to develop a feasibility study with alternatives to address the impairment of Northwood Lake to meet or exceed water quality improvement goals in the Four Seasons Mall area.

The City's 2012-2016 Capital Improvement Program (CIP) includes a project intended to improve water quality in the Four Seasons Mall area and the BCWMC CIP includes a similar project for 2013. A project is anticipated for construction from December 1, 2013 through July 1, 2014. There is potential for a partnership with the owners of the Four Seasons Mall property should the property be redeveloped or improved.

SCOPE OF SERVICES REQUIREMENTS:

Scope of Services Manager: The designated Scope of Services Manager and alternate for this project shall be:

SCOPE OF SERVICES MANAGER	SCOPE OF SERVICES ALTERNATE
Derek Asche	Doran Cote

Phone: 763-509-5526	Phone: 763-509-5501
Fax: 763-509-5510	Fax: 763-509-5510
dasche@plymouthmn.gov	dcote@plymouthmn.gov

Communications: All proposers will be given the same opportunity and access. All communications regarding this Scope of Services from consultants are restricted solely to the designated contacts listed above as the designated Scope of Services Manager or Scope of Services Alternate. This restriction will be in effect for consultants from January 24, 2012 through the Notice to Proceed or Award of Contract as granted by the City Council. Communications related to this Scope of Services during the proposal process with an employee or representative of the City other than the designated Scope of Services Manager or Scope of Services Alternate may result in the offending proposer being disqualified from further consideration. Communication with the City Manager and/or City Council is strictly prohibited without prior approval of the designated Scope of Services Manager or Scope of Services Alternate. Any such communication will result in the offending proposer being disqualified from further consideration.

Alternatives: To achieve the water quality improvement goals of the BCWMC, the Scope of Services must address the capacity of the consultant to complete a feasibility study including the following alternatives (see attached):

- A. Regional Water Quality Ponding improvements within basin NB07 and the impacts of wetland mitigation.
- B. Water Quality Ponding improvements in New Hope between Highway 169 & Northwood Lake.
- C. Alum Treatment in or adjacent to Pond NB07 including a system that could be a cooperative partnership with the Four Seasons Mall property owner.
- D. Wetland Restoration and Wildlife Habitat Improvement, including the potential for water quality improvements without wetland mitigation under Minnesota Rule 8420.0420 Subp. 9.
- E. Stream Restoration from Lancaster Lane to the west for approximately 1,500 feet.
- F. Flow Restriction at the outlet of pond NB07 to increase water quality treatment capacity of Pond NB07, reduce flow rates, and/or reduce the volume of flow.
- G. A partnership with the Four Seasons Mall property owners to meet both the goals of the BCWMC and the redevelopment requirements of the City of Plymouth for the Four Seasons Mall site.

The feasibility study shall require soil sampling and/or borings to ensure compliance with Minnesota Pollution Control Agency (MPCA) requirements for management of dredged materials. Additionally, to assist with alternative analysis and comparison of alternatives, P8 modeling and XP SWMM modeling for the Northwood Lake Watershed will be available from the BCWMC.

Time Frame: The Scope of Services shall be submitted to the designated Scope of Services Manager no later than February 16, 2012. The feasibility study shall be completed no later than July 15, 2012. Work on the feasibility study should be initiated within one (1) week of the contract approval and diligently performed thereafter. The proposed accomplishment dates will be monitored by the City to evaluate the Consultant's performance on the project.

Budget & Fees: The preliminary budget for this project is \$950,000 including feasibility study, design, engineering, administration, wetland mitigation, and construction. The proposal should indicate the total cost for services to draft the feasibility study. The proposal should include hourly rates for specific professional services. Payment of the Consultant fees will be made every thirty days upon receipt of a progress report and an invoice itemizing services performed and hours worked with the approved budget amount and requested payment to date.

Contract Responsibility: The City will prepare the necessary contractual agreement for this project. The Consultant may consider subcontracting portions of the feasibility study. However, any subcontractor shall be approved by the designated Scope of Services Manager. All subcontracts will be between the Consultant and the subcontractor and the only responsible party for the contractual fulfillment will be the Consultant. Qualifications and project experience must be submitted for any subcontractors proposed on this project.

Submission and Selection Procedure: Proposals shall be limited to 10 pages in length. Consultants interested in performing the professional services requested shall submit one copy of their proposal, no later than 1:00 P.M. on February 16, 2012, to:

Derek Asche, Water Resources Manager
City of Plymouth
3400 Plymouth Boulevard
Plymouth, MN 55447



AMLAC

Association of Medicine Lake Area Citizens

www.amlac.org

email: amlac@q.com

Nov 8, 2011

Dear Bassett Creek Watershed Management Commission:

The Association of Medicine Lake Area Citizens needs your help.

BACKGROUND: In July 2010, the Bassett Creek Watershed Management Commission presented information at a community meeting at the Medicine Lake City Hall regarding the dam at the outflow of Medicine Lake to Bassett Creek. While there were a number of citizens who came to the meeting, not everyone was there and we continue to receive questions about the dam structure. We find ourselves getting community pressure to increase the level of the lake.

REQUEST: We are asking the Commission to use the information presented in that meeting and create a document that addresses the issues in a factual manner. The document can be broadcast through AMLAC's communication channels and would, we feel, greatly help in reducing community pressure on the dam issue.

The most commonly-asked **QUESTIONS** include:

1. The AMLAC Board is questioned with "Could the level of the lake be higher and the dam changed to hold more water in the lake?" The Commission was first a flood control organization and now part of its mission is improving surface water quality. Can it be both flood control and usable recreation?
2. *Can more water be held back without putting homes at risk for flooding during large rain events using an adjustable spillway?* Would a change in the dam design help lake levels significantly during drought periods? We can all see that the edge of the water now is not even close to flowing into Bassett Creek.
3. Is there a liability issue for the BCWMC if the dam is changed and flooding occurs?
4. Does holding more water in the lake put the lake at risk for anything negative, such as more erosion or poor water quality?
5. Which homes are in the flood zone and could they be flood-proofed? Does flood-proofing necessarily mean a wall blocking the view from the home?

6. What are the dollar costs for changing the dam structure and potential flood proofing of affected homes?
7. Could you please provide us with the graphs on rainfall and evaporation and the description of the effects? Please address the concept of “bounce.”
8. Are the wet detention ponds providing flood control?
9. How do the size and development (impervious surface) of our watershed affect the volume of water coming into the lake?

Are there other risks, costs or benefits we should be aware of? There may also have been parts of Len Kremer’s presentation (at the community meeting in July 2010) about which we’ve forgotten to ask.

If there are other pieces that can help educate our residents, we will appreciate the whole picture. Any information you give us can be disseminated through AMLAC’s communication channels to your constituents.

Thank you very much for your assistance.

From the AMLAC Board of Directors:

Terrie Christian	Karen Berge	Kevin Christian	Bill Wixon
Holly Martin	Kip Leonard	Julie Rumsey	Diane Hulke
Jim Goetz	Graham Spall	Gary Holter	Tom Gallagher

AMLAC’s scope stretches to over 500 households in the Medicine Lake area.



Memorandum

To: Bassett Creek Watershed Management Commission
From: Technical Advisory Committee
Subject: March 1, 2012 Technical Advisory Committee Meeting
Date: March 7, 2012

The Technical Advisory Committee (TAC) met on March 1, 2012. The following TAC members, city representatives, BCWMC commissioners, and BCWMC staff attended the meeting:

City	TAC Members/Alternates	Other City Representatives
Crystal	Tom Mathisen	
Golden Valley	Jeff Oliver	Alternate Dave Hanson
Medicine Lake	Absent	
Minneapolis	Lois Eberhart Pat Byrne	
Minnetonka	Liz Stout	
New Hope	Chris Long	
Plymouth	Derek Asche	
Robbinsdale	Absent	
St. Louis Park	Laura Adler	
BCWMC Staff	Karen Chandler	
Also in attendance was Deb Pilger, Minneapolis Park and Recreation Board.		

The Technical Advisory Committee (TAC) forwards the following recommendations to the Commission for its consideration. This memorandum presents the recommendations relating to the annual review of the Commission's CIP and developing a draft five-year CIP for 2014 – 2018.

1. Annual CIP Review: Develop a Draft Five-Year BCWMC CIP for 2014 – 2018

The TAC reviewed the current BCWMC CIP approved by the Commission in 2011 and updated to include revised cost estimates and approved assessments (current CIP attached). The TAC discussed the remaining projects on the CIP and the member cities brought forward a number of new projects to add to the CIP. The TAC made the following recommended modifications to the BCWMC CIP (proposed year of implementation in parentheses):

- Add the Schaper Pond diversion project in Golden Valley per recommendation in recent feasibility study (2014).

- Add project to provide in-lake alum treatment of Twin Lake (2014).
- Add project to restore the remainder of the erosion problems along the Main Stem in Golden Valley, from 10th Ave. to St. Croix Ave (2015).
- Split projects BC-3, BC-5 and BC-7 into separate projects so they can be completed in different years. These projects are proposed water quality improvement sites in the Main Stem watershed. BC-3 (2017) and BC-7 (2014) are located in Golden Valley, and BC-5 (2015) is in Minneapolis.
- Replace project BC-8 with project BC-4 (2016). Both projects are proposed water quality improvement sites on Honeywell property in Golden Valley. Project BC-4 is the current Honeywell Pond site.
- Add project to restore the erosion problems along the Main Stem in Minneapolis near Irving Ave (TBD).

The TAC made preliminary recommendations for the five-year CIP schedule (as shown above), but a definite schedule could not be developed due to questions about the estimated costs of a number of the projects. As a result, the TAC wishes to review their preliminary recommendations at their April 5 meeting so they can make a final recommendation for the Commission's April meeting.

The TAC recommended that the CIP document note those projects that will require a minor or major plan amendment. This will allow for the Commission and member cities to plan accordingly.

The TAC also discussed the City of Medicine Lake's suggestions contained in their February 29, 2012 letter (see attached). In general, the city's suggestions were for the Commission to provide more information about the projects and to show the completed and proposed CIP projects on a map. The TAC agreed with most of the city's suggestions.

Recommendations

1. The TAC recommends that the Commission direct the TAC to review its preliminary CIP recommendations at the April 5 TAC meeting, and make a final CIP recommendation for the Commission's April meeting.
2. The TAC recommends that the Commission direct staff to include in the CIP table whether a minor or major plan amendment is needed.
3. The TAC recommends that the Commission:
 - Create a budget document per the Financial Reporting Subcommittee recommendations (from August 9, 2011 subcommittee meeting). In addition to any budget/financial

information, the budget document would include a summary description about the project. (Note: the document could incorporate the project descriptions from the Commission's Resource Management Plan.) To move this initiative forward would likely require the re-activation of the Financial Reporting Subcommittee.

- Prepare a map of completed and proposed Commission CIP projects, to be included in the BCWMC annual report and on the BCWMC website. This could be similar to Figures 8 and 9 in the BCWMC watershed management plan.
- Prepare a summary table of the completed and proposed CIP projects; information could include project location, project costs, total phosphorus removal, etc. This could be a table similar to Table 12-2 in the BCWMC watershed management plan, with the inclusion of additional information.

2. Next TAC Meeting

Next TAC meeting: April 5, 2012. Agenda items include:

1. Further develop and recommend a 5-year CIP for the years 2014 – 2018
2. Review the member cities' post-construction best management practices requirements (including project review triggers), and continue discussion of needed changes to water quality policies pertaining to nutrient loading increases and a water quality banking/trading program.
3. Discuss the Next Generation Watershed Management Plan.

Future TAC meeting agenda items to be determined.

