



Bassett Creek Watershed Management Commission

A g e n d a

11:30 a.m., Thursday, March 17, 2011

Golden Valley City Hall – 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 17th meeting minutes ***
 - B. **Presentation of Financial Statements ***
 - C. **Presentation of Invoices for Payment Approval**
 - i. **Barr Engineering – Engineering Services through 2/25/11**
 - ii. **Watershed Consulting, LLC – Geoff Nash Administrator Services through 2/28/11**
 - iii. **Amy Herbert – February Administrative Services**
 - iv. **D'amico-ACE Catering – March 2011 Meeting Catering**
 - v. **JASS – 2011 WMWA Workshops through 1/5/11**
 - vi. **Shingle Creek Watershed Management Commission – 2011 WMWA Workshops through 3/1/11**
 - vii. **JASS – WMWA General Expenses Quarterly Invoice through March 11, 2011**
 - viii. **Shingle Creek Watershed Management Commission – WMWA General Expenses Quarterly Invoice through March 11, 2011**
 - ix. **MMKR – Progress Billing for Audit Services through 1/31/11**
 - D. **Order Production of 2010 Annual Report**
5. **NEW BUSINESS**
 - A. **Presentation by Brad Wozney, BWSR**
6. **OLD BUSINESS**
 - A. **9209 40 ½ Avenue Compensating Storage: New Hope** (*see March 9, 2011, memo by Barr Engineering*)
 - B. **Discuss Sweeney Lake Outlet Project Schedule, Public Hearing, and Cooperative Agreement**
 - C. **TAC Recommendations** (*see March 7, 2011, TAC memo and draft BMP form by MPCA*)
 - i. **Hydrologic and Hydraulic Modeling and Water Quality Modeling in the Watershed** (*see both Barr Engineering memos revised March 7, 2011*)
 - ii. **Recommendations for Engineering and Technical Services**
 - iii. **Recommendations for 2011 BCWMC Watershed Tour**
 - D. **2010 Water Quality Monitoring Activities:**
 - i. **2010 Lake Water Quality Study for Medicine Lake** (*see March 2011 report*)
 - ii. **Twin Lake Phosphorus Internal Loading Investigation** (*see March 2011 report*)
 - E. **Education Committee** (*see Education Committee notes*)
7. **COMMUNICATIONS**
 - A. **Chair**
 - B. **Administrator** (*see Administrator's report*)
 - C. **Commissioners**
 - D. **Committees**
 - E. **Counsel**
 - F. **Engineer**
8. **INFORMATION ONLY**
9. **ADJOURNMENT**

Bassett Creek Watershed Management Commission

Minutes of the Meeting of February 17, 2011

1. Call to Order

The Bassett Creek Watershed Management Commission (BCWMC) was called to order at 11:33 a.m., on Thursday, February 17, 2011, at Golden Valley City Hall by Chair Loomis. Ms. Herbert conducted roll call.

Roll Call

<i>Crystal</i>	Commissioner Pauline Langsdorf, Secretary	<i>Administrator</i>	Geoff Nash
<i>Golden Valley</i>	Commissioner Linda Loomis, Chair	<i>Counsel</i>	Troy Gilchrist
<i>Medicine Lake</i>	Commissioner Ted Hoshal	<i>Engineer</i>	Karen Chandler
<i>Minneapolis</i>	Commissioner Michael Welch, Vice Chair	<i>Recorder</i>	Amy Herbert
<i>Minnetonka</i>	Commissioner Bonnie Harper-Lore		
<i>New Hope</i>	Alternate Commissioner Al Sarvi		
<i>Plymouth</i>	Commissioner Ginny Black, Vice Chair		
<i>Robbinsdale</i>	<i>Absent</i>		
<i>St. Louis Park</i>	Commissioner Jim deLambert		

Also present: Laura Adler, BCWMC Technical Advisory Committee, City of St. Louis Park
Derek Asche, BCWMC Technical Advisory Committee, City of Plymouth
Bill Bleckwenn, McGhie & Betts Environmental Services, Inc.
Pat Byrne, BCWMC Technical Advisory Committee, City of Minneapolis
Jeannine Clancy, BCWMC Technical Advisory Committee, City of Golden Valley
Jack Frost, Metropolitan Council Environmental Services
Dave Hanson, Alternate Commissioner, City of Golden Valley
Justin Klabo, SEH, Inc.
Tom Mathisen, BCWMC Technical Advisory Committee, City of Crystal
Richard McCoy, BCWMC Technical Advisory Committee, City of Robbinsdale
Jeff Oliver, BCWMC Technical Advisory Committee, City of Golden Valley
Stuart Stockhaus, Alternate Commissioner, City of Crystal
Liz Stout, BCWMC Technical Advisory Committee, City of Minnetonka
Andrea Weber, Minneapolis Park and Recreation Board

2. Approval of Agenda and Consent Agenda

Chair Loomis added an invoice to Agenda Item 4C – presentation of Invoices for Payment Approval. She said the invoice being added was an invoice from Kennedy & Graven for January legal services. She also added item 6i – Wirth Park improvements. Commissioner Black requested the removal of item 6G – Lost Lake Vegetative Management Plan and moved to approve the Agenda as amended and the Consent Agenda. Alternate Commissioner Langsdorf seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

3. Citizen Input on Non-Agenda Items

No citizen input on non-agenda items.

4. Administration

- A. Presentation of the January 20, 2011, BCWMC meeting minutes. The January 20, 2011, meeting minutes were approved under the Consent Agenda.
- B. Presentation of the Financial Statement. The February financial report was approved under the Consent Agenda.

The general and construction account balances reported in the February 2011 Financial Report are as follows:

Checking Account Balance	739,395.79
<i>TOTAL GENERAL FUND BALANCE</i>	<i>739,395.79</i>
Construction Account Cash Balance	1,633,170.98
Investment due 3/18/2014	1,010,687.50
Investment due 5/13/2015	508,918.39
Investment due 9/16/2015	512,059.83
<i>TOTAL CONSTRUCTION ACCOUNT BALANCE</i>	<i>3,664,836.70</i>
<i>-Less: Reserved for CIP projects</i>	<i>4,997,579.11</i>
<i>Construction cash/ investments available for projects</i>	<i>(1,332,742.41)</i>

- C. Presentation of Invoices for Payment Approval.

Invoices:

- i. Barr Engineering Company – Engineering Services through January 28, 2011 - invoice for the amount of \$19,176.71.
- ii. Watershed Consulting, LLC – Geoff Nash Administrator Services through January 31, 2011 – invoice for the amount of \$3,795.40.
- iii. Amy Herbert – January Recording Administrator Services - invoice for the amount of \$4,466.41.
- iv. D’amico Catering – February Meeting Catering - invoice for the amount of \$320.32.
- v. Kennedy & Graven – Legal Services through January 31, 201 – invoice for the amount of \$1,110.15.

Commissioner Welch moved to approve payment of all five invoices. Commissioner Black seconded the motion. By call of roll the motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

- D. Review BCWMC’s Closed Account Policy. Commissioner Black moved to approve the policy with no amendments. Commissioner Langsdorf seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].
- E. Discuss Participation in the Metropolitan Council Environmental Service’s 2011 CAMP (Citizen-Assisted Monitoring Program). Commissioner Black moved to approve the BCWMC’s participation in the 2011 CAMP program for the seven sampling sites sponsored by the BCWMC in 2010 recognizing that it will depend on the ability to secure volunteer samplers for the sites. Commissioner deLambert seconded the motion. The Commission discussed the possibility of adding additional sampling sites if volunteers could be secured. Chair Loomis said the Commission could

consider additional sample sites if and when they are brought to the Commission. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote]. Commissioner Black commented that it would be helpful to have a rough number of sample sites proposed for the 2012 CAMP program in time for the 2012 budget discussions.