Current Bassett Creek WMC Capital Improvements Program

Revised February 23, 2012

Year	Project Description	Project Number	Estimated Cost	Proposed Assessment
2010	Restore Main Stem Channel, Crystal Border to Regent Ave.-Golden Valley/Crystal	2010CR	\$636,000 ¹	Approved Assessment ¹¹
2010	Restore Plymouth Creek, Medicine Lake to 26 th Ave-Plymouth	2010CR	\$965,000 ²	Approved Assessment ¹²
2011	Restore Main Stem Channel, Duluth St. to Crystal Border-Golden Valley	2011CR	\$580,200 ³	Approved Assessment ¹³
2011	Restore North Branch, 36 th Ave to Bassett Creek Park-Crystal	2011CR	\$834,900 ³	Approved Assessment ¹⁴
2012	Schaper Pond Enhancements, Feasibility Study – Golden Valley	SL-1	\$37,000 ⁴	\$37,000 – 2011 ¹⁵
2012	Wirth Lake Outlet Modification (TMDL Implementation Project) – Golden Valley	WTH-4	\$180,000 ⁵	Approved Assessment ¹⁶
2012	Restore Main Stem Channel, Irving Ave to Golden Valley Road-Minneapolis & Golden Valley	2012CR	\$856,000 ⁶	Approved Assessment ¹⁷
2012	Sweeney Lake Outlet Replacement – Golden Valley	FC-1	\$250,000 ⁷	\$0 – 2012 ¹⁸
2013	Dredge Pond NB-07, Northwood Lake Watershed-Plymouth	NL-2	\$943,000 ⁸	\$943,000-2013
2013	Lakeview Park Pond Medicine Lake Watershed – Golden Valley	ML-8	\$196,000 ⁹	\$150,000 – 2013 \$46,000 – 2014
2014	Main Stem Watershed Ponding Areas-Golden Valley	BC-8	\$285,000 ¹⁰	\$285,000 – 2014
2015	Main Stem Watershed Ponding Areas-Golden Valley-Minneapolis	BC-3,5,7	\$1,300,000 ⁸	\$1,100,000-2015 \$200,000-2016
2016	Construct Ponds NB35A,B,C and 29A,B, Northwood Lake Watershed -New Hope	NL-1	\$595,000 ⁸	\$595,000-2016
2016	Restore Plymouth Creek, 37 th Ave to 26 th Ave-Plymouth	2016CR	\$559,000 ⁸	\$300,000-2016 \$259,000-2017
2017	Divert Lancaster Lane Storm Sewer Northwood Lake Watershed—Plymouth	NL-3	\$59,000 ⁸	\$59,000-2017

¹ August 2009, *Feasibility Report for Bassett Creek Restoration Project*

² July 2009, *Feasibility Report for Plymouth Creek Restoration Project*, current City of Plymouth estimate, \$770,000

³ September, 2010, *Feasibility Reports for Channel Restoration*

⁴ Cost update per February, 2011 Commission action

⁵ July, 2011 *Feasibility Report for the Wirth Lake Outlet Modification Project*

⁶ June, 2011, *Feasibility Report for the 2012 Bassett Creek Main Stem Restoration Project, Golden Valley Road to Irving Avenue North*

⁷ Bassett Creek CIP, 2010 Cost Update

⁸ Bassett Creek CIP, 2008 Cost Update

⁹ June, 2011 update to August, 2004 *Lakeview Park—Proposed Water Quality Pond* feasibility study

¹⁰ Bassett Creek CIP, 2011 Cost Update

¹¹ Approved 2010 assessment \$34,800, and approved 2011 assessment \$286,300; balance funded from grants and reserves

¹² Approved 2010 assessment \$902,462, balance funded from reserves

¹³ Approved 2011 assessment \$160,700; balance funded from reserves

¹⁴ Approved 2011 assessment \$415,400, balance funded from reserves

¹⁵ Funded from reserves

¹⁶ Approved 2012 assessment \$83,111; \$21,889 funded from reserves; balance (\$75,000) funded through BWSR Clean Water Fund grant

¹⁷ Approved 2012 assessment \$678,599; balance (\$177,101) funded from reserves

¹⁸ To be funded using flood control project long term maintenance funds



City of Medicine Lake

10609 South Shore Drive • Medicine Lake, Minnesota 55441 • (763) 542-9701 • (763) 746-0142 fax

February 29, 2012

Mr. Len Kremer
Commission Engineer
Bassett Creek Watershed Management Commission
7800 Golden Valley Road
Golden Valley, MN 55427

RE: Bassett Creek Watershed Management Commission's *Watershed Management Plan* Capital Improvements Program Annual Review

Dear Mr. Kremer:

On behalf of the City of Medicine Lake, I have reviewed the provided BCWMC Watershed Management Plan Capital Improvements Program (CIP) as revised February 23, 2012. As the City was notified in your letter of February 23, member cities have six days under which they may review and provide comment back to the Commission (comments due February 29). Given this short deadline, the Medicine Lake City Council does not have sufficient time to review or discuss this CIP schedule as a regular agenda item before one of its monthly meetings. Members of the Council may support or object to some of the Commission's proposed projects, but I can not speak on their behalf. However, I do not anticipate any objections to the proposed at this time.

I would like to offer a couple of suggestions for future notification that may help City officials better understand the CIP. Metropolitan Water Management Program, Minnesota Statutes 103B.205, Subd. 3 provides the following definition of Capital Improvement Program:

Subd. 3. Capital improvement program. "Capital improvement program" means an itemized program for at least a five-year prospective period, and any amendments to it, subject to at least biennial review, setting forth the schedule, timing, and details of specific contemplated capital improvements by year, together with their estimated cost, the need for each improvement, financial sources, and the financial effect that the improvements will have on the local government unit or watershed management organization.

One item that seems not to be addressed in the provided schedule is a determination of "the need for each improvement." I would envision an attachment that, for each line item, would restate briefly the project description and explain what specific goals from the Watershed Management Plan will be met by execution of the proposed project. Does the project attempt to achieve a flood control goal? Does the project reduce phosphorous/nutrient loading to meet a goal of an adopted TMDL implementation plan? How will completing the project meet water quality improvement, flood protection, ground water protection or other related goals of the Commission? What is the estimated financial benefit to the watershed for completion of such a project? These might be

some of the questions answered in determining a given need for each improvement. You'll find a similar description of line items created for the Commission's annual budget.

Likewise, an attached watershed map of completed and proposed CIP locations would also be helpful. Elected officials need to visualize not only where the planned work is located but also the scope of the project. A \$1,300,000 project is certainly not equal to a \$59,000 project. A visual understanding of where and to what extent dollars flow into each CIP would help officials create a clear and more certain understanding of how tax dollars are yielding value for tax payers. You might achieve this by indicating proportional color-coded and numbered "dots" on a watershed map, larger ones representing larger expenditures, smaller ones equalling smaller expenditures, different colors representing the different years for which projects are planned, work-in-progress or have already been completed.

I hope you find these suggestions friendly and helpful. Confidence in the execution of any project is rooted in a clear understanding of need and benefit. Please share these observations with members of the Technical Advisory Committee.

Sincerely,

A handwritten signature in black ink, appearing to read "Ted Hoshal". The signature is fluid and cursive, with the first name "Ted" being more prominent than the last name "Hoshal".

Ted Hoshal
BCWMC, Commissioner, Medicine Lake

cc Mayor Mary Anne Young, Medicine Lake

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 6E – Bassett Creek Restoration Project: Wisconsin Avenue to Crystal Border (2011 CR)
Golden Valley
BCWMC March 15, 2012 Meeting Agenda
Date: March 7, 2012
Project: 23/27 051 2012

6E. Bassett Creek Restoration Project: Wisconsin Avenue to Crystal Border (CIP-2011 CR): Golden Valley

Summary

Proposed Work: Stream bank restoration

Basis for Commission Review: Staff requests BCWMC review of CIP 2011 CR

Change in Impervious Surface: None

Recommendation: For Discussion

General Background & Comments

The City of Golden Valley has presented plans for the Bassett Creek Restoration Project: Wisconsin Avenue to Crystal Border. The proposed work includes stabilization of a total of approximately 7,700 feet of stream bank, including approximately 2,100 feet between Wisconsin Avenue and Rhode Island Avenue; approximately 1,400 feet immediately upstream of St. Croix Avenue; and approximately 4,200 feet from Duluth Street to the Crystal border. CIP-2011 CR includes the reaches from Wisconsin Avenue to Rhode Island Avenue and from Duluth Street to the Crystal border. The reach upstream of St. Croix Avenue is proposed to be paid for through a combination of contributions from the Channel Maintenance Fund, City of Golden Valley, and landowner cost share.

The BCWMC prepared a feasibility study for this project in September 2010. The feasibility study focused on implementation of a variety of natural/bioengineering techniques including biologs, cross vanes, j-vanes, live stakes, live fascines, and vegetated reinforced soil slope (VRSS). Riprap toe protection was recommended at specific locations where stream velocities or site conditions required armoring.

The proposed plans submitted for review by the City include stream bank stabilization methods generally consisting of riprap and stone toe protection. Work also includes installation of new catch basins and storm sewer that will capture and redirect uncontrolled concentrated parking lot runoff that has contributed to some of the erosion.

Commission staff reviewed plans and prepared letters of response on November 10, 2011 and February 7, 2012 regarding the project. Staff's review letters primarily recommended that the design

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6E – Bassett Creek Restoration Project:
Wisconsin Avenue to Crystal Border (2011 CR) – Golden Valley
Date: March 7, 2012
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Project: 23270051 2012 621

be modified to more closely match the bioengineering techniques identified in the feasibility study. Several project concerns regarding plan details were also noted in the letters. Commission staff met with City staff and the City's design engineer on February 27, 2012 to discuss the proposed work and stabilization approach. A revised plan set was submitted on March 1, 2012 that addressed the general plan details; however, the stabilization approach consisting of riprap and stone toe protection (in lieu of the bioengineering techniques identified in the feasibility study) was not changed. The City of Golden Valley provided the following reasons for deviating from the stabilization plan recommended in the feasibility study:

1. Most of the proposed work is located on private property; therefore access to the creek is limited. Access to the creek is being granted through the use of temporary easements, and access for future maintenance and/or additional stabilization work (should new erosion problems develop) will necessitate new temporary easements to gain access to the creek.
2. Some adjacent landowners, whose property the creek runs through, are opposed to soft armoring techniques, due to concerns about maintenance that may be required of the landowner and/or allowing access for an extended maintenance and establishment period (bioengineering techniques typically require a three-year maintenance period as part of the construction contract).
3. In some areas, immediate stabilization is desired where the tree canopy would limit the use of vegetative methods.

The revised drawings incorporated some features such as live stakes and native grass seeding in riprap to provide screening and a natural look.

Floodplain

The proposed work will not impact the 100-year floodplain elevation.

Wetlands

Streams and a portion of stream banks are often considered to be wetlands; therefore work in a stream typically requires a permit to impact the wetland. Stream bank stabilization work is typically considered to be a temporary, self-mitigating wetland impact that provides long-term benefits.

Stormwater Management

The site is in the Bassett Creek Main Stem watershed. The project will include installation of catch basins and short lengths of storm sewer that will discharge to Bassett Creek. This feature of the project will capture uncontrolled parking lot runoff but will not impact the hydrology of the drainage area.

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6E – Bassett Creek Restoration Project:
Wisconsin Avenue to Crystal Border (2011 CR) – Golden Valley
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Water Quality Management

Since there is no increase in impervious surface as a result of this project, incorporation of water quality treatment or BMPs is not required for this site. Sump manholes are included in the project for grit removal.