- F. **BCWMC Organizational Meeting.** Chair Loomis called for nominations for the BCWMC officer positions of Chair, Vice Chair, Treasurer, and Secretary. Commissioner Langsdorf offered that she would like to step down from the role of secretary. Commissioner Welch said that he would step down from the position of Treasurer if someone would like to take on the role. Commissioner deLambert volunteered to take on a board position. Commissioner Welch nominated Jim deLambert for secretary and the current Chair Linda Loomis, Vice Chair Ginny Black, and Treasurer Michael Welch to maintain their positions. Commissioner Black seconded the motion. Chair Loomis called for nominations three more times and hearing no other nominations she closed the nomination process. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote]. Commissioner Black moved to appoint the BCWMC officers and the Education Committee Chair to the Budget Committee. Commissioner Welch seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].
- G. **Potential BCWMC 2011 Watershed Tour.** The Commission discussed holding a 2011 tour. The Commission considered inviting the public to join the tour at the tour stops. The Commission discussed touring the Wirth Lake Park area, the Main Stem stream restoration project at Briarwood in Golden Valley, the North Branch stream restoration project in the City of Crystal, and the West Medicine Lake Park Pond project. The Commission focused on holding the tour during the month of June and on a Saturday and that earlier in the month would likely work better than later in the month. The Commission directed the TAC to discuss the tour and to bring feedback to the Commission at its March meeting.
- H. **Review the BCWMC's CIP Administrative Expenses.** Administrator Nash explained the spreadsheet he created and handed out that was labeled CIP Project Administration Expenses Fiscal Year 2010. He said that in talking with the Commission Engineers it was determined that their expenses were not really administrative expenses but instead engineering expenses and so the CIP administrative expenses included Watershed Consulting's Administrator services and Kennedy and Graven's legal services on the CIP projects. The Commission discussed the additional expenses of preparing, copying and distributing feasibility reports and publishing public hearing notices. Administrator Nash commented that he thinks that there is administrative work done by the Commission Engineer and the Recording Administrator that is CIP administrative work and that the 2.5% is a reasonable amount for the Commission to be reimbursed for its CIP administrative expenses. Chair Loomis said it doesn't seem that there is a need for the Commission to take action to change its practice at this time. The Commission discussed the possibility of the Commission Engineer and the Recording Administrator adding more detail to their invoices to track CIP administrative costs and asked if modifications could be made. Commissioner Black suggested that staff track both the items that are clearly CIP administrative costs and the gray areas that aren't clearly CIP administrative expenses and that the Administrative Services Committee could discuss the data in the future.
- I. **2011 Engineering Budget.** Ms. Chandler reviewed with the Commission the February 10, 2011, memo from Barr Engineering detailing the 2011 engineering budget and the assumptions used to prepare the budget. Commissioner Welch moved to approve the 2011 engineering budget as described in the Barr Engineering memo. Commissioner Black seconded the motion.

The Commission discussed its process for being notified when Commission work reaches its budget and approaches going over budget. Administrator Nash said that he will be working with the Commission Engineer to monitor the budget. Commissioner Welch remarked that the Commission hasn't always correlated its direction for work to budget lines and that the Commission should include that budget direction in Commission actions. Commissioner Black asked that the Commission

Engineer memos list the budget line being recommend for invoicing engineering work. Ms. Chandler suggested that the Commission review its budget status mid-way through its budget year. The Commission agreed.

The motion carried with eight votes in favor [City of Robbinsdale absent from vote].

Commissioner Black moved to approve Barr Engineering conducting the WOMP support tasks as requested by the Metropolitan Council and the Minneapolis Park and Recreation Board and to assist the Administrator and the Recording Administrator with the preparation of the 2010 annual report. Commissioner Harper-Lore seconded the motion. The motion carried with eight votes in favor [City of Robbinsdale absent from vote].

5. New Business

- A. **2011 Golden Valley Pavement Management Plan.** Ms. Chandler pointed out the location of the project in the Sweeney Lake watershed in the City of Golden Valley. She explained that the project is before the Commission because it is a street reconstruction project greater than five acres. Ms. Chandler reported that the project comprises 6.23 acres of disturbed area in the watershed and that 1.2 miles of residential streets will be reconstructed. She explained that with some of the street and intersection narrowing that will occur there will be a decrease in impervious surface area by 0.46 acres leaving a total impervious surface area of the project of 3.02 acres. She said that the Commission Engineer recommends approval of the project with the conditions a through f in the February 10, 2011, memo from Barr Engineering Company.

Commissioner Welch commented that this project is tributary to an impaired water body for which the Commission has spent a fair amount of money trying to complete a TMDL. He continued by saying that the information in the Commission's meeting packet about this project didn't provide information on the project's phosphorus loading into Sweeney Lake. Ms. Chandler responded that the City hadn't provided that information to the Commission Engineer as the project is not required by the Commission to meet Level 1 treatment or nondegradation requirements. Mr. Oliver stated that virtually every foot of the area of the project drains to multiple storm water ponds before draining into Sweeney Lake. He said that the City always looks for opportunities in projects to provide water quality treatment but isn't required to run the numbers about which Commissioner Welch is asking.

Commissioner Black asked if this discussion points out a policy that the Commission needs to review regarding linear projects. Commissioner Welch said that the Commission has agreed to be the categorical implementer for TMDLs but isn't getting the data on redevelopment projects regarding phosphorus loading implications. Commissioner Black asked if the data could be generated through calculations instead of by running models. Chair Loomis commented that perhaps the Commission could refer the issue to the TAC. Commissioner Hoshal remarked that he was in support of Commissioner Welch's comment and would like to see the TAC to take up the issue. Commissioner Hoshal added that the Commission should also be looking at curb and gutter practices and volume management.

Ms. Clancy said that it takes cities years to develop projects like the pavement management projects and if the Commission is going to change its requirements then the cities would need to know as soon as possible. Commissioner Welch clarified for the record that he had just asked for the number related to the phosphorus loading into Sweeney Lake. Commissioner deLambert moved to approve the permit with the recommendations a – f in the Commission Engineer memo and to direct the TAC to review and discuss how to derive the number for the change in the phosphorus load in relation to the change in impervious surface area. Commissioner Hoshal seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

- B. **Spring Snowmelt Runoff.** Ms. Chandler reviewed the data in the February 9, 2011, Barr Engineering memo. She summarized that the system should be in pretty good condition and should be able to handle the water content in the snow. She said that the cities of Plymouth and Medicine Lake may want to consider warning their residents around Medicine Lake that spring runoff is likely to cause high water levels in the lake.

6. Old Business

- A. **Administrative Services Committee.** Administrator Nash reported that the Commission received one response to its solicitation of letters of interest for legal services and eight responses to its solicitation of letters of interest for engineering and technical services. He said that the Administrative Services Committee met last week and recommended that the TAC review the letters from the engineering and technical service respondents. Commissioner Welch added that the Committee also recommended that the TAC weigh in on how the Commission handles its contracting process for engineering and technical services and whether the TAC recommends that the Commission make any changes, such as moving forward with the Committee's idea that the Commission go to a one-year contract with its Engineering contractor. Commissioner Black asked the TAC to also discuss how the Commission could put more competition into its process for obtaining engineering services in order to keep costs as low as possible. Commissioner Welch moved to approve the Commission contracting with Kennedy and Graven for two more years of legal services to the Commission. Commissioner Black seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

B. TAC Recommendations

- i. **Capital Improvement Plan (CIP) Project Modification Recommendations.** Administrator Nash said the discussion focused on the idea of what is meant by the Commission's definition of the trunk system. He said that the TAC discussed the idea of funding projects in a tiered manner instead of the current method of funding the project fully or not at all. Administrator Nash said that the TAC recommended that the Commission take the criteria that it currently uses to evaluate CIP projects and create a draft tiered system for funding CIP projects that would flesh out what is meant by the Commission's responsibility to the trunk system. He said that the TAC is requesting that the board direct the Administrator work with the Engineer to create the draft tiered system.

Commissioner Welch commented that the eight broad categories of issues and policies in the BCWMC's Watershed Management Plan could be fleshed out and he volunteered to help and said that he would like more information on where the TAC sees the partial-funding project idea going. Ms. Clancy commented that she wanted feedback from the Commission on the tradeoffs that could result from partial funding of projects such as that some projects partially funded by the Commission would potentially be constructed later than what the Commission would want due to the cities limitations to raise stormwater fees for project funds.

Commissioner Black suggested that the Commission wouldn't need to put the tiered system discussion on the TAC's agenda for the next currently scheduled six TAC meetings but that the Commission shouldn't let it drop off its table completely. Chair Loomis directed the Commission to add the issue to its next generation planning process. Commissioner Black asked what the Commission would want to do regarding fleshing out the criteria. Ms. Chandler said that she thought the criteria could be tackled separately from the tiered system. Chair Loomis asked if staff had enough direction to move forward

and staff indicated they did.

- ii. **TAC-BCWMC Liaisons for March 3rd, April 7th, and May 5th TAC Meetings.** Commissioner Hoshal volunteered to be the liaison for the March 3rd meeting, Commissioner Welch volunteered for the April 7th meeting, and Commissioner Harper-Lore volunteered for the May 5th meeting.

C. Discuss and Order Feasibility Reports for:

- i. **Wirth Lake Outlet Project.** Ms. Chandler discussed the project and explained that it would modify the Wirth Lake Outlet structure to prevent flow from the creek to the lake during flood periods. She reported that the estimated project cost is \$250,000 and that BWSR has awarded a \$75,000 grant for the project. She said that the estimated cost to prepare the feasibility report is \$7,890. Commissioner Black asked if the \$7,890 will come out of the BCWMC's construction fund and Ms. Chandler said yes. Commissioner Harper-Lore moved to approve ordering the preparation of the feasibility report by Barr Engineering. Commissioner Langsdorf seconded the motion.

Commissioner Welch commented that there is an adjustable outlet weir on Lake Nokomis and he urged staff to look at that weir and to avoid using that model because it has not worked. Commissioner Welch also recommended that the Administrator draft a Commission policy on bidding out for future engineering studies. Commissioner Black supported Commissioner Welch's recommendation. The Commission agreed. The motion carried with eight votes in favor [City of Robbinsdale absent from vote].

- ii. **Main Stem Channel Restoration Project.** Ms. Chandler said that this project has a high likelihood of running into contaminated soils so the project likely will need to undertake a Phase 1 and possibly a Phase 2 environmental assessment. She said that Barr Engineering estimated \$30,000 for the environmental assessment task out of the estimated \$53,545 cost of the feasibility report preparation. She noted that this project was not included in the BCWMC's Resource Management Plan (RMP) because the RMP included only projects on the Commission's CIP through 2016 and this restoration project had been slated for 2017 until last month when the Commission moved up the project timeline. She said that the Commission Engineer believes that the same process would be followed for this project as for the projects included in the RMP, meaning the project would undergo a cultural resource review, wetland delineations, wetland impacts reviews, and wetland functional assessments.

Ms. Chandler explained that typically Barr Engineering submits a draft feasibility report to the engineering staff of the cities involved in the projects for comments about a week before the draft is sent to the Commission and she wondered if the Commission would also like to see that preliminary draft. Commissioner Welch said that he would like to see it.

Commissioner Welch encouraged staff to look at bioretention and vegetated bank restoration issues for the project during the feasibility report process. He also said that he has gotten questions from citizens about sedimentation in the creek in this reach and he wondered if it is something that should be addressed in the feasibility report or if it is not in the scope. Commissioner Black asked if Commissioner Welch was asking for it to be included in the study. Commissioner Welch said he thinks the issue is outside of the scope of the feasibility study but he thinks that the study may bring the topic out into the open. Commissioner Welch moved to approve the preparation of the feasibility study by Barr Engineering. Commissioner Black seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

- iii. **Schaper Park Project.** Ms. Chandler explained that one of the possible projects identified in the Sweeney Lake TMDL implementation plan was making modifications to Schaper Park pond to improve the phosphorus removal of the pond through options such as enlarging the pond, dredging the pond, and installing a filtration barrier. She stated that the proposed feasibility report would determine if there are some improvements that can be made to Schaper Pond to reduce the phosphorus loading to Sweeney Lake and would recommend the most cost effective option. Commissioner Black moved to approve the preparation of the feasibility report on Schaper Pond. Commissioner Harper-Lore seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

- D. **Discuss and Order Cooperative Agreements for Wirth Lake Outlet Modification Project, Sweeney Lake Outlet Project, and Main Stem Channel Restoration Project.** Commissioner Welch moved to have counsel work with the appropriate entities to draft the cooperative agreements for these projects for the Commission's review and approval. Commissioner Black seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

E. BCWMC's CIP:

- i. **Watershed Management Plan Amendment Recommendations and Timeline.** Ms. Chandler discussed the memo that was included in the meeting packet and that describes the Main Stem channel restoration and the Wirth Lake Outlet projects, which will be part of the Commission's major plan amendment request. She noted that a revised memo was handed out that includes the option of the Commission adding Lakeview Park Pond to this major plan amendment request. She explained that the Commission approved adding the Lakeview Park Pond project to the CIP for 2013 and that since there is a feasibility report and a cost estimate for the project, the Commission could include this project on this year's major plan amendment without much additional preparation. She pointed out that the Commission wouldn't levy for the project this year. Ms. Chandler said that the Commission would be looking for Hennepin County to approve the major plan amendment at its August 2nd meeting.

Commissioner Welch moved to authorize staff to prepare the major plan amendment including the Wirth Lake Outlet modification project, the Main Stem Restoration project, and the Lakeview Park Pond project and to provide the public notices for the public hearings per statute and to attend the public hearing if necessary as requested by Hennepin County and with advance notice to the Commission and to add the Minneapolis Park and Recreation Board to the list of parties being sent the major plan amendment request. Commissioner Black seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

- ii. **Funding the Proposed 2012 CIP Projects.** Ms. Chandler said that the status of the CIP was reviewed to analyze what the Commission would have in its CIP Reserve. She walked the Commission through the tables about the Commission's available CIP funds available and the Commissions CIP funding needs as listed in the Barr Engineering memo from February 9, 2011. She summarized that the Commission would need \$900,000 for the 2012 CIP projects and that the Commission has approximately \$585,000 in its CIP reserve account. She noted that if the Commission wants to keep its historical balance of approximately \$300,000 in its CIP reserve account then it has about \$285,000 to use toward the 2012 CIP projects. Ms. Chandler reminded the Commission that it will have \$75,000 coming in from the Minnesota Board of Water and Soil Resources for the Clean Water Legacy grant for the Wirth Lake Outlet structure modification project. She explained that tabulating all those numbers leaves the Commission with an estimated 2012

levy of approximately \$540,000 for the Main Stem channel restoration project, the Wirth Lake Outlet structure modification project, and the Schaper Park feasibility study as part of the Sweeney Lake TMDL implementation plan.

- F. **Work Plan for Wirth Lake Outlet Modification CWL Grant Project.** Administrator Nash reported that he is working on the plan in eLink, He said that the Commission will need to execute a contract for the grant with BWSR and asked if the Commission would authorize the Chair to sign the contract. Commissioner Black moved to approve authorization of the Chair to sign the contract between the Commission and BWSR for the grant. Commissioner deLambert seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].
- G. **Lost Lake Vegetative Management Plan.** Commissioner Black requested that the item be removed from the agenda and the Commission approved the request under Agenda item 2, approval of the agenda.

H. **Education Committee.**

- i. Commissioner Langsdorf reported that the West Metro Water Alliance (WMWA) workshops begin March 23rd and that she would like the e-mail announcement that was sent to the Commission also go out to the member-cities advisory committees. She requested that the commissioners forward the e-mail to their city's managers.
 - ii. Commissioner Langsdorf said that information will be coming out soon on how to register for the WMWA workshops.
 - iii. Commissioner Langsdorf announced that the Metro Blooms rain garden workshops will be coming soon and that more information on the workshops are in the Education Committee meeting minutes in the Commission's meeting packet.
 - iv. Commissioner Langsdorf reported that the draft Education and Outreach Plan was completed by the Committee and submitted to Administrator Nash.
 - v. Commissioner Langsdorf stated that the Plymouth Yard and Garden Expo will be held on April 8 – 9th and the Zachary Lane Environmental Quality Fair will held on April 29th.
 - vi. Commissioner Langsdorf announced that she is stepping down as the Chair of the Education Committee effective today and that a new Chair is needed.
- I. **Wirth Lake Park Improvements.** Ms. Chandler said that the Commission discussed and conditionally approved improvements to the park at last month's meeting but since that time there have been some significant changes. She said that one change is that the treatment pond that was proposed for treating runoff from Highway 55 has been eliminated from the project. Ms. Chandler reported that another change is that four sump manholes that were proposed have been removed from the project. She said the remaining BMPs in the project include one bioretention basin, one sump manhole, and pervious pavers in the parking area. Ms. Chandler said that the Commission Engineer reviewed the project considering that the project would disturb 3.7 acres, requiring the project to meet non-degradation requirements meaning that the amount of phosphorous coming off of the site cannot increase from the amount currently coming off of the site.

Ms. Weber of the Minneapolis Park and Recreation Board addressed some questions about asphalt paths planned for the park. Ms. Chandler said that the project will be meeting the nondegradation requirements and that the Commission Engineer recommends conditional approval with the five conditions listed in the February 15, 2011, version of the memo by Barr Engineering Company.

Commissioner Welch moved approval of the project with the Commission Engineer conditions

listed in the February 15, 2011, memo. Commissioner Black seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

7. Communications

A. Chair:

- i. Chair Loomis announced that Stu Stockhaus has resigned as the alternate commissioner of Crystal but is willing to serve until June unless a replacement is found earlier.
- ii. Chair Loomis reported that the cities of Medicine Lake and Minneapolis still need to pay their assessment to the BCWMC.

B. Administrator:

- i. Administrator Nash announced that he met with representatives of the Department of Natural Resources, Lower Minnesota River Watershed District, Nine Mile Creek Watershed District, and Minnehaha Creek Watershed District to discuss ground water monitoring across Hennepin County. He said that the DNR is seeking a partner to take over this responsibility.
- ii. Administrator Nash reported that he has scheduled a meeting with Joel Settles of Hennepin County to talk about ground water protection planning to try to get the County involved in writing a ground water protection plan. He said that he has been attending these ground water meetings in his role as a Nine Mile Creek representative.
- iii. Administrator Nash said that the Medicine Lake TMDL has been formally approved by the U.S. Environmental Protection Agency effective February 8, 2011.
- iv. Administrator Nash said he updated Hennepin County Environmental Services on its request for details on funding for the two stream bank restoration projects because the County is going to be briefing the state Legislature. He said that Joel Settles recommended that the Commission write letters to their Hennepin County Commissioners extolling the good works being done by the Clean Water Legacy grant funding. The Commission directed Administrator Nash to draft a letter to the Hennepin County Commissioners and to send it to the public works director of the BCWMC member cities and request that they send a similar letter to their County Commissioner.
- v. Administrator Nash mentioned that he forwarded a proposed SEC ruling to Kennedy and Graven and that he had received it from Springsted, Inc. Mr. Gilchrist said the proposed ruling derived from the Frank Dodd Act regarding municipal advisors needing to be registered with the SEC. He said that he doesn't interpret the proposed ruling as that the Commission members would need to be registered.