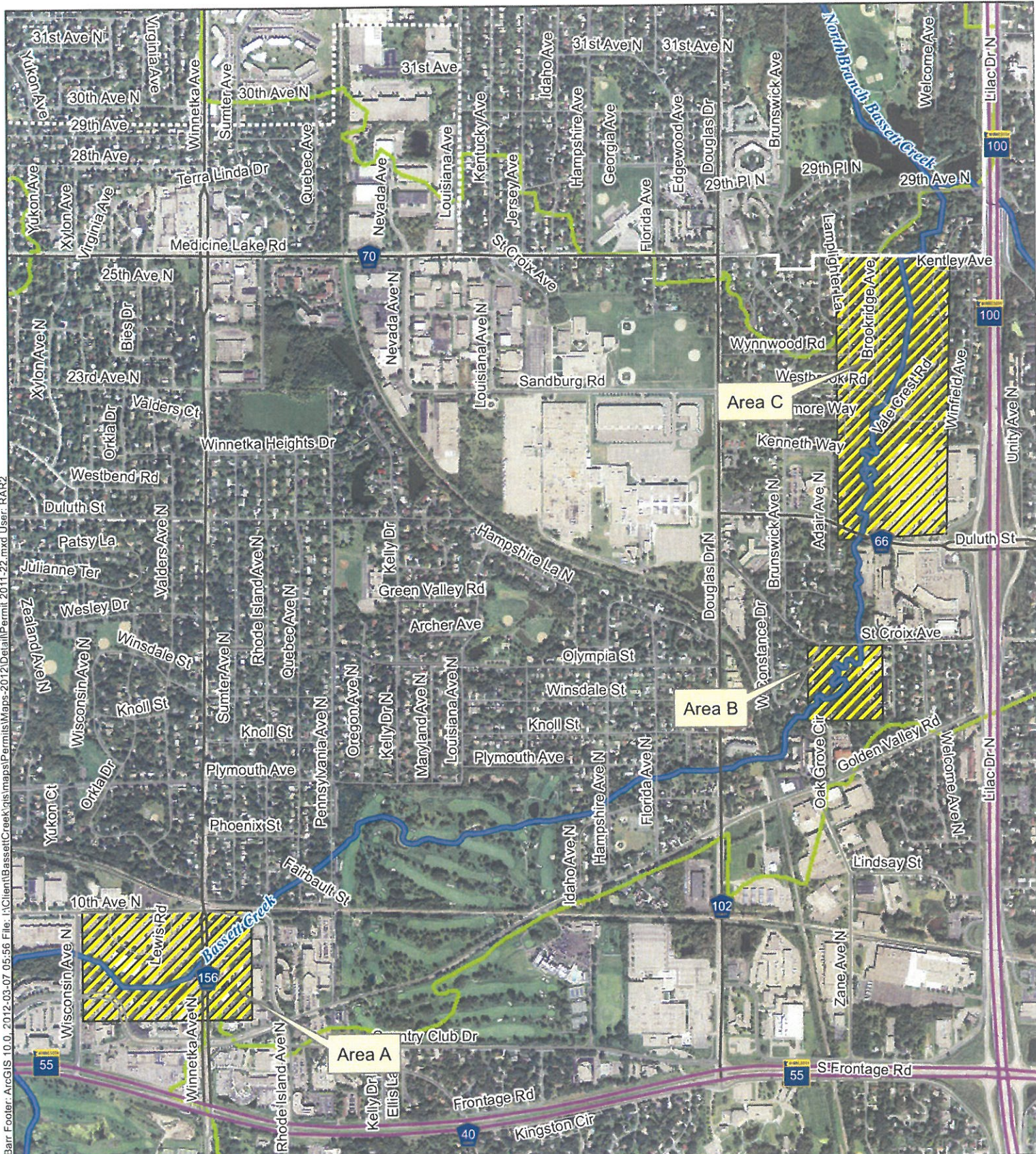
Erosion and Sediment Control

Temporary erosion control features include silt fence surrounding the area to be graded and silt curtain within the creek banks. Silt curtain will be placed at the embankments and downstream of the construction limits to intercept sediment transport.

Recommendation

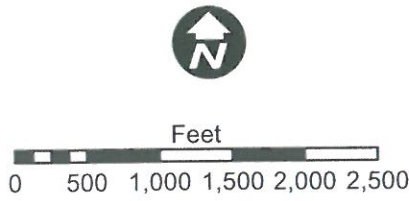
For discussion. Staff requests the BCWMC to review and approve the project since the proposed work deviates from the approved feasibility study. Staff reviewed the technical features of the project and have the following comments should the BCWMC find the City's proposed approach to be acceptable.

1. Placement of riprap must not result in a decrease of channel cross section.
2. Design of outlets should be in accordance to BCWMC requirements to address high outlet velocities.
3. We recommend increasing the sump depth to four feet for improved performance. Sump manholes must be maintained and inspected at least twice a year. We also recommend the city consider installing SAFL Baffles at each sump for increased treatment efficiency.



Barr Footer: ArcGIS 10.0, 2012-03-07 05:56 File: I:\Client\BassettCreek\GIS\maps\Permits\Maps-2012\Detail\Permit 2011-22.mxd User: RAR22

- Permit Location
- Bassett Creek
- WMC Boundary
- Major Subwatershed
- Municipality
- Stream



LOCATION MAP
APPLICATION 2011-22
Bassett Creek Restoration Project
Wisconsin Ave to Crystal Border (2011 CR)
Golden Valley, MN

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Agenda Item 7G – Next Generation Watershed Management Plan: Review of TAC-Identified Issues and Discuss Next Steps in the Planning Process
February 16, 2012 Meeting
Date: February 8, 2012
Project: 23270051 2012 403

7G. Next Generation Watershed Management Plan: Review of TAC-Identified Issues and Discuss Next Steps in the Planning Process

Recommendations:

1. Review TAC-identified next generation plan issues
2. Discuss next steps in the next generation planning process, including Commission identification of additional issues

Background

At the January 19, 2012 Commission meeting, the TAC recommended that all of the TAC-identified issues be compiled and provided to the Commission for their review and feedback at the February 16 Commission meeting. The TAC further recommended that the Commission identify any additional issues. The Commission decided to include the next generation plan issues on the agenda for the February 16 meeting, including a discussion regarding how to proceed with the planning process.

This memo summarizes the topical issues included in the five questionnaires completed by the BCWMC TAC between August 2010 and February 2012. The purpose of the questionnaires was to identify issues that should be included in the formal planning process for the next generation plan.

The time periods, topic areas and respondents for each of the four questionnaires include:

Questionnaire #1: 8/27/10 – 9/2/10

- Public education and involvement
- Erosion and sediment control

Respondents: Golden Valley, Minneapolis, MPRB, Minnetonka, New Hope, Plymouth and St. Louis Park

Questionnaire #2: 10/18/10 – 10/27/10

- Flood and rate control
- Funding

Respondents: Golden Valley, Minneapolis, MPRB, Minnetonka, New Hope, Plymouth and St. Louis Park

Questionnaire #3: 11/30/10 – 12/6/10

- Groundwater
- Planning process
- Public ditches

Respondents: Golden Valley, Minnetonka and New Hope

Questionnaire #4: 1/18/11 – 1/28/11

- Public education and involvement
- Water quality
- Wetlands

Respondents: Golden Valley and Plymouth

Questionnaire #5: 12/21/11 – 2/6/12

- BCWMC/City evaluation, accountability and enforcement
- BCWMC/City responsibilities
- Other issues identified from TAC meetings since June 2010
- New issues raised by members in the survey

Respondents: Golden Valley, Medicine Lake (Commissioner Hoshal responded in the absence of their TAC member), Minneapolis, Minnetonka, New Hope, Plymouth, Robbinsdale and St. Louis Park.

The following summary is organized by topic. At the end of each topic area, Barr's "take away" on the topic is stated in italics. Specific member responses are included in the attached tables. Table 1 includes the responses to Questionnaires 1 – 4 and Table 2 includes the responses to Questionnaire 5. Two tables were developed due to the different formats used in Questionnaires 1-4 and Questionnaire 5.

Public Education and Involvement (includes responses from Questionnaires #1 and #4)

Respondents felt that these programs are working. There seems to be some support among members for expanding these programs, subject to funding, especially to support the many new challenges facing the

organization. There are watershed-wide issues that affect many topic areas that could be addressed by additional public education efforts. Some suggestions for public education include:

- NPDES and Met Council load restrictions (now TMDL)
- Citizen concerns regarding the value of water quality studies vs. improvement projects
- Concerns of citizens living adjacent to lower priority water bodies

Some members felt that the BCWMC should take the lead on educational efforts, including developing materials that could meet the NPDES requirements of all members. Others felt that the cities should take the lead as they are the responsible party. In this situation, it was suggested that the BCWMC could establish performance benchmarks for evaluating member activities. Current levels of funding appear to be acceptable. It was also suggested that the plan address the criteria for and purpose of advisory groups and public information programs. Some respondents requested that member roles regarding public education and involvement be further clarified.

In general, it appears that there is an opportunity for a greater partnership between the BCWMC and members in developing educational programs and materials. Additional work is needed to identify the specific areas of public educational needs and how a greater partnership would work and be funded.

Erosion and Sediment Control

Respondents indicated that existing plan goals and policies remain sound and are supported by the individual city local water management plans. Responsibility for inspecting ongoing development projects is clear. However, some feel that there is duplication of erosion inspections on development projects where BCWMC is responsible for project review (both the city and BCWMC inspect). Others like this oversight by the Commission because it helps maintain consistency among all members.

One important change in this topic area includes clarifying responsibility for removing sediment deltas in Bassett Creek and in lakes. One member suggested that if deltas are related to CIP projects, creek restoration, or contribute to a flooding issue then they could be addressed by the Commission. Otherwise, cities should be responsible and use channel maintenance funds for delta removal. Additionally, the Minneapolis Park and Recreation Board and the City of Golden Valley requested that their roles and that of the BCWMC be clarified, especially in dealing with delta sedimentation.

The next generation plan should clarify roles and funding for addressing sediment deltas in Bassett Creek and in lakes. Reviewing the inspection function and responsibility for conducting erosion inspections may also be helpful.

Flood and Rate Control

Members are aware of localized flooding issues and feel these are individual city responsibilities. Members are also aware of intercommunity drainage issues. One member indicated that the JPA is a good starting point for dialogue between cities dealing with joint flooding concerns.

Modifications to existing flood control systems doesn't appear to be a high priority. Members indicated that current methods are working. However, the issue should be continuously reviewed and opportunities to incorporate flood control objectives with other projects should be monitored.

Members expressed concern about the difference between the BCWMC "management envelope" (flood levels) and FEMA flood elevations. One member indicated that there were significant variances between the two. In general, members felt that it was important to continue monitoring proposed changes to FEMA flood maps.

Members expressed divergent concerns regarding quantifiable goals and policies. Some feel local water management plans are adequate. Others feel that existing quantifiable goals should remain but be reviewed for applicability. Some members identified specific flooding issues that need resolution. One member referred to MPCA and volume control through infiltration and abstraction BMPS. Others were not clear on what quantifiable goals and policies meant and requested that the TAC clarify this issue.

The issue of stormwater quantity and quality impacts on recreation and wildlife was discussed by most respondents. Some indicated that this issue would be affected by TMDL implementation plans. Some would like to see the BCWMC CIP to include wildlife enhancements. Others want a better understanding of the issue. The MPRB was especially concerned with pollutant effects on biota and vegetation in and around the creek. It was suggested that greater monitoring of this issue was needed.

The City of Minneapolis requested that members consider the following three issues:

- Determine effectiveness of plan implementation over past five years and assess past priorities.
- Members should implement the BCWMC's development policies
- Determine whether rate control should be a BCWMC-required development policy

Clarifying quantifiable goals and policies will be an important task for the next generation plan. The relationship between volume control and water quality may need to be further described. Strengthening and or quantifying policies around volume control as it relates to flooding and water quality may need to be considered.

Funding

Respondents feel that current methods of funding capital improvement projects are working well. One member wanted more clarification around the issue of "structural solutions to problems that cannot be mitigated by regulatory programs or preventative programs." The ability to access outside sources of funds (private or public grant dollars) is working well. One member suggested pursuing constitutional amendment funds. Another indicated that the Commission should continue to research funding options for cities.

Members supported the idea of analyzing the financial impact that regulatory controls have on cities. Cities have limited funding to implement additional mandates. One member indicated that financial impact analyses used in TMDL implementation plans should continue.

To: Bassett Creek Watershed Management Commission
Subject: Agenda Item 7G – Next Generation Watershed Management Plan: Review of TAC-Identified Issues and Discuss Next Steps in the Planning Process
February 16, 2012 Meeting
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Page: 5

In general, existing methods of funding projects is satisfactory. The planning process could examine the financial impacts of proposed BCWMC policies on member cities.

Groundwater

Members felt that existing policies were adequate and that the best role for the Commission was to support existing agencies that are responsible for groundwater management. The key role of the Commission is to encourage responsible infiltration. One member suggested that the Commission review proposed discharges to surface waters for negative impacts (e.g. volume reduction requirements in non-degradation plans). Respondents indicated that more information was needed about the content of the Hennepin County Groundwater Plan.

The main issue is to review the content of the County Groundwater plan for implications on existing and potential new Commission policies.

Planning Process

Responses varied regarding better defining Commission and city responsibilities for plan implementation. One member felt that this was clear; if it is not an intercommunity issue then it is the city's responsibility. Another felt more clarification was needed. Here, responsibility depends on the issue and could vary among the Commission, the cities and residents.

Support for the development of quantifiable goals for all water management topics is unclear. Respondents seem comfortable with quantifiable goals when applied to water quality issues. One member indicated that quantifiable goals should be left to the TMDL process. Another indicated support for quantifiable goals but that they should consider specific water body conditions, be realistic and be based on public support. There was no mention of quantifiable goals being applied to other water management topics.