C. Commissioners:

- i. Commissioner Welch announced that he is passing around the Mississippi Watershed Management Organization newsletter discussing the Nature of Water DVD that is produced in multiple languages.
- ii. Commissioner Welch discussed the handout that summarizes BWSR's direction with the 8410 rules revision and he encouraged the Commission to look at the summary.

D. Committees: No Communications.

E. Counsel: No Communications.

F. Engineer: Ms. Chandler announced that the next 8410 Rules Revision Committee meeting will be held next Friday.

8. Adjournment

Mayor Loomis adjourned the meeting at 3:02 p.m.

Linda Loomis, Chair Date

Amy Herbert, Recorder Date

Jim deLambert, Secretary Date

MEETING DATE: March 17, 2011

BEGINNING BALANCE	8-Feb-11		739,395.79
ADD:			
General Fund Revenue:			
Interest		(14.12)	
2012	2011-12 Assessments:		
	Medicine Lake	3,301.00	
	Assessment not received - Minneapolis		
	Permits:		
	S E H	2011 GV Pavement Mgmt	1,000.00
	Anderson-Johnson	GV Little League Fields	2,000.00
	Venture Bank	Venture Bank-GV	1,500.00
	RJM Construction	Ply Business Ctr Parking	2,000.00
	Reimbursed Construction Costs	10,774.25	
	Total Revenue and Transfers In	20,561.13	
DEDUCT:			
Checks:			
2323 Amy Herbert	Feb Secretarial Services	2,787.46	
2324 Barr Engineering	Feb Engineering Services	32,184.69	
2325 D'Amico Catering	Mar Meeting	359.37	
2326 Watershed Consulting	Feb Administrator	3,015.17	
2327 MMKR	Audit Services	1,500.00	
2328 JASS	2011 WMWA Workshops	279.50	
2329 Shingle Creek Watershed	2011 WMWA Workshops	364.17	
2330 JASS	2011 WMWA Gen Exp	141.73	
2331 Shingle Creek Watershed	2011 WMWA Gen Exp	518.66	
	Total Checks	41,150.75	
Outstanding from previous years-Prior Year Expenses:			
Meadowbrook School	2009 Exp-Grant	992.08	
2316 West Metro Water Alliance	2010 Exp-Grant	2,969.50	
ENDING BALANCE	9-Mar-11		718,806.17

	2011/2012 BUDGET	CURRENT MONTH	YTD 2011/2012	BALANCE
OTHER GENERAL FUND REVENUE				
ASSESSMENTS	434,150	3,301.00	402,776.00	31,374.00
PERMIT REVENUE	40,000	6,500.00	6,500.00	33,500.00
GRANTS	0	0.00	0.00	0.00
MISCELLANEOUS	0	0.00	0.00	0.00
INTEREST	0	0.00	0.00	0.00
REVENUE TOTAL	474,150	9,801.00	409,276.00	64,874.00
EXPENDITURES				
ENGINEERING				
ADMINISTRATION	110,000	8,573.00	8,573.00	101,427.00
PLAT REVIEW	50,000	5,275.50	5,275.50	44,724.50
COMMISSION MEETINGS	13,000	1,102.00	1,102.00	11,898.00
SURVEYS & STUDIES	20,000	2,835.50	2,835.50	17,164.50
WATER QUALITY/MONITORING	34,000	2,028.00	2,028.00	31,972.00
WATER QUANTITY	11,000	431.52	431.52	10,568.48
WATERSHED INSPECTIONS	8,000	900.00	900.00	7,100.00
ANNUAL FLOOD CONTROL INSPECTIONS	10,000	0.00	0.00	10,000.00
REVIEW MUNICIPAL PLANS	2,000	0.00	0.00	2,000.00
ENGINEERING TOTAL	258,000	21,145.52	21,145.52	236,854.48
ADMINISTRATOR	36,000	3,015.17	3,015.17	32,984.83
LEGAL COSTS	18,500	0.00	0.00	18,500.00
AUDIT, INSURANCE & BONDING	15,000	1,500.00	1,600.00	13,400.00
FINANCIAL MANAGEMENT	3,000	0.00	0.00	3,000.00
MEETING EXPENSES	4,750	359.37	679.69	4,070.31
SECRETARIAL SERVICES	45,000	3,038.13	3,038.13	41,961.87
PUBLICATIONS/ANNUAL REPORT	2,000	0.00	0.00	2,000.00
WEBSITE	4,500	14.25	14.25	4,485.75
PUBLIC COMMUNICATIONS	3,000	0.00	0.00	3,000.00
WOMP	10,000	0.00	0.00	10,000.00
DEMONSTRATION/EDUCATION GRANTS	5,000	0.00	0.00	5,000.00
EDUCATION AND PUBLIC OUTREACH	2,900	1,304.06	1,304.06	1,595.94
WATERSHED EDUCATION PARTNERSHIPS	16,500	0.00	0.00	16,500.00
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)	0	0.00	0.00	0.00
GRAND TOTAL	474,150	30,376.50	30,796.82	443,353.18

BCWMC Construction Account
Fiscal Year: February 1, 2011 through January 31, 2012
March 2012 Financial Report

(UNAUDITED)

Beginning Balance	8-Feb-11	1,633,170.98
ADD:		
Interest		(31.20)
		(31.20)
DEDUCT:		
Construction Costs		10,774.25
		10,774.25
Ending Balance:	9-Mar-11	1,622,365.53

Investments

Federal Home Loan Mtg Corp - Purchased 8/12/10 - Due 5/13/2015 - 0.45% (Current mkt value \$501,622.14)	508,918.39
Federal Home Loan Mtg Corp - Purchased 1/14/11 - Due 9/16/2015 - 0.5% (Current mkt value \$507,801.00)	512,059.83
Federal National Mtg Assn - Purchased 2/3/11 - Due 3/18/2014 - 2.25% (Current mkt value \$1,000,941.66)	1,010,687.50
Total Investments	2,031,665.72
Construction Account - Cash Balance (detailed above)	1,622,365.53

Total: Construction Fund Cash/Investments	3,654,031.25
Less: Reserved for CIP Projects	4,986,804.86
Construction Cash/Investments Available for projects	(1,332,773.61)

BCWMC Second Generation Projects	Budget	Current	YTD	Project Total	Balance
Approved CIP Projects:					
2006 Parkers Lake Water Quality Project	56,000	0.00	0.00	55,920.84	79.16
Twin Lake-expected completion 2006	140,000	0.00	0.00	5,724.35	134,275.65
Westwood Lake - will closed in 2010	312,000	0.00	0.00	225,864.90	86,135.10
Proposed CIP Projects:					
Lakeview Park Pond-expected completion 2007		296.50	296.50	934.00	(934.00)
West Medicine Lake Park Pond	1,100,000	0.00	0.00	744,633.58	355,366.42
Budget increase Resolution 08-07 (200,000)					
Northwood Lake East Pond	107,250	0.00	0.00	71,831.27	35,418.73
Crane Lake - Ramada Inn Pond	90,000	0.00	0.00	39.00	89,961.00
Plymouth Creek Channel Restoration	550,000	0.00	0.00	59,034.20	490,965.80
Plymouth Creek Feasibility	0	0.00	0.00	1,936.00	(1,936.00)
Bassett Creek Feasibility	0	0.00	0.00	12,304.40	(12,304.40)
Twins Stadium	0	0.00	0.00	19,463.42	(19,463.42)
Crystal-Regent Avenue (2010 CR)	0	0.00	0.00	10,233.00	(10,233.00)
Wisc Ave/Duluth Street-Crystal (2011 CR)	580,200	0.00	0.00	34,803.97	545,396.03
Main Stem Crystal to Regent (2011)	636,100	0.00	0.00	813.45	635,286.55
Main Stem Channel Restoration (2011)	580,200	0.00	0.00	0.00	580,200.00
North Branch (2011 CR-NB)	834,900	0.00	0.00	31,522.86	803,377.14
Plymouth Pond-07(NL-2)	0	810.25	810.25	1,412.25	(1,412.25)
Wirth Lake (WTH-1,2,3)	0	3,535.50	3,535.50	6,445.50	(6,445.50)
Sweeney Lake Outlet (2012 FC-1)	0	969.50	969.50	5,419.50	(5,419.50)
MS Irving Ave to GV Road (2012 CR)	0	3,305.50	3,305.50	5,025.50	(5,025.50)
Schaper Pond Enhancement (SL-1)	0	1,607.00	1,607.00	1,607.00	(1,607.00)
Resource Management Plan	0	0.00	0.00	57,094.21	(57,094.21)

TMDL Projects

TMDL Studies	125,000	0.00	0.00	102,588.15	22,411.85
Sweeney Lake TMDL	119,000	250.00	250.00	207,182.36	(88,182.36)

Annual Flood Control Projects:

Flood Control Emergency Maintenance	500,000	0.00	0.00	0.00	500,000.00
Flood Control Long-Term Maintenance	773,373	0.00	0.00	13,566.33	759,806.67

Annual Water Quality

Channel Maintenance Fund	200,000	0.00	0.00	41,818.10	158,181.90
	6,704,023	10,774.25	10,774.25	1,717,218.14	4,986,804.86

Project Reimbursements

Twins Stadium	0.00	0.00	26,959.64
Sweeney Lake TMDL	0.00	0.00	154,123.94

Tax Levy Revenues

	County Levy	Abatements / Adjustments	Adjusted Levy	Current Received	Year to Date Received	Inception to Date Received	Balance	BCWMO Levy
2011 Tax Levy	862,400.00		862,400.00				862,400.00	862,400
2010 Tax Levy	935,298.91	(1,660.13)	933,638.78			921,936.47	11,702.31	935,000
2009 Tax Levy	800,841.30	(6,550.93)	794,290.37			791,628.41	2,661.96	800,000
2008 Tax Levy	908,128.08	(3,381.33)	904,746.75			903,232.32	1,514.43	907,250
2007 Tax Levy	190,601.74	(640.14)	189,961.60			189,863.23	98.37	190,000
2006 Tax Levy	531,095.47	(2,721.10)	528,374.37			528,403.53	(29.16)	519,000
2005 Tax Levy	450,401.40	(2,380.36)	448,021.04			448,065.77	(44.73)	438,000
				0.00			878,303.18	

Bassett Creek Construction Project Details																			
		Parkers Lake Water Quality (Circle Pond)	Twin Lake	Westwood Lake	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Channel Maintenance	West Medicine Lake Park Pond	Lakeview Park Pond	Northwood Lake East Pond	Crane Lake - Ramada Inn Pond	2010 Plymouth Creek Channel Restoration	Plymouth Creek Feasibility	Bassett Creek Feasibility	Twins Stadium	Crystal - Regent Ave	2011 Wisc Ave (Duluth Str)- Crystal (GV)	2011 Main Stem Crystal to Regent	2011 Main Stem Channel Restoration
Totals																			
Original Budget	6,704,023	56,000	140,000	312,000	500,000	773,373	200,000	1,100,000		107,250	90,000	550,000					580,200	636,100	580,200
Expenditures:																			
Feb 2004 - Jan 2005	2,621.00		1,983.50						637.50										
Feb 2005 - Jan 2006	21,373.76	983.75	1,716.70	11,724.12		3,954.44	2,994.75												
Feb 2006 - Jan 2007	175,366.15	150.00	375.70	162,645.36		9,611.89		1,789.25											
Feb 2007 - Jan 2008	129,184.06		36.00					1,835.70		858.45					156.75				
Feb 2008 - Jan 2009	223,868.87						38,823.35	18,392.11		60,218.68	39.00	20,954.25			13,312.47				
Feb 2009 - Jan 2010	216,530.85	2,300.49	1,612.45	51,495.42				687.00		10,754.14		7,383.95	1,936.00	11,569.05	3,856.00				
Feb 2010 - Jan 2011	937,499.20	52,486.60						721,929.52				30,696.00	191.00	544.35	2,138.20	10,233.00	34,803.97	813.45	
Feb 2011 - Jan 2012	10,774.25								296.50										
Total Expenditures:	1,717,218.14	55,920.84	5,724.35	225,864.90		13,566.33	41,818.10	744,633.58	934.00	71,831.27	39.00	59,034.20	2,127.00	12,113.40	19,463.42	10,233.00	34,803.97	813.45	
Project Balance	4,986,804.86	79.16	134,275.65	86,135.10	500,000.00	759,806.67	158,181.90	355,366.42	(934.00)	35,418.73	89,961.00	490,965.80	(2,127.00)	(12,113.40)	(19,463.42)	(10,233.00)	545,396.03	635,286.55	580,200.00

	Totals	Parkers Lake Water Quality (Circle Pond)	Twin Lake	Westwood Lake	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Channel Maintenance	West Medicine Lake Park Pond	Lakeview Park Pond	Northwood Lake East Pond	Crane Lake - Ramada Inn Pond	2010 Plymouth Creek Channel Restoration	Plymouth Creek Feasibility	Bassett Creek Feasibility	Twins Stadium	Crystal - Regent Ave	2011 Wisc Ave (Duluth Str)- Crystal (GV)	2011 Main Stem Crystal to Regent	2011 Main Stem Channel Restoration
Project Totals By Vendor																			
Barr Engineering	440,510.09	2,819.94	3,758.10	11,320.87		9,549.32		7,004.91	889.00		39.00	35,603.60	1,936.00	10,604.50	14,164.49	10,233.00	34,011.32		
Kennedy & Graven	19,313.97	614.30	1,966.25	503.25		24.75		1,427.15	45.00	858.45		869.05	191.00	1,508.90	5,298.93		792.65		
City of Golden Valley	2,640.00																		
City of New Hope	70,972.82																		
City of Plymouth	827,511.47	52,486.60					38,823.35	736,201.52		70,972.82									
City of St. Louis Park	214,040.78			214,040.78															
Com of Trans	3,992.26					3,992.26													
S E H	100,375.60																		
Misc	14,486.15																		
2.5% Admin Transfer	23,375.00											22,561.55						813.45	
Total Expenditures	1,717,218.14	55,920.84	5,724.35	225,864.90		13,566.33	41,818.10	744,633.58	934.00	71,831.27	39.00	59,034.20	2,127.00	12,113.40	19,463.42	10,233.00	34,803.97	813.45	

	Totals	Parkers Lake Water Quality (Circle Pond)	Twin Lake	Westwood Lake	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Channel Maintenance	West Medicine Lake Park Pond	Lakeview Park Pond	Northwood Lake East Pond	Crane Lake - Ramada Inn Pond	2010 Plymouth Creek Channel Restoration	Plymouth Creek Feasibility	Bassett Creek Feasibility	Twins Stadium	Crystal - Regent Ave	2011 Wisc Ave (Duluth Str)- Crystal (GV)	2011 Main Stem Crystal to Regent	2011 Main Stem Channel Restoration
Levy Details																			
2009/2010 Levy	935,000											902,462						32,538	
2010/2011 Levy	862,400																160,700	286,300	



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

Page # 1
Invoice # 23270051-2010-11
Project # 23/27-0051
Client # 59
March 4, 2011

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
January 29, 2011 through February 25, 2011

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, 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 administrator regarding post-meeting tasks; provided floodplain information to Golden Valley staff, prepared and sent email summarizing floodplain data and monitoring staff gage locations along Bassett Creek to Golden Valley; reviewed 2011 budgets; prepared memo regarding spring snowmelt for February meeting; reviewed Plan Amendment, telephone conversation with administrator regarding administrative CIP charges.

Leonard J. Kremer, Principal Engineer/Scientist	
8.3 hours @ \$160.00 per hour	\$ 1,328.00
James P. Herbert, Principal Engineer/Scientist	
2.8 hours @ \$145.00 per hour	\$ 406.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
1.9 hours @ \$145.00 per hour	\$ 275.50
Jennifer A. Koehler, Engineer/Scientist/Specialist II	
2.9 hours @ \$95.00 per hour	\$ 275.50
Technicians/Administrative	\$ 280.00
<i>Subtotal, Technical Services.....</i>	<i>\$ 2,565.00</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; telephone conversation with AJA regarding Honeywell development; telephone call with James R Hill regarding Plymouth development; communication with Anderson Engineering regarding site redevelopment in Plymouth; prepared email regarding status of Van White Memorial Boulevard to city of Minneapolis staff; telephone call regarding Lake West development in Golden Valley; telephone conversation with Inspec regarding Armstrong High School in Plymouth; correspondence with HGA

regarding site improvements; conversation regarding Golden Valley/Honeywell Little League fields; call from CEI regarding Plymouth site; phone call with Plymouth staff regarding proposed site plans.

James P. Herbert, Principal Engineer/Scientist	
5.8 hours @ \$145.00 per hour	\$ 841.00
Technicians/Administrative	\$ 80.00
<i>Subtotal, Preliminary Site Review/Correspondence</i>	<i>\$ 921.00</i>

MONTHLY MEETING PREPARATION

Preparation of monthly memorandum for BCWMC meeting; reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with Bassett Creek administrator and recording administrator; conference call with BCWMC Chair, administrator, and recording administrator regarding meeting agenda; communications with administrator and recording administrator; internal meetings regarding agenda, to-do list and meeting packet and February 17, 2011 meeting; prepared permit figures; communications with recording administrator and administrator regarding meeting agenda; telephone call from administrator regarding February agenda items and 2010 CIP project budget.