In terms of documenting and assessing water resource related problems, one member felt that these were individual city responsibilities. Another emphasized public processes to address these issues.

Respondents strongly support an annual review of the CIP.

Roles and responsibilities for plan implementation need clarification. This could be explored in individual water management topic issue analyses and be reflected in the implementation program. The planning process should also explore the meaning of and need for "quantifiable" goals for each water management topic. While the Commission currently conducts an annual review of the CIP, the plan could be revised to document this process.

Public Ditches

No significant issues were identified.

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Water Quality

Respondents felt that many of the water quality issues listed in the survey were already being addressed in other ways such as through TMDLs, non-degradation plans, NPDES permits and existing MPCA requirements.

Defining maintenance activities and responsibilities is one issue that needs more clarification according to one respondent. Another member indicated that new maintenance responsibilities should be discussed in terms of cost to the members.

Respondents offered divergent views on the issue of classifying streams based on physical and/or ecological criteria. One member said this does not appear to be an issue and another said this had been done by others. It's not clear that any stream classification using ecological criteria has been completed.

Respondents indicated that discussing quantifiable goals and policies was important in the planning process. Members stated that while quantifiable goals and policies exist, they have been ignored. One member suggested that the Commission assess whether specific plans exist to meet individual goals.

One member did not feel that expanding water quality monitoring in lakes and streams was a current issue due to TMDLs. However, members also indicated that developing water quality monitoring programs or partnerships with other agencies was important. TMDL studies will require on-going monitoring, and collaborating and organizing will be important for implementation.

Members felt that including a public land inventory to identify opportunities for BMP retrofits was the responsibility of individual cities. One member mentioned that Hennepin County has already completed an inventory.

An important part of the planning process should be to clarify how water quality issues are being managed and who or what process is responsible for addressing them. Additionally, the process should allocate specific time to discuss quantifiable water quality goals and policies and methods for achieving them. Regarding the classification of streams using ecological criteria, this will be addressed in future TMDLs. Since major reaches of the creek have been classified as impaired for biota, future TMDL implementation plans will classify reaches based on physical or ecological characteristics. Plan development should incorporate information from the public land inventory/survey completed by Hennepin County. The plan should also address maintenance responsibilities for water quality management facilities constructed as part of the commission's CIP. Water quality monitoring program and partnerships that build on the existing schedule of rotating monitoring efforts should also be explored.

Wetlands

Respondents indicated that quantifiable goals and policies as well as functional and values assessments are local issues.

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One respondent requested further clarification regarding the adequacy of existing regulatory controls and programs. Another indicated that existing controls are adequate and that water quality monitoring should be used to verify adequacy.

Respondents stated that identifying natural resource and wetland restoration/preservation sites should be funded by the Commission if they are listed in the next generation plan. Otherwise, this issue should remain a local responsibility.

There is some support for city adoption of requirements for wetland buffers. One city has done this already. Another member could support for new development only.

The main issue in this area is to include discussion in the planning process around the BCWMC's role regarding wetland issues. Additionally, support for stronger requirements for creating buffers during development activities should be assessed.

BCWMC/City Evaluation, Accountability and Enforcement

All respondents indicated support for quantifiable goals and policies for each plan topic area (e.g. water quality, recreation, wetlands, etc.). Some members stated that the goals and policies should be developed with the new MS4 requirements and TMDLs in mind. One member suggested the Commission develop and use specific metrics to help assess management efforts and for setting goals and policies.

All members support the BCWMC's role in monitoring the success of water quality and quantity management programs. The existing monitoring program is considered adequate but the TMDL component of water quality monitoring should be discussed further. A couple of members suggested developing a program to monitor the effectiveness of water quality and quantity BMPs.

There is some disagreement regarding the Commission's role concerning plat review and construction site inspections to verify that goals are being met. Some feel that this is a basic function of the BCWMC. Others stated that the individual cities should be solely responsible for project disturbances under one acre. One member emphasized that the WMC should not be involved in construction site inspections. Another member would like the Commission to inspect government road salt storage facilities. Those facilities with concentrated runoff should be flagged and, if corrections are not made, reported to the MPCA.

Members expressed divergent opinions concerning identifying enforcement procedures for violations of controls delegated to the cities by the Commission. Some suggested that enforcement procedures be formalized with reporting back to the BCWMC. Others stated that enforcement procedures are already included in city ordinances and that this current approach is working fine.

All members support identifying methods for measuring success and for revising strategies over time. Ideas vary on how this should be accomplished. One member suggested that the WMC look at developing a long-term schedule for reviewing future items, which could be done every two years before the CIP meeting. Another member stated that WMC programs for monitoring BMP success should be developed.

Another re-iterated that success should be defined by meeting water quality goals and one suggested using decision management science tools for evaluating CIP strategies.

Members indicated support for an ongoing Technical Advisory Group (TAG), but expressed concern with additional layers of “advisory” management. One member stated that the TAG should be limited to local staff. Others felt that having three advisory groups (technical, citizen and policy) only made sense for new plan development, not for day-to-day Commission business. Others indicated that the Commission, being both citizens and policy makers, fulfills the roles of both citizen and policy advisory groups.

All members are very supportive of establishing responsibilities for monitoring and evaluation programs. One member stated that development and operation of these programs would be more effective and economical if operated by the WMC.

There is broad agreement that the members and the WMC work together to establish quantifiable goals and policies for each topic area and to monitor them for success. This is especially important to align WMC goals with those in the new MS4 permits and TMDLs. The key challenge will be in developing goals or metrics that can be cost effectively measured.

BCWMC/City Responsibilities

Most members felt that assessing the affects of growth and development identified in local comprehensive plans should remain a city land use issue. One member stated that (once developed) the BCWMC’s watershed models for water quality and flood control will provide this assessment. One respondent felt that growth and development metrics from local plans could be useful for assessing the Commission’s management efforts.

All members indicated that BMP assessments are covered in each city’s SWPPP. Involvement of the BCWMC in this activity was seen as duplication and not supported by most of the respondents. One member suggested that each city submit their annual SWPPP report to the WMC for review.

Members are satisfied with the existing approach to reviewing local controls and programs (e.g. those outlined in the city local water management plans). This review is currently conducted as part of the Commission’s review of local water management plans. Others stated that controls and programs are included in approved SWPPPs. One member stated that while uniformity of local controls should be a goal, local controls and programs are ultimately a local decision. It was suggested that the Commission track individual city controls and programs.

Most members do not support BCWMC review of the administrative and financial ability of members to adopt and enforce controls and programs (as outlined in the local water management plans). These reviews are done by the individual cities during their CIP reviews, local water management plan update processes and MS4 permitting processes. One member suggested that the Commission track local controls and programs, including expenditures, as another management metric.

Respondents feel that the current approach for determining responsible parties for streambank erosion and maintenance is working.

Other than TMDL studies, most members feel that it is not the BCWMC's responsibility to implement NPDES Phase II requirements. One member suggested that the BCWMC could provide support and another suggested that the Commission create a tracking worksheet to document what cities are doing.

There appears to be some resistance to BCWMC identifying regulatory controls that the Commission delegates to the cities for enforcement. One member felt that this issue should be evaluated. Most felt that this was a local responsibility. There may be some confusion over the type of regulatory controls referred to in this issue. One member assumed that erosion controls were the issue and another mentioned stormwater controls. One member explicitly stated that more clarity was needed regarding who is responsible for what issue.

Efforts to clarify responsibilities in these areas will be useful. Most members are comfortable with the existing division of responsibilities between the cities and the Commission; there is little support for increasing responsibility and oversight by the Commission in these topic areas.

New Issues since June 2010

Members are generally open to discussing maintenance policies for flood control facilities during the plan update process. Some members indicated that existing policies are adequate but felt that they warrant discussion. Another member stated that major and routine maintenance should be defined. Another member felt that city maintenance will likely become more involved with the new MS4 permit. It was also suggested that the TAC recommendations for the seven maintenance issues (discussed at the March 18, 2010 Commission meeting) be formalized into policy.

Members suggested a number of policy ideas for addressing maintenance of water quality facilities that should be discussed during the plan update process. These include uniformity in pond dredging, buffer strips, algae growth control, vegetation management, contaminants of emerging concern, aquatic invasive species, groundwater interactions and structural repair. Responsibility and requirements of the new MS4 permit related to these issues should also be part of the discussion.

There is very little interest in implementing a water quality trading program that would support policy changes requiring no net increase in phosphorus. While one member expressed support, most cited the lack of market demand and administrative complexity for their lack of interest in this topic.

There are divergent opinions regarding the establishment of abstraction or infiltration requirements to address water quality concerns. On one side, members indicated that this is likely to be a requirement in the new MS4 permit and any BCWMC efforts would be premature and duplicative. Some felt that this requirement should be left to the discretion of the cities. Alternatively, some members are open to the idea depending on soil types. One felt that this should be a critical component in the Commission's effort to improve water quality.

All respondents feel that the current project review triggers are appropriate. Some are open to discussing this topic during the plan update process including guidance for smaller residential projects and installation of grit chambers. One member mentioned that review fees are too high.

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Members offered suggestions for criteria to be used in prioritizing CIP projects within the eight categories of projects. One member said priorities should remain flood control and water quality. Other criteria mentioned include best return on investment, compliance with TMDLs, condition of receiving water, cost, and number of cities benefitting. One member mentioned that the current collaborative process used by the BCWMC and the TAC works well and should continue to be used. One suggestion included the use of decision management science tools to prioritize CIP projects.

Of the new issues identified since June 2010, discussion of maintenance policies for flood control and water quality facilities should be included in the plan update. These items have a broad basis of support. Infiltration and abstraction requirements could also be discussed within the context of new MS4 permit requirements. This discussion could help the BCWMC align its water quality goals with MPCA/MS4 goals.

New Issues Identified in Survey

Four new issues were raised by members in the survey:

One issue concerns the desire for BCWMC to streamline rules and regulations. With various agencies developing new and different requirements/strategies for meeting water quality goals, there will be confusion and difficulty in meeting various requirements from federal/state/regional/local jurisdictions.

Another issue raised was improving the financial documents prepared by BCWMC.

Another member is encouraging the Commission to modernize its watershed map. The Commission has created and relied upon a watershed map that does not clearly show and designate all public waters, public wetlands, public ditches, stormwater management ponds and structural capital improvement projects of the watershed. An online map that allows the user to identify all such waterbodies in a layered application would be helpful in the oversight of public improvements created on behalf of the Commission, its member cities and other public entities. The Commission should prioritize these revisions as the updated map will aid development of the Next Generation Plan.

The last new idea supports a formal policy for aquatic invasive species (AIS) and contaminants of emerging concern (CECs). The Commission has yet to formalize a policy for if and how certain pending impacts to the environmental health and function of the watershed and its improvements will be addressed. The Commission will likely face public pressure to fund or otherwise manage AIS and CECs very soon. An understanding of the Commission's role in containment, maintenance, or other management of possible impacts (and funding considerations) should be made prior to or part of the 2013 budget discussions.

Table 1: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaires 1 - 4

Issue	Major Issue Topic	Issue Description	Is it still an issue?	Is in not an issue?	Was issue but has been resolved	Current methods of addressing issue (e.g., city/BCWMC policies, actions, etc.) are working	Current methods of addressing issue are not working	Comments
1	Education & Public Involvement	Prepare an annual written communication describing the activities of the watershed	X-GV/Ply/Mtka	X-NH		X-StLP/MPRB/Mtka/Mpls/Ply/GV-sometimes		NH-Depending on funding capabilities, continue or possibly expand BCWMC's current goals and policies in the 2nd Generation Plan regarding Education and Public Involvement. MPRB-Current Ed. methods are working. MTKA-Ed. should be large part of new plan. Most of the issues facing the WMO will require a lot of public involvement and education is a cornerstone. There are a lot of "global issues" that the BCWMC should take the lead on. GV-Need to educate public on what a healthy water body is-Need to involve Commission engineer.
2	Education & Public Involvement	Identify who will fund public education and involvement	X-GV/Ply/Mtka	X-NH/Mpls/GV		X-StLP/Mtka/Ply		NH-With the cities having the opportunity to review the annual assessments, the current funding through the Administrative Budget is acceptable. MTKA- Cities should be resp. for pub. Involve because they are the responsible party. If the BCWMC has any concerns about the city's process, they could set up benchmarks that have to be met. GV-BC should partner w/cities to provide info on watershed-wide issues. Need more project specific info. PLY-Further clarification of roles needed.
3	Erosion & Sediment Control	Define Commission and city responsibilities in carrying out the implementation program.	X-Ply/GV/MPRB	X-Mpls	X-NH/GV	X-StLP/Mtka/GV/Ply		NH-Defining the responsibilities, developing implementation programs, and setting goals and policies for Erosion & Sediment Controls are now pretty much accomplished through the individual cities' updated Surface Water Management Plans. As was suggested in the 2nd Generation Plan, these new Surface Water Management Plans have been reviewed and accepted by the BCWMC. MPRB-What is our role? Can it be defined in the next Plan? MTKA-Not an issue, we have staff that inspect ALL constr. sites. GV-Watershed oversight is helpful-keeps consistency among 9 cities and backs up local authority. Cities need to be notified immediately of erosion issues.
4	Erosion & Sediment Control	Develop an implementation program to resolve problems, issues and goals.	X-MPRB/Ply	X-StLP/Mpls	X-NH/GV	X-Mtka/GV/Ply/GV		NH-As above PLY-CIP process is in place. MTKA- Current method of dealing with inspection funding is fine, no issues.