Leonard J. Kremer, Principal Engineer/Scientist	
2.5 hours @ \$160.00 per hour	\$ 400.00
James P. Herbert, Principal Engineer/Scientist	
8.6 hours @ \$145.00 per hour	\$ 1,247.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
11.8 hours @ \$145.00 per hour	\$ 1,711.00
Technicians/Administrative	\$ 40.00
<i>Subtotal, Monthly Meeting Preparation</i>	<i>\$ 3,398.00</i>

WETLAND ISSUES

Preparation of annual wetland report and provided to BWSR.

James P. Herbert, Principal Engineer/Scientist	
2.0 hours @ \$145.00 per hour	\$ 290.00
<i>Subtotal, Wetland Issues</i>	<i>\$ 290.00</i>

TAC MEETING PREPARATION

Preparation for February 4, 2011 TAC meeting including coordination with administrator and internal staff regarding TAC meeting agenda and background materials; review of city CIP submissions, and calls from city staff; reviewed and revised draft TAC memo; call from administrator regarding February TAC meeting.

Leonard J. Kremer, Principal Engineer/Scientist	
2.4 hours @ \$160.00 per hour	\$ 384.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
7.0 hours @ \$145.00 per hour	\$ 1,015.00

Subtotal, TAC Meeting Preparation \$ 1,399.00
Subtotal Technical Services \$ 8,573.00

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.

9209 40-1/2 Avenue North

Reviewed submittal from New Hope regarding mitigation of floodplain fill; reviewed historical submittals and technical data; prepared memorandum to the BCWMC.

James P. Herbert, Principal Engineer/Scientist
3.0 hours @ \$145.00 per hour \$ 435.00
Subtotal, 9209 40-1/2 Avenue North..... \$ 435.00

Wirth Lake 2010 Site Improvements

Communications with applicant and City staff; several telephone calls with applicant; responded to question about impervious area definitions; reviewed DNR permit application and prepared comments to DNR; prepared and distributed final letter of recommendation for initial submittal; discussions regarding eliminating the TH 55 pond with applicant and city; reviewed applicant comments and request to remove pond from project and provided request to BCWMC; reviewed revised Phase II plans and stormwater and water quality plan; reviewed revised technical memo and modeling information from applicant; communication with MPRB and its consultant; prepared revised memo to the BCWMC; internal meeting to discuss revised project and site improvements; prepared letter of recommendation to the City of Golden Valley.

Leonard J. Kremer, Principal Engineer/Scientist
1.7 hours @ \$160.00 per hour \$ 272.00
James P. Herbert, Principal Engineer/Scientist
15.7 hours @ \$145.00 per hour \$ 2,276.50
Karen L. Chandler, Engineer/Scientist/Specialist III
3.8 hours @ \$145.00 per hour \$ 551.00
Gregory J. Wilson, Engineer/Scientist/Specialist III
0.5 hours @ \$140.00 per hour \$ 70.00
Rita A. Weaver, Engineer/Scientist/Specialist III
2.7 hours @ \$105.00 per hour \$ 283.50
Subtotal, Wirth Lake 2010 Site Impr..... \$ 3,453.00

2011 Golden Valley PMP

Communication with applicant; reviewed street reconstruction plans; prepared memo to BCWMC; prepare letter of recommendation to the City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
5.0 hours @ \$145.00 per hour	\$ 725.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
1.6 hours @ \$145.00 per hour	\$ 232.00
Rita A. Weaver, Engineer/Scientist/Specialist III	
4.1 hours @ \$105.00 per hour	\$ 430.50
<i>Subtotal, 2011 Golden Valley PMP</i>	<i>\$ 1,387.50</i>
<i>Subtotal Plat Review</i>	<i>\$ 5,275.50</i>

COMMISSION MEETINGS

Attended February 4, 2011 TAC meeting and February 17, 2011 BCWMC meeting and post-meeting administrative discussion.

Karen L. Chandler, Engineer/Scientist/Specialist III	
7.6 hours @ \$145.00 per hour	\$ 1,102.00
<i>Subtotal, Commission Meetings</i>	<i>\$ 1,102.00</i>

SURVEYS AND STUDIES

Preparation of the draft report for Sediment Phosphorus-Internal Loading Investigation of Twin Lake; analysis of historical data to determine cause of current internal loading problem; reviewed Twin Lake historical data to explain internal loading changes; prepared historical data graphs; reviewed internal loading management options; prepared Twin Lake Water Quality Report.

Leonard J. Kremer, Principal Engineer/Scientist	
4.5 hours @ \$160.00 per hour	\$ 720.00
Henry M. Runke, Principal Engineer/Scientist	
2.0 hours @ \$165.00 per hour	\$ 330.00
Brian J. Huser, Engineer/Scientist	
13.2 hours @ \$110.00 per hour	\$ 1,452.00
Margaret R. Rattei, Senior Consultant	
2.9 hours @ \$115.00 per hour	\$ 333.50
<i>Subtotal, Water Quality Monitoring</i>	<i>\$ 2,835.50</i>

WATER QUALITY MONITORING

Performed trend analyses and revised Medicine Lake Report.

Leonard J. Kremer, Principal Engineer/Scientist	
2.5 hours @ \$160.00 per hour	\$ 400.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
0.5 hours @ \$145.00 per hour	\$ 72.50
Margaret R. Rattei, Senior Consultant	
11.7 hours @ \$115.00 per hour	\$ 1,345.50

Christopher J. Bonick, Engineer/Scientist/Specialist II
2.0 hours @ \$105.00 per hour\$ 210.00
Subtotal, Water Quality Monitoring\$ 2,028.00

WATER QUANTITY

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

Technicians/Administrative\$ 382.50
Expenses (Mileage/field vehicle).....\$ 49.02
Subtotal, Water Quantity\$ 431.52

WATERSHED INSPECTION

Prepared flood control inspection report and letters to municipalities.

James P. Herbert, Principal Engineer/Scientist
4.0 hours @ \$145.00 per hour\$ 580.00
Technicians/Administrative\$ 320.00
Subtotal, Watershed Inspection\$ 900.00

TOTAL ENGINEERING\$ 21,145.52

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including: copies, color copies for meeting packet; postage, CD duplication, video digital capture/conversion and BCWMC meeting catering; packet assembly; report assembly.

Expenses (B&W/color copies/postage/Cisco Webex)\$ 264.92
Catering (BCWMC)\$ -0-

TOTAL SECRETARIAL SERVICES EXPENSES\$ 264.92

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

TOTAL WOMP.....\$ 0.00

Timothy P. Brown, Engineer/Scientist/Specialist II	
2.2 hours @ \$115.00 per hour	\$ 253.00
<i>Subtotal, Lakeview Park Pond.....</i>	<i>\$ 296.50</i>

PLYMOUTH POND NB-07 (NL-2)

Attended meeting with City of Plymouth staff regarding project process and stormwater management ideas/challenges and to discuss WalMart development at Four Seasons Mall site; discussed Plymouth LCA Grant.

Kurt A. Leuthold, Principal Engineer/Scientist	
2.7 hours @ \$145.00 per hour	\$ 145.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
2.8 hours @ \$145.00 per hour	\$ 406.00
Expenses (Mileage/field vehicle).....	\$ 12.75
<i>Subtotal, Pond NB-07.....</i>	<i>\$ 810.25</i>

WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Coordination regarding feasibility study and major plan amendment and schedule/process; reviewed background information and prepared memos for February meeting regarding major plan amendment (and draft letter to BWSR), feasibility studies, and funding 2012 CIP projects; call to Joel Settles regarding BCWMC's proposed major plan amendments and coordination with County schedules; final edits to major plan amendment, meeting with City of Golden Valley regarding outlet structure.

Leonard J. Kremer, Principal Engineer/Scientist	
3.5 hours @ \$160.00 per hour	\$ 560.00
James P. Herbert, Principal Engineer/Scientist	
2.2 hours @ \$145.00 per hour	\$ 319.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
5.6 hours @ \$145.00 per hour	\$ 812.00
Timothy P. Brown, Engineer/Scientist/Specialist II	
15.9 hours @ \$115.00 per hour	\$ 1,828.50
<i>Subtotal, Wirth Lake Outlet Modification (Admin).....</i>	<i>\$ 3,519.50</i>

WIRTH LAKE OUTLET MODIFICATION – FEASIBILITY STUDY (WTH-4)

Technicians/Administrative.....	\$ 16.00
<i>Subtotal, Wirth Lake Outlet Modification (Feasibility)</i>	<i>\$ 16.00</i>

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

Coordination regarding feasibility study and major plan amendment and schedule/process; reviewed background information and prepared memos for February meeting regarding major plan amendment (and draft letter to BWSR), review availability of funds for 2012 CIP projects; call to Joel Settles regarding BCWMC's proposed major plan amendments and coordination with County schedules; final edits to major plan amendment, meeting with City of Minneapolis regarding project.

Leonard J. Kremer, Principal Engineer/Scientist	
2.4 hours @ \$160.00 per hour	\$ 384.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
5.5 hours @ \$145.00 per hour	\$ 797.50
Timothy P. Brown, Engineer/Scientist/Specialist II	
17.7 hours @ \$115.00 per hour	\$ 2,035.50
<i>Subtotal, Irving Avenue to Golden Valley Rd (Admin)</i>	<i>\$ 3,217.00</i>

IRVING AVE (CONDUIT ENTRANCE) TO GOLDEN VALLEY RD – FEAS. STUDY (2012 CR)

Karen L. Chandler, Engineer/Scientist/Specialist III	
0.5 hours @ \$145.00 per hour	\$ 72.50
Technicians/Administrative.....	\$ 16.00
<i>Subtotal, Irving Avenue to Golden Valley Rd (Feasibility)</i>	<i>\$ 88.50</i>

SCHAPER POND ENHANCEMENT (SL-1)

Coordination regarding TMDL feasibility study; reviewed background information and prepared memo for February meeting regarding feasibility study for Schaper Pond and funding 2012 CIP project.

Leonard J. Kremer, Principal Engineer/Scientist	
3.7 hours @ \$160.00 per hour	\$ 592.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
1.4 hours @ \$145.00 per hour	\$ 203.00
Keith M. Pilgrim, Engineer/Scientist/Specialist III	
5.0 hours @ \$130.00 per hour	\$ 650.00
Nathan D. Campeau, Engineer/Scientist/Specialist II	
1.0 hours @ \$110.00 per hour	\$ 110.00
<i>Subtotal, Schaper Pond Enhancement (Admin)</i>	<i>\$ 1,555.00</i>

SCHAPER POND ENHANCEMENT – FEASIBILITY STUDY (SL-1)

Keith M. Pilgrim, Engineer/Scientist/Specialist III	
0.4 hours @ \$130.00 per hour	\$ 52.00
<i>Subtotal, Schaper Pond Enhancement (Feasibility)</i>	<i>\$ 52.00</i>

TOTAL CAPITAL IMPROVEMENT PROJECTS
(Tax Levy) \$ 9,554.75

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

SWEENEY LAKE OUTLET REPLACEMENT CIP (FC-1)

Coordination regarding feasibility study and major plan amendment and schedule/process; reviewed background information and prepared memos for February meeting regarding major plan amendment (and draft letter to BWSR), review availability of funds for 2012 CIP projects; call to BWSR regarding BCWMC's proposed major plan amendments and coordination with County schedules; final edits to major plan amendment.

Leonard J. Kremer, Principal Engineer/Scientist		
3.7 hours @ \$160.00 per hour	\$	592.00
Karen L. Chandler, Engineer/Scientist/Specialist III		
0.7 hours @ \$145.00 per hour	\$	101.50
Timothy P. Brown, Engineer/Scientist/Specialist II		
2.4 hours @ \$115.00 per hour	\$	276.00
<i>Subtotal, Sweeney Lake Outlet Replacement CIP</i>	<i>\$</i>	<i>969.50</i>
TOTAL CAPITAL IMPROVEMENT PROJECTS		
(Maintenance Funds)	\$	969.50

TMDL STUDIES

SWEENEY LAKE TMDL

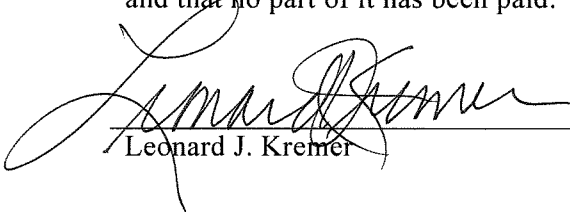
Coordination and follow up regarding Sweeney Lake TMDL and comment letter.

Leonard J. Kremer, Principal Engineer/Scientist		
1.2 hours @ \$160.00 per hour	\$	192.00
Karen L. Chandler, Engineer/Scientist/Specialist III		
0.4 hours @ \$145.00 per hour	\$	58.00
<i>Subtotal, Sweeney Lake TMDL</i>	<i>\$</i>	<i>250.00</i>
TOTAL TMDL STUDIES.....	\$	250.00

SUMMARY TOTALS

Total Engineering.....	\$ 21,145.52
Total Secretarial Services Expenses	\$ 264.92
Total WOMP	\$ 0.00
Total Capital Improvement Projects (Tax Levy)	\$ 9,554.75
Total Capital Improvement Projects (Maintenance Funds)	\$ 969.50
Total TMDL Studies	\$ <u>250.00</u>
TOTAL PAYABLE	\$ 32,184.69

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

INVOICE
Geoff Nash, Watershed Consulting, LLC
6920 Hillcrest Lane
Edina, MN 5435
952-925-5119

INVOICE DATE: 3/8/11

Client: Bassett Creek Watershed
Management Commission

Dates: February 1-28, 2011

Task/Project	2/1/11	2/2/11	2/3/11	2/4/11	2/7/11	2/8/11	2/9/11	2/10/11	2/11/11	2/14/11	2/15/11	2/16/11	2/17/11	2/18/11	2/21/11	2/22/11	2/23/11	2/24/11	2/25/11	2/28/11	Month
Administrative.	1.0	1.0	1.0	1.0	2.0	2.0	1.0	2.5	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	22.5
Commission Meeting/Prep.						2.0				2.0		2.0	5.0								11.0
Administrative Committee Meeting/Prep.								0.5		1.0											1.5
Golden Valley/Plymouth BWSR Grant Reporting																					0.0
Education/Outreach Committee	1.0					0.5				1.0											2.5
TAC Meeting/Prep.	2.0	3.0		5.0			3.0											2.0		2.0	17.0
Medicine Lk. TMDL																					0.0
Sweeney Lk. TMDL							1.0														1.0
Wirth Lk. TMDL																					0.0
Wirth Lake BWSR Grant Reporting			1.0				1.0		1.0									2.0			5.0
Hennepin Co. Groundwater Planning									2.0												2.0
Communication with Commission/Consultants																					0.0
Policy Manual																					0.0
Major Amendment WMP																					0.0
Third-party meeting/prep.																					0.0
CIP																					0.0
Daily Total:	0.0	4.0	4.0	2.0	6.0	2.0	4.5	5.0	4.0	4.0	5.0	1.0	3.0	5.0	1.0	1.0	1.0	5.0	1.0	3.0	
Weekly Hours:				16.0				19.5				15.0						9.0			
Monthly Hours:																				3.0	62.5
Hourly Charges (at \$47/hr):																					\$2,937.50
Actual Hourly Charges:																					\$2,937.50
Unbilled Charges:																					\$0.00

Expenses:	2/1/11	2/2/11	2/3/11	2/4/11	2/7/11	2/8/11	2/9/11	2/10/11	2/11/11	2/14/11	2/15/11	2/16/11	2/17/11	2/18/11	2/21/11	2/22/11	2/23/11	2/24/11	2/25/11	2/28/11	Month
Telephone										34	15	6	37								\$50.88
Printing-black&white (\$0.15/sheet)		4								4											\$14.40
Printing-color (\$0.50/sheet)											0.44										\$2.00
Postage (\$0.44 ea.)																					\$0.19
Office products/ext. copying																					\$0.00
Mileage (\$0.51/mile)			20																		\$10.20
Expenses:																					\$77.67

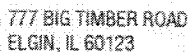
Total invoice amount:

\$3,015.17

Watershed Consulting, LLC
6920 Hillcrest Lane
Edina, MN 55435
(952) 925-5119 office
(952) 240-3025 cell.

See attached Verizon invoices.

Note: Current Verizon invoice - original Verizon invoice = BCWMC monthly billed amount.



Date Due

Visit us at www.ellieuniversity.com

Invoice Number

2534905692

10040673 02 AT 0.482 "AUTO" T40 3522 55435-102620 1 5 F GTP:2005

[illegible]

CAMILLE NASH
6920 HILLCREST LN
EDINA, MN 55435-1606

Quick Summary

3/21
Pd Jan 23

Payment Due (see back for details)	\$195.74
Payment — Thank You	-\$195.74
Adjustments	-\$29.97
Credit Balance	-\$29.97
Monthly Access Charges	\$159.32
Usage Charges	
Voice	\$0.00
Messaging	\$0.00
Verizon Wireless® Surcharges and Other Charges & Credits	\$9.02
Taxes, Governmental Surcharges & Fees	\$16.77
Total Current Charges	\$185.11

Change To Your Service

Thank you for your wireless business. You recently made a change to your service. Your new bill will reflect usage from your last bill and service adjustments resulting from the plan/feature change.