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5	Erosion & Sediment Control	Include quantifiable goals and policies that address erosion control	X-MPRB/Ply	X-StLP/Mpls/GV	X-NH	X-Mtka		NH-As above. <u>PLY</u> -Not sure quantifiable goals good for MS4 permit compliance. <u>MTKA</u> -All of the E&S control goals and policies from the 2004 plan are good long-term goals and they match up with the goals the city has identified in its WRMP.
6	Erosion & Sediment Control	Determine responsibility for addressing sediment deltas in Bassett Creek (e.g. Wirth Park)	X-StLP/MPRB/GV/Ply	X-NH/Mpls/Ply		X-Mtka		NH-We feel that, for the most part there, is a consensus on who is responsible for sediment delta removals. For clarity, a policy stating and documenting the responsibilities for delta removals could be included in the Erosion & Sediment Control section of the 3rd Generation Plan. <u>MTKA</u> -If deltas are related to CIP projs, creek restoration, or contribute to a flooding issues then they could be addressed by district. If random sedimentation then cities should be responsible & cities should use Channel Maint. funds for delta removal. <u>GV</u> -MPRB and city need to work to ID issues and solutions in Wirth Park. <u>PLY</u> -Will BC fund delta removal? How about deltas in lakes? Should this be watershed issue? <u>MPRB</u> -Erosion still a problem in the Mpls portion of the channel.
7	Erosion & Sediment Control	Identify inspection responsibilities for ongoing development	X-MPRB/Ply/Mtka	X-NH/Mpls/GV		X-StLP/Mtka/GV		NH-With the cities' individual NPDES permit responsibility, consider having the cities responsible for all inspections. <u>MTKA</u> - City has insp. Staff for all projects, not a big deal. Need baseline of before project and monitoring "success." <u>GV</u> -Local responsibility with oversight by Commission. <u>Ply</u> -Duplication of effort in Plymouth.
8	Flood & Rate Control	Include quantifiable goals and policies that address water quality (typo, should have been quantity) issues.	X-Mpls/GV/MPRB/Ply			X-GV/Mtka/NH/SLP		<u>MPLS</u> -Issue description is unclear, further discussion at TAC is requested. <u>GV</u> -1 home in floodplain/homes have sustained flood damage/levees not inspected/many homes do not receive the "free board" req'd by FEMA & local ordinances. <u>MTKA</u> -Continue with quantifiable goals, but review for applicability <u>MPRB</u> -Install backflow preventer to Wirth Lk. per TMDL Implementation plan. Ensure that any loss in storage does not exacerbate existing flooding. <u>NH</u> -Local Water Mgt Plans adequate to address this issue. <u>PLY</u> -MPCA volume issue. Infiltration and abstraction BMPs.

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9	Flood & Rate Control	Address issues of low homes in Golden Valley and Crystal.	X-GV/NH	X-Mtka		X-GV/SLP		<u>MPLS</u> -Not applicable <u>MPRB</u> -No defined role in JPO/Erosion an issue in Mpls channel. <u>GV</u> -see above. <u>NH</u> -Aware of issues for homes in GV south of Med. Lk. Rd. <u>MTKA</u> -Not applicable to us.
10	Flood & Rate Control	Address modifications needed to existing flood control system to optimize performance.	X-Mpls/GV		X-Mtka	X-GV/NH/SLP		<u>GV</u> -Needs continuous review. <u>MTKA</u> -Not a high priority, however, if opportunities arise to incorp. Flood control objectives w/other projects, they should be done. <u>NH</u> -Current methods working.
11	Flood & Rate Control	Address intercommunity drainage issues.	X-GV/NH	X-Mtka		X-SLP	X-GV	<u>GV</u> -New Hope, Crystal, & GV - Medicine Lake Road. <u>MTKA</u> -Not an issue, the JPA is good starting point for dialogue between cities. <u>NH</u> -Example: Crystal, NH, GV's stormwater runoff impact on GV neighborhoods So. of Med. Lk. Rd.
12	Flood & Rate Control	Tabulate the relationship of the Commission's management envelope and any information published in a Federal Emergency Management Agency flood insurance study.	X-Mpls/GV/Mtka/PLY			X-PLY/SLP	X-GV	<u>GV</u> -Being revised, found instances where the two have significant variances. <u>MTKA</u> -Remain a high priority for watershed, watershed must keep on top of/participate in FEMA FIRM updates. No one wants FEMA map changes to adversely affect cities. <u>NH</u> -Clarify issue discription. <u>PLY</u> -New FEMA maps in 2004?
13	Flood & Rate Control	Assess flooding and stormwater rate control; effects of stormwater quantity and quality on recreation and wildlife; the adequacy of capital improvement programs to address management of water quality.	X-Mpls/GV/MPRB/PLY			X-Mtka/NH/SLP		<u>GV</u> -Want better understanding of issue. <u>MTKA</u> -Currently identified programs, projects and upcoming TMDL Implem. Plans will provide CIP proj's long into future. <u>MPRB</u> -How and IF monitoring efforts should be increased, an upcoming issue regarding PAH's, E. Coli & pesticide contaminants.. Impacts of rate and volume on creek thru Minneapolis. Impacts of stormwater and pollutants on biota and vegetation in & around the creek. Effects of extreme events on the creek, flood control, rate control and bank restoration. Monitoring coordination (MPRB, TRPD, BCWMC, MCES, MnAG) seems to be working. <u>NH</u> -Current methods working/taking into consideration avail. funding. <u>PLY</u> -Expand CIP to include wildlife enhancements? <u>MPLS</u> -Seems this should be an on-going issue.

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14	Funding	Analyze the financial impact of the implementation of regulatory controls and programs on cities and identify possible sources of funds.	X-Mpls/GV/MPRB/Ply	X-NH		X-Mtka/SLP	X-GV	GV-Mandates keep increasing/limited city funding. MTKA-Should continue and be std. part of all TMDL Implem. Plans. MPRB-Consider a partnership in TALU rules process since BC has long record of biomonitoring.
15	Funding	Evaluate financing of capital improvement projects.	X-Mpls/GV/Ply	X-NH		X-GV/Mtka/Ply/SLP		PLY-Current method works but there is some question with Hennepin County. MTKA-The current system seems to work fine.
16	Funding	Investigate the feasibility of structural solutions to problems that cannot be mitigated by regulatory programs or preventive programs. Prepare cost estimates and funding recommendations and assign priorities for each structural solution.	X-Mpls			X-Mtka/NH/SLP		GV-Want better understanding of issue. MTKA- The current CIP process works very well.
17	Funding	Identify outside sources of funds and outside partners for implementing projects.	X-Mpls/GV/Ply			X-GV/NH/SLP		GV-Commission needs to continue to research funding options for member cities. PLY-Constitutional amendment funds should be pursued. MTKA-This is working very well.
18	Funding	Establish a process to access private or public grant monies.	X-GV/Ply			X-Mtka/NH/SLP	X-GV	MTKA-This is working very well.
19	Flood & Rate Control	Determine effectiveness of implementation of plan over last five years and determine where evident past priorities need to change	X-Mpls					MPLS added this issue for discussion.
20	Flood & Rate Control	The Member cities must implement the BCWMC's development policies	X-Mpls					MPLS added this issue for discussion.Mpls is interested to know if any other members think this is an important issue.
21	Flood & Rate Control	Should rate control be one of the issues mentioned in the development policies?	X-Mpls					MPLS added this issue for discussion.Mpls is interested to know if any other members think this is an important issue.
22	Groundwater	Determine the degree of involvement BCWMC will have in groundwater management.						GV-Inform and refer role. State agencies (MPCA and MDH) working on this.NH-For the most part, continue with the seven policies in the Commission's current Watershed Management Plan. Encourage member cities to support and adhere to other agencies current and future groundwater protection plans/programs. MTKA-BCWMO should have very little involvement in groundwater management. This is handled adequately by several other agencies. BCWMO should encourage infiltration in responsible areas. Infiltration should only be an option where it is appropriate and responsible.

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23	Groundwater	Meet County Groundwater Protection Plan requirements (Plan currently unapproved).						<u>GV</u> -Need more information. <u>MTKA</u> -We aren't sure exactly what the County Plan requirements are. This item may need further discussion.
24	Groundwater	Reference pollutant sources mentioned in County Groundwater Plan.						<u>GV</u> -Need more information. <u>MTKA</u> -This isn't a responsibility of the district
25	Groundwater	Determine BCWMC role in review and approval of projects that pump groundwater and discharge to surface waters.						<u>GV</u> - Typically, being managed by local organization/agencies. Support adopted policies. <u>MTKA</u> -Groundwater appropriations are already regulated by the DNR. Discharges to surface water should require review for negative impacts especially if they conflict with the volume reduction requirements in many cities' non-degradation plans.
26	Groundwater	Consider support of new county groundwater protection plan effort/ and/or support of DNR observation well monitoring.	X-GV					<u>MTKA</u> -There isn't a useful way for the commission to actively support the DNR's observation well monitoring program.
27	Planning Process	Define Commission's and cities' responsibilities in carrying out the implementation program.						<u>GV</u> -Already done. <u>NH</u> -At this point, our understanding is that the planning process organizational structure and the planning process flowchart were going to be significantly reduced. (Possibly more of a review and updating of the 2nd Generation Plan). <u>MTKA</u> -We don't know what this item is referring to. Some clarification is needed.
28	Planning Process	Include quantifiable goals and policies that address water quantity, water quality, recreation, fish and wildlife, enhancement of public participation, groundwater, wetlands, and erosion control.	X-GV					<u>NH</u> -We are already required to establish goals and policies by state statute in Local Surface Water Management Plans. It is preferred that "quantifiable goals and policies" be left to the TMDL process. <u>MTKA</u> -Quantifiable goals should be included in the new plan, however these goals need to be realistic for the district and take into account the specific conditions of each individual water body. We know more public input will be required. let s figure out how to do it!
29	Planning Process	Request and summarize relevant water management policies and goals of local, regional, and state review authorities identified in Minnesota state statutes.	X-GV					<u>NH</u> -The cities have already completed much of this in their recently updated Local Surface Water Management Plans. The Commission could possibly take the lead and recommend that goals should be the same for all nine cities.
30	Planning Process	Tabulate water resource-related problems and seek comment.	X-GV					<u>NH</u> -Where it is not an intercommunity problem, we believe this is the individual city's responsibility. <u>MTKA</u> -Public process is important. Both city and resident comments should be sought and addressed as necessary.

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31	Planning Process	Assess water resource-related problems identified by residents, cities, regional, and state agencies.	X-GV					NH-These problems/issues should go back to the city that issued the permit and inspected the project (or should have issued the permit and inspected). <u>MTKA</u> -Same response as #30.
32	Planning Process	Develop an implementation program to resolve problems, issues, and goals.	X-GV					NH-Where it is not an intercommunity problem, we believe this is the individual city's responsibility. <u>MTKA</u> - It isn't the commission's job to solve every problem; it depends on the issue. The commission can identify or acknowledge issues but the responsibility for correcting the issues may lay with the commission, member cities, or with residents. Keep an integrated and ecological approach with the big picture in mind
33	Planning Process	Develop a schedule for implementation of controls or programs by the Commission or cities.	X-GV					NH-By state statute the city has to implement official controls within two years of adoption of the Local Surface Water Management Plan. In addition, the implementation of storm water related programs is required as part of their MS4 permit.
34	Planning Process	Review plan amendment procedures.	X-GV					NH-For New Hope and maybe a few other cities, it would be nice if the plan amendment process was the same for both Bassett Creek and Shingle Creek watersheds. <u>MTKA</u> -Plan amendment procedures are for the most part laid out by BWSR.
35	Planning Process	Create an annual or biannual cycle to review and update the Capital Improvement Plan						NH-Annual. <u>MTKA</u> -There should be an annual review of the CIP. The commission should formalize a procedure and set an annual schedule.
36	Public Ditches	Review the possibility of managing the ditch systems in the watershed.						<u>MTKA</u> -What are the benefits to the commission in managing the ditch systems? Would managing/owning the ditches make the commission an MS4? Certainly key to all else that is decided!
37	Public Education & Involvement	Include quantifiable goals and policies that address enhancement of public participation						<u>GV</u> -The Commission focus should be on producing materials that can be used by all cities as part of NPDES permits.
38	Public Education & Involvement	Develop a watershed education program relative to NPDES and Met Council load restrictions						<u>GV</u> -The Commission focus should be on producing materials that can be used by all cities as part of NPDES permits.
39	Public Education & Involvement	Participate in educational programs (such as WOMP, CAMP, and the Citizen Stream Monitoring Program)						<u>GV</u> -These programs should continue.

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Issue	Major Issue Topic	Issue Description	Is it still an issue?	Is in not an issue?	Was issue but has been resolved	Current methods of addressing issue (e.g., city/BCWMC policies, actions, etc.) are working	Current methods of addressing issue are not working	Comments
40	Water Quality	Assess lake and stream water quality; effects of stormwater quantity and quality; impact of land-use practices on water quality and quantity; the adequacy of capital improvement programs to address water quality.						GV-Still an issue, but water quality standards in current plan and TMDLs have refined the goals. We need to simplify the issue description. <u>Ply</u> -City non-degradation plans, where applicable, contain this information. Assessment of CIP's must consider financial constraints and available grants. TMDL and future watershed assessments required by the MPCA may address these issues as well.
41	Water Quality	Assess or require local plans to assess the following: need for and frequency of parking lot sweeping; need for and frequency of stormwater outfall, sumps, and pond inspections; adequacy of maintenance programs for flood control and stormwater facilities; need for spill containment; and the need for other management programs. The entity responsible for implementing these requirements must also be decided.						GV-Much of this is in NPDES Permits. Other maintenance issues need to be better defined. <u>Ply</u> -If a program is to be developed for monitoring the frequency of parking lot sweeping, the cost for the sweeping and enforcement should be clear. MPCA already requires inspection of all facilities on a 5 year timeframe. Spill containment is mandated by the State.
42	Water Quality	Include quantifiable goals and policies that address water quality and recreation, fish, and wildlife issues.						GV-Already in place. We need to determine if we have developed plans to meet goals. <u>Ply</u> -These issues are worth discussion as they have been more or less ignored in the past.
43	Water Quality	Develop a water quality monitoring program or partner with other agencies that may be monitoring streams, lakes, etc.						GV-TMDL studies will require monitoring. Continue with existing partnerships. <u>Ply</u> -Organizing and/or collaborating in this area is extremely important.
44	Water Quality	Include a public land inventory to document opportunities for BMP retrofits.						GV-City responsibility <u>Ply</u> -Hennepin County completed a survey similar to what this issue is proposing
45	Water Quality	Address Medicine Lake issues.						GV-The TMDL study has addressed these issues. <u>Ply</u> -Covered with current TMDL.
46	Water Quality	Address citizen concerns regarding BCWMC emphasis on water quality studies instead of improvement projects.						GV-No longer appears to be an issue: CIP, TMDL improvement plans, etc. <u>Ply</u> -Citizen concerns could be handled with education.
47	Water Quality	Develop a watershed education program relative to NPDES and Met Council load restrictions.						GV-See comments 37-41 <u>Ply</u> -This could be part of education. Not sure what the Met Council load restrictions are.
48	Water Quality	Identify appropriate BMPs to buffer the effects of impervious land cover.						GV-This issue description needs to be clarified.
49	Water Quality	Address criteria for, and purposes of, advisory groups and public information programs.						GV-This issue description needs to be clarified. <u>Ply</u> -This would be good for discussion. Could be part of education

Table 1: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaires 1 - 4

Issue	Major Issue Topic	Issue Description	Is it still an issue?	Is in not an issue?	Was issue but has been resolved	Current methods of addressing issue (e.g., city/BCWMC policies, actions, etc.) are working	Current methods of addressing issue are not working	Comments
50	Water Quality	Require Commission or Cities to perform water quality compliance assessments.						GV-Required by NPDES permits and has been significantly addressed by TMDL studies. <u>Ply</u> - There could be many reasons for non-compliance...should be careful with this.
51	Water Quality	Address regional park issues.						GV-Still an issue. <u>Ply</u> -Why? What are they?
52	Water Quality	Evaluate benefits of classifying streams based on a physical and/or ecological classification system.						GV-This does not appear to be an issue in this watershed. <u>Ply</u> -This has been done by others...first order, second order streams. Or Hennepin County Natural Resources Inventory.
53	Water Quality	Address concerns of citizens living adjacent to lower priority water bodies.						GV-Needs clarification. Public education issue?
54	Water Quality	Coordinate city and agency water quality monitoring efforts.						GV-Yes. <u>Ply</u> -Important.
55	Water Quality	Evaluate need for expanded water quality monitoring in lakes and streams.						GV-May not be a current issue due to TMDLs. Monitoring programs should also be discussed as part of budgets. <u>Ply</u> -Possibly rotating schedule.
56	Wetlands	Include quantifiable goals and policies that address wetlands.						GV-WCA/local plans address this issue.
57	Wetlands	Include an inventory of the functional value of wetlands, a provision to create the inventory within a set timeframe or adopt a process to identify the functional values on a case-by-case basis for the review of the project proposals for those cities where the Commission is the LGU.						GV-This should be addressed in local plans. <u>Ply</u> -WCA required the completion of Functions and Values Assessments years ago.
58	Wetlands	Address the adequacy of existing regulatory controls to minimize impacts on public waters and wetlands; the adequacy of existing programs to preserve and maintain the value of natural storage systems; the adequacy of capital.						GV-Issue clarification is needed. Does this mean Commission regulations that are more restrictive than DNR/WCA and other agencies? <u>Ply</u> -Water quality monitoring should be used to determine this. Existing controls may be adequate.
59	Wetlands	Identify potential natural resources restoration sites.						GV-Good idea, but if these projects are in Bassett Creek plan, they should funded by the Commission. <u>Ply</u> -Similar to #44. Natural Resources Inventory has been completed by Hennepin County.
60	Wetlands	Identify high priority areas for wetland preservation, restoration, and establishment.						GV-See Comment 59. Local issue. <u>Ply</u> -Same as comment for #59
61	Wetlands	Include a wetland function and values assessment.						GV-See Comment 59. Local issue. <u>Ply</u> - Already required by WCA. Completed in Plymouth in 1994.

Table 1: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaires 1 - 4

Issue	Major Issue Topic	Issue Description	Is it still an issue?	Is in not an issue?	Was issue but has been resolved	Current methods of addressing issue (e.g., city/BCWMC policies, actions, etc.) are working	Current methods of addressing issue are not working	Comments
62	Wetlands	Identify potential open space sites for restoration of stream, wetland, and upland habitat.						GV-See Comment 59. Local issue. Ply-Part of CIP and TMDL processes.
63	Wetlands	Adopt requirements for, or require cities to adopt, requirements for wetland buffers.						GV-Support for new development, but not retroactive. Ply-This has been done in Plymouth but should be up to the discretion of each City. Water quality goals and standards have been set, mostly by MPCA. Flexibility should be maintained in how Cities meet those goals.
64	Wetlands	Assess BCWMC's role regarding wetland issues.						GV-Yes. Ply- BCWMC is LGU if the City requests it.
65	Wetlands	Identify individual cities' wetland controls, ordinances, inventories, and classifications.						GV-Yes. Ply-This is done in City's Comprehensive and/or local surface water management plans

Table 2: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaire 5

Issue	Major Issue Topic	Issue Description	Comments
1	BCWMC/City Evaluation, Accountability, Enforcement	Develop quantifiable goals and policies that address water quantity, water quality, recreation, fish and wildlife, enhancement of public participation, groundwater, wetlands, and erosion control	<u>GV</u> -This item is the basic function of BCWMC and these goals must be in plan. BCWMC should assess the areas of enforcement and accountability as part of this process. <u>SLP</u> - No Concerns. <u>NH</u> -Quantifiable goals and policies should be developed with new MS4 requirements in mind. <u>Mtka</u> -The WMC should review the current goals and policies and continue to update them to reflect any TMDLs. <u>Ply</u> -Align goals for simplicity. <u>ML</u> -(abbrev.) The Commission should develop a set of metrics specific to our watershed that can help us gauge our improvement efforts. This could include changes in population, demand for ground water, changes in impervious surface, quantity of road salt applied, etc. Our measurements of these types of metrics and how they change over time will help frame how we set goals and policies to address those stated.
2	BCWMC/City Evaluation, Accountability, Enforcement	Develop a plan for monitoring the success of water quality and quantity management programs and improvements	<u>GV</u> -Still an issue. <u>SLP</u> - No Concerns. <u>NH</u> -Monitoring program by the WMC for the effectiveness of BMPs should be developed. <u>Mtka</u> -The current program is adequate but the TMDL component of WQ monitoring should be discussed further. This should remain a budget priority. <u>Ply</u> -Yes, BCWMC. <u>ML</u> -Failure to carefully examine and evaluate the degree to which structural CIPs improve or enhance water quality and quantity management programs means the Commission is on a path to repeat projects that may not be cost effective or environmentally beneficial. Those who do not examine the past are condemned to repeat it.
3	BCWMC/City Evaluation, Accountability, Enforcement	Assess Commission's role to review (plat review, construction site inspections, etc.) and verify that goals are being met	<u>GV</u> -This item is the basic function of BCWMC and these goals must be in plan. BCWMC should assess the areas of enforcement and accountability as part of this process. <u>SLP</u> - No Concerns. <u>NH</u> -Individual cities responsible for disturbances under 1-acre, with permit review by the WMC for disturbances 1-acre or larger. WMC should not be involved in construction site inspections. <u>Mtka</u> -The commission only looks at larger project where more scrutiny is welcome. We don't have any issues. <u>Ply</u> -Use monitoring data. <u>Robbinsdale</u> -I still wonder why Member Cities have to pay a review fee for CIP works. <u>ML</u> -(abbrev.)The Commission should consider the inspection of government and commercial road salt storage facilities. Concentrated runoff from salt storage facilities should be flagged by the Commission and failure to follow-up with corrections referred to the MPCA for further action.
4	BCWMC/City Evaluation, Accountability, Enforcement	Identify enforcement procedures for violations of controls delegated to the cities by the Commission.	<u>GV</u> -Needs to be formalized with reporting back to BCWMC. <u>SLP</u> - We'd like more information on this as we develop it, specifically what the cities' responsibilities will be. <u>NH</u> -Enforcement procedures are already included in city ordinances. <u>Mtka</u> -Everything seems to be working. If there is an issue, contact the city and work through their process. <u>ML</u> -I think Commissioner Welch once mentioned one of our weaknesses is that the Commission lacks the authority to penalize anyone or prevent a project from proceeding. I think the Commission's role needs to be revisited in light of cities' efforts to carefully manage their MS4 and SWPPP permits.
5	BCWMC/City Evaluation, Accountability, Enforcement	Identify methods for measuring success and for revising strategies over time	<u>GV</u> -Needs to be done. <u>SLP</u> -Very important. <u>NH</u> -Monitoring programs by the WMC for the effectiveness of BMPs should be developed. <u>Mtka</u> -The WMC should look at developing a long-term schedule or plan for reviewing future/pending items. This could be reassessed every 2 years before the CIP meeting. <u>Ply</u> -Success should be meeting WQ goals. <u>ML</u> -There is decision management science available for evaluating CIP strategies. If interested, I can show the Commission's engineer where to look for these to see if they may be a good fit for our Commission.

Table 2: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaire 5

Issue	Major Issue Topic	Issue Description	Comments
6	BCWMC/City Evaluation, Accountability, Enforcement	Establish a stakeholder involvement plan and determine need for an ongoing: <ul style="list-style-type: none"> ▪ Citizen advisory group (CAG) ▪ Technical advisory group (TAG) made up of local, regional and state technical staff ▪ Policy advisory group (PAG) 	GV-CAG and PAG already covered by BCWMC. TAG should be limited to local staff. SLP-We think this is overkill. It will take a lot of staff time and money. NH-Policy Advisory Group and Technical Advisory Group are sufficient. Mtk-Not a good idea for day-to-day Commission business but it is a good idea for new plan development. Ply-Yes for TAG, not sure about others. ML-We must be careful not to load too many layers of management to the Commission unless the Commission wishes to start paying its Commissioners and changing its operational model (from WMO to WMD).
7	BCWMC/City Evaluation, Accountability, Enforcement	Establish responsibilities for monitoring and evaluation programs	GV-Needs to be done. SLP-Very important. NH-A monitoring program developed and operated by WMC would probably be more effective and economical. ML-Yes. That comes with the territory.
8	BCWMC/City Responsibilities	Assess effect of growth and development identified in local comprehensive plans over next 20 years	GV-Done as part of local comp plan process. Once BCWMC develops watershed models for water quality and flood control, this will be addressed. SLP- No Concerns. NH-Assessing the effects of growth and development should continue to be the cities responsibility. Mtk-This isn't within the purview of the WMC and should remain a city land use issue and responsibility. Ply-No. ML-Yes. See answer to Question 1.
9	BCWMC/City Responsibilities	Develop quantifiable goals and policies that address water quantity, water quality, recreation, fish and wildlife, enhancement of public participation, groundwater, wetlands, and erosion control	GV-This item is the basic function of BCWMC and these goals must be in plan. BCWMC should assess the areas of enforcement and accountability as part of this process. SLP- No Concerns. NH-See # 1 above. Mtk- There are already goals and policies in place-they should be reviewed in detail during the plan update process to include current rules and regulations. Ply-Yes. ML-Yes. See answer to Question 1.
10	BCWMC/City Responsibilities	Assess or require local plans to assess the following: need for and frequency of parking lot sweeping; need for and frequency of stormwater outfall, sumps and pond inspections; adequacy of maintenance programs for flood control and stormwater facilities; need for spill containment; and the need for other management programs. Identify the entity responsible for implementation of these requirements.	GV-Already part of City's SWPPP reporting. BCWMC should consider requesting each member city's annual report. SLP-Aren't we already doing this? And isn't it also duplicating what is required in the SWPPP? NH-The individual cities should be responsible for assessments of these BMPs through the procedures outlined in the city's SWPPP, which will be consistent with the requirements of the MS4 permit. Mtk-This is already covered under the cities' MS4 permit. there isn't a need for the WMC to duplicate. Ply-No, stick to monitoring and meeting WQ goals. Robbinsdale-These issues should be contained in Member Cities SWPPP's. ML-Yes and no. Yes, these functions should be known by the Commission and presented in the form of an annual survey spread sheet by each member City. However, most of these components (I believe) are outlined within each City's adopted surface water management plan and SWPPP, which means they are completing many of these duties already. The Commission's (or BWSR's?) role may only be oversight. The cities should be responsible for implementation for each requirement. Mpls-This content is required through the MS4 permits. It should not <u>also</u> be required by the watershed organization - duplicate effort.

Table 2: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaire 5

Issue	Major Issue Topic	Issue Description	Comments
11	BCWMC/City Responsibilities	Review existing local controls and programs (e.g. those outlined in the city local water management plans) <i>Administrator Nash requested information from the TAC on 8/26/11 regarding each city's post-construction stormwater requirements. Some members responded to this request.</i>	<u>GV</u> -Uniformity should be a goal throughout the watershed. However, local controls and programs are a local decision. TAC could look at this in the future. <u>SLP</u> -Review as part of the SWMP reviews we already do. <u>NH</u> -This is already accomplished by the Commission when it reviews the individual cities updated surface water management plans. <u>Mtka</u> -This should be addressed when the cities update their WRMPs in response to the WMC plan updates. <u>Ply</u> -No. <u>ML</u> -The City of Medicine Lake has (since 8/26/11) adopted a Local Water Management Plan component of its comprehensive plan and adopted post construction ordinance protections. If those were not gathered as part of Administrator Nash's findings, and you would like to include them with those of other member cities, I can see that you receive them.
12	BCWMC/City Responsibilities	Review administrative and financial ability of the local units of government to adopt and enforce needed controls and programs (as outlined in city local water management plans)	<u>GV</u> -Not a BCWMC issue. <u>SLP</u> -Review as part of the SWMP reviews we already do. <u>NH</u> -Review of the city's administrative and financial abilities are completed by the city during their CIP reviews and the surface water management plan updating process. <u>Mtka</u> -Adoption of local ordinances isn't a role for the WMC. <u>Ply</u> -Maybe. <u>ML</u> -No. It's up to Cities to manage their own plans. The Commission, however, may monitor/survey what actions were taken locally and the cost of those actions on a year to year basis. Knowing how much money is spent on stormwater improvements, monitoring, etc. is another important watershed metric that we should better understand. <u>Mpls</u> -Why? This is required through the MS4 permit. It should not be required by the watershed organization-duplication of effort.
13	BCWMC/City Responsibilities	Determine responsible parties for streambank erosion and maintenance	<u>GV</u> -Major capital projects should be the responsibility of BCWMC, but ongoing routine maintenance is a member city responsibility. <u>SLP</u> -No concerns. <u>NH</u> -Coordinated effort between the WMC and the affected city. <u>Mtka</u> -There is an effective process in place between cities. <u>Ply</u> -Yes. <u>ML</u> -Yes. For long term improvements to our riparian corridors without actually owning the adjacent properties, the Commission is going to have to work with property owners on implementing collective non-structural BMPs in managing stream corridors. The challenge is to bring a sense of urgency to the stakeholders involved.
14	BCWMC/City Responsibilities	Address responsibilities for implementation of NPDES Phase II requirements	<u>GV</u> -Other than TMDL studies, this is not a BCWMC responsibility. <u>SLP</u> -Important. <u>NH</u> -The city should continue to be responsible for implementing MS4 permit requirements within its jurisdiction. <u>Mtka</u> -This is a city responsibility. There isn't a need for the WMC to duplicate. <u>Ply</u> -This is already a city responsibility. BCWMC could provide support. <u>ML</u> -Yes. It would be nice to create a worksheet and timeline to show cities how and what goals are being met, by when and by whom. <u>Mpls</u> -Why should the WMC do this?
15	BCWMC/City Responsibilities	Identify regulatory controls that the Commission delegates to the cities for enforcement	<u>GV</u> -BCWMC needs to evaluate this. <u>SLP</u> -This is currently just erosion control, correct? We'd want to have a discussion about adding anything to that. <u>NH</u> -Continue to leave enforcement to the cities, with the Commission's approval through the review of the cities surface water management plan. Regulatory controls related to storm water are dictated by the MS4 permit. <u>Ply</u> -No mandates. <u>ML</u> -Yes. Cities (at least some) need a clear understanding of who is responsible for what issues.

Table 2: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaire 5

Issue	Major Issue Topic	Issue Description	Comments
New Issues since June 2010			
16	Maintenance of BCWMC-funded CIP projects	<p>Are existing maintenance policies for flood control facilities adequate? If not, what changes would you like to see?</p> <p>The TAC provided recommendations to the Commission on a list of seven maintenance issues at the Commission's 3/18/10 meeting. The Commission directed that these recommendations be considered by the CIP Review Work Group. Does the Commission still need to address these issues? Should these issues be included in the Plan update process?</p>	<p><u>GV</u>-Need to discuss this. Major maintenance should be BCWMC responsibility and routine maintenance should be the cities. Major and routine maintenance needs to be defined. <u>SLP</u>-No Concerns. <u>NH</u>-City maintenance policies will likely become more involved with the new MS4 permit. These new policies should be sufficient. <u>Mtka</u>-Existing policies seem to be adequate but they should be reviewed as part of the new plan. <u>Ply</u>-What are the issues? <u>ML</u>-The TAC recommendations for the seven maintenance issues should be formalized into policy by the Commission. All policies should be reviewed as part of the Next Generation Plan update process. Major and minor maintenance projects need to be more clearly quantified. Reimbursement of easement costs by the Commission should be more carefully considered.</p>
17	Maintenance of BCWMC-funded CIP projects	<p>Are new policies needed for maintenance of water quality facilities? What policies would you recommend?</p> <p>The TAC provided recommendations to the Commission on a list of seven maintenance issues at the Commission's 3/18/10 meeting. The Commission directed that these recommendations be considered by the CIP Review Work Group. Does the Commission still need to address these issues? Should these issues be included in the Plan update process?</p>	<p><u>GV</u>-Yes. Discuss uniformity in pond dredging, buffer strips. Revisit at future TAC meeting. Yes. <u>SLP</u>-Yes. We would like to see discussion on algae growth control (stinky green ponds). We also think there should be policies regarding vegetation management, dredging, and structural repair, and who is responsible. <u>NH</u>-See # 16. <u>Mtka</u>-Existing policies seem to be adequate but they should be reviewed as part of the new plan. <u>Ply</u>-Maybe. <u>ML</u>-Contaminants of emerging concern should be addressed. Aquatic invasive species should be addressed. Groundwater interaction/contamination potential should be quantified and addressed. These impacts may or may not pose significant future maintenance costs for existing CIP projects.</p>

Table 2: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaire 5

Issue	Major Issue Topic	Issue Description	Comments
18	Water Quality Trading	At the 6/2/11 TAC meeting, the TAC recommended that the Commission consider implementing a water quality trading program to support possible policy changes requiring no net increase in phosphorus loadings. What concerns and/or recommendations do you have regarding the policy change and a trading program?	<u>GV</u> -Not interested in proceeding with this at this time. <u>SLP</u> -This seems excessively complicated, and a management headache. We think that there is little drive for private development to participate. <u>NH</u> -A water quality trading program should not be tied to changes in other Commission policies. If the new MS4 permit will not give credit for water quality trading, then the Commission should not implement a trading program. <u>Mtka</u> -This is a good idea but it should be a (very) low priority. Based on discussion with other WMOs offering WQ trading, there isn't much of a demand. <u>Ply</u> -I support a trading program. <u>Robbinsdale</u> -Complexities of such a policy may make it difficult to administer. <u>ML</u> -(Abbrev.) I do not support trading programs. Market trading credit programs give developers an out for shirking the requirements of managing phosphorous loading. If phosphorous loading becomes an impediment to a proposed development, then maybe it's time for the developer to rethink the plan. The technology is available today for creative developers to deal with on-site phosphorous management. Developers must understand that the Commission stands by its standards. <u>Mpls</u> -Premature, consider in the next generation, if still relevant.
19	Volume Reduction Requirements	Should BCWMC establish abstraction or infiltration requirements to address water quality concerns? What recommendations do you have regarding new development and redevelopment?	<u>GV</u> -Not interested in proceeding with this at this time. Some cities can implement and others cannot. Should be local decision based on local conditions. <u>SLP</u> -We think adding volume control is premature. <u>NH</u> -Make sure that site specific issues such as non-infiltrating soils, high ground water, bedrock, hotspots, etc. are included as conditions of the requirements. <u>Mtka</u> -Cities will most likely already be required to do this as part of the NPDES MS4 permit. The WMC does not need to duplicate. <u>Ply</u> - Trading program. <u>Robbinsdale</u> -I think this would be beneficial although soil types may limit broad application through the watershed. Should review other watersheds' approaches to this. <u>ML</u> -Yes. Future on-site management of surface waters is a critical component to improving water quality. While sub-surface grit biofiltration systems seem to be the state of the art presently, I think the Commission should be more careful about approving these designs without better understanding their potential impacts on possible groundwater contamination. It remains to be seen how easily cleaning and removing concentrated contaminants or cleaning up toxic spills from these systems really is. The "out of sight, out of mind" factor must be closely watched. The Commission should be taking an active role in seeing that more LID and LEED qualifications are reached. These should be added to the metrics "watershed watch list" mentioned in question 1 <u>Mpls</u> -No. EPA/MPCA are moving in this direction, WMC should not.
20	Triggers or thresholds for application of stormwater requirements	Are the current "project review" triggers appropriate? What changes would you suggest? (Project triggers were discussed at 6/2/11 TAC meeting)	<u>GV</u> -Yes. It is an issue and should be discussed as part of process. <u>SLP</u> -Appropriate. <u>NH</u> -Current project review triggers are appropriate. <u>Mtka</u> -The current project review triggers seem to work fine. <u>Ply</u> -Trigger should be @ 1 acre, fees are too high. <u>Robbinsdale</u> -Guidance for smaller projects including residential redevelopment would be beneficial. <u>ML</u> -The triggers currently are probably appropriate accept for the grit chamber installation requirements. I think all such installations should be approved under Commission review and there should be a clear understanding why surface water infiltration basins could not otherwise be used <u>Mpls</u> -OK as-is.

Table 2: Summary of Responses to TAC Next Generation Plan Issue Survey - Questionnaire 5

Issue	Major Issue Topic	Issue Description	Comments
21	Prioritization of CIP projects	What criteria should be considered in prioritizing CIP projects within the eight categories of projects (e.g. water quality, flooding & rate control, wetland management, etc.). Prioritizing CIP projects was discussed at 2/4/11 TAC meeting.	GV-Priorities of BCWMC should remain flood control and water quality. Wetland management is a local issue. <u>SLP</u> -“Biggest bang for the buck,” the condition of the receiving water (if it has a TMDL or is otherwise impaired). <u>NH</u> - Does it benefit multiple cities, cost, does it address a requirement in a TMDL (water quality). <u>Mtka</u> -The current collaborative process used by the WMC and TAC has worked well in the past and should be kept in place. <u>Ply</u> -Need to see list. <u>Robbinsdale</u> -Ranking should include relationship to implementation/compliance with TMDL requirements. <u>ML</u> -The TAC memo of 2/4/11 addresses the eight categories but does not outline the criteria. Instead, it says the Commission should proceed with “should continue its current system.” What exactly is our “current system?” Again, a decision sciences approach here may be helpful in prioritizing future projects.
New Issues Identified in Survey			
	Rules and regulations		<u>Ply</u> -Streamline rules and regulations. Agencies are developing new and different required strategies to meet water quality goals. This creates confusion and difficulty in meeting various requirements across fed/state/regional/local authorities.
	Financial reporting		<u>Mtka</u> -Improved financial documents.
	Watershed map modernization		<u>ML</u> -The Commission has created and relied upon a watershed map that does not clearly show and designate all public waters, public wetlands, public ditches, stormwater management ponds and structural capital improvement projects of the watershed. An online map that allows the user to identify all such waterbodies in a layered application would be helpful in the oversight of public improvements created on behalf of the Commission, its member cities and other public entities. The Commission should prioritize these revisions as the updated map will aid development of the Next Generation Plan.
	Aquatic invasive species and contaminants of emerging concern		<u>ML</u> -The Commission has yet to formalize a policy for if and how certain pending impacts to the environmental health and function of the watershed and its improvements will be addressed. The Commission will likely face public pressure to fund or otherwise manage AIS and CECs very soon. An understanding of the Commission’s role in containment, maintenance, or other management of possible impacts (and funding considerations) should be made prior to or part of the 2013 budget discussions.

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6G – 2011 Water Quality Monitoring Activities, Westwood Lake and Crane Lake
BCWMC March 15, 2012 Meeting Agenda
Date: March 7, 2012
Project: 23270051 2012 003

6G. 2011 Water Quality Monitoring Activities, Westwood Lake and Crane Lake

Recommendations:

- a. Accept the water quality report and authorize Amy Herbert to post the report on the BCWMC Web site.

Background

Attached is the executive summary of the report *2011 Lake Water Quality Study, Westwood Lake and Crane Lake*. Highlights of the report will be provided at the Commission meeting. The report will be posted on the Bassett Creek web site following BCWMC authorization. Contact Amy Herbert at bcra@barr.com or at 952-934-6316 if you would like a paper copy of the report.

2011 Lake Water Quality Study

Westwood Lake and Crane Lake

*Prepared by
Bassett Creek Watershed Management Commission*

January 2012



Executive Summary

Since 1970, water quality has been monitored in ten major lakes under the management of the Bassett Creek Watershed Management Commission (BCWMC). The main objective of this program is to detect changes or trends in lake water quality over time that will help determine the effects from changing land use patterns within the watershed as well as the BCWMC's efforts to maintain and improve water quality. The BCWMC adopted its current watershed management plan (Plan) in 2004. The Plan complies with the provisions of the Minnesota Rules Chapter 8410, the Metropolitan Surface Water Management Act, the Water Resources Management Policy Plan, and other regional plans. The BCWMC's Plan sets the vision and guidelines for managing surface water within the boundaries of the BCWMC.

This report summarizes the results of water quality monitoring during 2011 in Westwood Lake in St. Louis Park and Crane Lake in Minnetonka. The lakes were monitored for both chemical (Appendices A and C) and biological (Appendices B and D) water quality parameters, the latter including phytoplankton, zooplankton and macrophytes (aquatic plants). Monitoring results are summarized by lake and include a description of the results along with graphical representations of the data.

The conclusions from 2011 water quality monitoring are as follows:

Crane Lake

- A trend analysis of data collected during the past 18 years (i.e., 1994 through 2011) indicates no significant change in water quality.
- The good water quality observed in Crane Lake in 2011 met both the BCWMC goals and Minnesota State Water Quality Standards for shallow lakes.
- Two of the plant species present in Crane Lake during 2011 (stonewort and coontail) are strong nutrient absorbers and can act to improve water quality.
- In 2011, the plant species found in the lake are tolerant to moderate disturbance.
- One non-native plant species, purple loosestrife, was observed during 2011.

- Historical records indicate water quality has improved since 1990 and that the BCWMC goals have been met more frequently since 1990. BCWMC's phosphorus goal was only met 27 percent of the time during the 1975 through 1990 period, but was met 71 percent of the time during the 1991 through 2011 period. BCWMC's chlorophyll *a* goal was only met 64 percent of the time during the 1977 through 1990 period, but was met 86 percent of the time during the 1991 through 2011 period. BCWMC's Secchi disc goal was met 73 percent of the time during the 1977 through 1990 period and 80 percent of the time during the 1991 through 2011 period.
- Although chloride concentrations in Crane Lake during the 1990's match the pattern of increases observed in 38 Twin Cities Area lakes, current chloride concentrations in Crane Lake are three times higher than average concentrations observed in 38 Twin Cities Area lakes. Chloride concentrations (i.e., estimated from specific conductance measurements) since 1997 are above the chronic exposure chloride standard of 230 mg/l established by the MPCA for the protection of aquatic life and recreation (Minnesota R. Ch. 7050 and 7052). It appears that Crane Lake is experiencing chloride impairment.

Westwood Lake

- A trend analysis of data collected during the past 10 years (i.e., 2002 through 2011) indicates no significant change in water quality.
- The good water quality observed in Westwood Lake in 2011 met both the BCWMC goals and Minnesota State Water Quality Standards for shallow lakes.
- Three of the plant species present in Westwood Lake during 2011 (muskgrass, stonewort, and coontail) are strong nutrient absorbers and can act to improve water quality.
- In 2011, the plant species found in the lake are tolerant to moderate disturbance.
- One non-native plant species, purple loosestrife, was observed during 2011.
- Historical records indicate the lake's water quality has met BCWMC goals and the Minnesota State Standards for shallow lakes at least three fourths of the time since

1977. BCWMC's goal for phosphorus was met 75 percent of the time and BCWMC's goals for chlorophyll *a* and Secchi disc were met 94 percent of the time from 1977 through 2011. The Minnesota State Standard for phosphorus has been met 75 percent of the time, the standard for chlorophyll *a* has been met 88 percent of the time, and the standard for Secchi disc has been met 94 percent of the time since 1977. The 2011 summer average chlorophyll *a* concentration was the lowest observed during the 1977 through 2011 period of record.

Recommendations

It is recommended that BCWMC contact the Minnesota Department of Natural Resources (MDNR) and request that purple loosestrife-eating beetles be introduced to the areas surrounding Crane Lake and Westwood Lake that are infested with purple loosestrife. Introduction of the beetles is expected to control purple loosestrife and protect the native vegetation.

We recommend that BCWMC select one of the following options to address the apparent chloride impairment in Crane Lake:

1. Monitor Crane Lake for chloride during the next regular monitoring cycle in 2014 to determine whether or not the lake is experiencing chloride impairment. If impaired, determine management measures to reduce chloride levels in Crane Lake.
2. Submit all historical Crane Lake data and this report to the MPCA in the near future, but wait until 2014 to monitor the lake for chloride. Request that Crane Lake be included in the TCMA Chloride Management Plan to be completed by the MPCA in 2014. BCWMC would benefit from MPCA assistance to determine management measures to reduce chloride levels in Crane Lake if this option were pursued. However, implementation of the management measures would be voluntary since current chloride data are not available and the lake is not listed as impaired for chloride (i.e., not on the EPA 303d list of impaired waters).
3. Submit all historical Crane Lake data and this report to the MPCA in the near future and monitor chloride concentrations in Crane Lake four times per year (winter, spring, summer, and fall) in 2012 and 2013. If the 2012 and 2013 chloride data indicated the lake is impaired, Crane Lake would be added to the EPA 303d list of impaired waters. Request that Crane Lake be included in the TCMA Chloride Management Plan. BCWMC would benefit from MPCA assistance to determine

management measures to reduce chloride levels in Crane Lake and implementation of the management measures would be mandatory if the lake is impaired.

Bassett Creek Watershed Management Commission 2012 Administrative Calendar

<i>January 2012</i>	<i>February 2012</i>	<i>March 2012</i>	<i>April 2012</i>
MEETING – JANUARY 19 <ul style="list-style-type: none"> • January 5 – TAC meeting, 1:30 p.m. • January 31 - End of Fiscal Year • Direct auditor to prepare audit report • Terms end for Crystal, Golden Valley, and Medicine Lake • Resolution to appoint official depositories; • Discuss CIP projects' admin expenses reimbursement 	MEETING – FEBRUARY 16 <ul style="list-style-type: none"> • February 14 – Admin Cmttee meeting; 8:00 a.m. • BCWMC Organizational meeting – elect officers; Discuss BCWMC mission and goals; Discuss 2011 Commission – TAC liaisons • Assessment payments from member-cities due February 1 	MEETING – MARCH 15 <ul style="list-style-type: none"> • March 7 –TAC mtg, 1:30 p.m. • March 22 – Plymouth Env. Quality Fair 	MEETING – APRIL 19 <ul style="list-style-type: none"> • April 5 – TAC mtg, 1:30 p.m. • April 13-14 – Plymouth Yard/Garden Expo • Audit Report to State Auditor
<i>May 2012</i>	<i>June 2012</i>	<i>July 2012</i>	<i>August 2012</i>
MEETING – MAY 17 <ul style="list-style-type: none"> • Receive/ file Audit; Review Draft 2012 Budget; Final Annual Report presented for approval and submitted to BWSR and member cities 	MEETING – JUNE 21 <ul style="list-style-type: none"> • Budget must be approved by Commission by July 1 to meet 30-day city review; Budget sent to member cities by July 1 for 30-day review 	MEETING – JULY 19 <ul style="list-style-type: none"> • LMCIT annual invoice; Receive first half of ad valorem tax (early July); 	MEETING – AUGUST 16
<i>September 2012</i>	<i>October 2012</i>	<i>November 2012</i>	<i>December 2012</i>
MEETING–SEPTEMBER 20 <ul style="list-style-type: none"> • Submit maximum levy ad valorem tax request to Hennepin County 	MEETING – OCTOBER 18 <ul style="list-style-type: none"> • Prepare letters re: deadline to receive applications for the Channel Maintenance Fund during next year's construction season 	MEETING– WEDNESDAY, NOVEMBER 15	MEETING – DECEMBER 20 <ul style="list-style-type: none"> • Prepare resolution to transfer 2011 funds from admin acct. to TMDL, Long-term maint., and channel erosion accounts.

Monthly Meeting

Meetings are held at 11:30 am, every third Thursday of the month (except the November meeting is on Wednesday, Nov. 15) at the City of Golden Valley City Hall, Council Conference Room (2nd floor), 7800 Golden Valley Road, Golden Valley, MN 55427

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