Total Charges Due by March 17, 2011

\$155.14

Previous Invoice

13423

185 11
134 23

Feb. Amt Due \rightarrow \$50.88

Pay from Wireless

Pay on the Web

Questions:



By Date

February 22, 2011

Account Number

References

2534905692

CAMILLE NASH
6920 HILLCREST LN
EDINA, MN 55435-1606

Total Amount Due by March 17, 2011

Make check payable to Verizon Wireless.
Please return this remit slip with payment.

\$155.14

\$

P.O. BOX 25505
LEHIGH VALLEY, PA 18002-5505



Check here and fill out the back of this slip if your billing address has changed or you are adding or changing your email address.

2534905692010880670335000010000185110000155149

Amy Herbert · Virtual Administrator Services

bcra@barr.com · 952-832-2652

March 1, 2011

Bassett Creek Watershed Management Commission (BCWMC)

Attn: Sue Virnig, Deputy Treasurer

7800 Golden Valley Road

Golden Valley, MN 55427

For contracted services February 1, 2011, through February 28, 2011

Administrative Services to BCWMC

- Organized the February 17th BCWMC packet materials for copying; copied and assembled meeting packets, delivered meeting packets to Barr Engineering mail room for Barr to weigh, add postage, and mail; posted materials online and e-mailed link to online meeting materials to Commission; e-mailed agenda to agenda list and e-mailed approved meeting minutes to distribution list.
- Maintained BCWMC files; Communicated with BCWMC attorney, engineers, Administrator, Deputy Treasurer, Chair, commissioners, and committee members and performed administrative duties as asked by those parties.
- Organized BCWMC monthly invoices; Distributed invoice payments.
- Transcribed February 17th meeting minutes
- Coordinated with Brian Johnson of Met Council Environmental Services regarding BCMWC's 2011 sampling sites and date of BCWMC meeting packets and meetings; Followed up with 2011 CAMP volunteers; Copied and mailed draft Education and Outreach Plan to Education Committee members; Followed up with 2010 Board members regarding outstanding conflict of interest forms; E-mailed BWSR the BCWMC's 2011 roster.
- Created meeting notice for the February 14th Administrative Services Committee meeting, the February 23rd AMLAC annual meeting, and the March 3rd TAC meeting

40.50 hours @ \$57.00 per hour \$2,308.50

BCWMC Meetings

Set up and attended February 14th staff/ officer conference call and February 17th BCWMC meeting (coordinated room reservations and set up; ordered and received February catering; helped coordinate agenda, prepared and provided handouts not provided in meeting packet; recorded meeting)

6.75 hours @ \$57.00 per hour \$370.50

Web Site Services to BCWMC

Updated Commission roster

0.25 hours @ \$57.00 per hour \$14.25

CIP Administrative Services

Copied, mailed and e-mailed major plan amendment request for Wirth Lake
Outlet Modification project, Main Stem channel restoration project, and Lakeview
Park Pond projects

1.5 hours @ \$57.00 per hour \$85.50

Expenses

No February expenses \$0.00

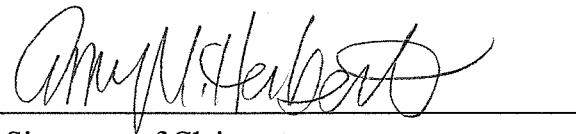
Mileage

Roundtrip mileage between Chanhassen and Golden Valley City Hall for
February 17th BCWMC meeting (17.08 miles x 0.51 = \$8.71)

\$8.71

Subtotal Administrative Services	\$2,687.71
Subtotal CIP Administrative Services	\$85.50
Subtotal Web Site Services	\$14.25
Total Current Billing:	\$2,787.46

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

ACE Drop-Off Catering

Invoice

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

INVOICE #

48595

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

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

P.O. NUMBER	TERMS		DELIVERY DATE	DAY	PPL	DELIVERY TIME
	Due on receipt		3/17/2011	Thursday	18	11 AM (10:45-11:15)

QUATY	DESCRIPTION	PRICE EA...	AMOUNT
18	Hot Monthly Special Buffet	11.95	215.10T
1	Fresh Vegetable Ratatouille	3.00	3.00T
18	Baked Shepards Pie with Ground Sirlion, Mushrooms, Onions and Carrots in a Rich Brown Gravy Encrusted with Mashed Potatoes	0.00	0.00T
18	Chopped Romaine Salad with Shredded Carrots, Tomatoes, Balsamic Vinaigrette and Ranch Dressing on the Side	0.00	0.00T
18	Artesian Breads, Rolls & Butter	0.00	0.00T
18	Assorted Bars & Cookies	0.00	0.00T
1	DOZEN-Assorted Bars & Cookies-Mark for Break	18.00	18.00T
4	Full Disposable Chafer-PU Later	3.00	12.00T
32	Assorted Sodas-2 Coke, 2 Diet, 2 Sprite, 2 Mineral & 24 Spring Waters	1.25	40.00T
2	Lemonade	1.45	2.90T
24	Spring Water	1.00	24.00T
	Subtotal		315.00
	Delivery Charge	20.00	20.00T
	Metro Sales Tax	7.275%	24.37

Disposable Papergoods & Serving Pieces Included	Total	\$359.37
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***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)_____



Watershed Management Commission

3235 Fernbrook Lane Plymouth MN
55447

TO: Amy Herbert
Bassett Creek Watershed Management Commission
c/o Barr Engineering
4700 West 77th Street
Minneapolis 55435-4803

1-Mar-11

Re: 2011 WMWA Workshops

Date	Description	Rate	Hours	Amount	Total
thru Jan 5, 2011	Subcommittee meetings, followup	55.00	12.62	694.10	694.10
	Meetings with and phone calls to collaborators	55.00	11.88	653.40	1347.50
	Create collateral materials	50.00	1.00	50.00	1397.50
	Partner share - 20%				279.50
	Please make your check payable to JASS at the address above. Thank you.				
7-Feb-11	Subcommittee meetings, followup	55.00	6.97	383.35	383.35
	Identify and confirm workshop venues	55.00	2.21	121.55	504.90
	Identify and confirm workshop venues	45.00	0.25	11.25	516.15
	Develop promotional materials	55.00	2.57	141.35	657.50
	Develop e-lists, update websites	45.00	8.96	403.20	1060.70
	Partner share - 20%				212.14
1-Mar-11	Subcommittee meetings, followup	55.00	7.73	425.15	425.15
	Develop promotional materials	55.00	4.79	263.45	688.60
	Develop e-lists, update websites	45.00	1.42	63.90	752.50
	Coordinate venue materials, menus	45.00	0.17	7.65	760.15
	Partner share - 20%				152.03
	Please make your check payable to the Shingle Creek Watershed Management commssion at the address above. Thank you.				
	Total invoiced to date				643.67

Amy, \$279.50 should be paid to JASS and \$364.17 should be paid to Shingle Creek. Future invoices will be payable to Shingle Creek as the fiscal agent for WMWA. All three invoices count against the total approved budget for the 2011 workshops. Questions, please give me a call.



Watershed Management Commission

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Watershed Management Commission

3235 Fernbrook Lane Plymouth MN 55447

TO: Amy Herbert
Bassett Creek Watershed Management Commission
c/o Barr Engineering
4700 West 77th Street
Minneapolis 55435-4803

Re: **WMWA General Expense - quarterly invoice**

7-Mar-11

Date	Description	Rate	Hours	Amount	Total
Jan-11	Administrative	50.00	3.10	155.00	
	Administrative	55.00	11.60	638.00	
	Administrative - offsite	65.00	10.15	659.75	
	Copies	0.11	70.00	7.70	
	Color Copies	0.25	104.00	26.00	
	Scans	1.00		0.00	
	Postage	1.25	6.85	8.56	
	Supplies	1.00	60.98	60.98	1,555.99
Feb-11	Administrative	50.00	1.90	95.00	
	Administrative	55.00	5.95	327.25	
	Administrative - offsite	65.00	5.95	386.75	
	Copies	0.11	211.00	23.21	
	Color Copies	0.25	747.00	186.75	
	Scans	1.00	2.00	2.00	
	Postage	1.25	0.88	1.10	
	Supplies	1.00	15.27	15.27	1,037.33
Mar-11	Administrative	50.00	0.17	8.50	
	Administrative	55.00	5.30	291.50	
	Administrative - offsite	65.00	4.84	314.60	
	Copies	0.11	385.00	42.35	
	Color Copies	0.25	307.00	76.75	
	Scans	1.00	7.00	7.00	
	Supplies	1.00	13.91	13.91	754.61
	Total				2,593.32
	Partner Share x .20				518.66
Please make your check payable to the Shingle Creek Watershed Management Commission at the address above. Thank you.					
	Watershed Games			643.65	
	Train the Trainer			65.00	
	Total				708.65
	Partner Share x .20				141.73
Please make your check payable to JASS at the address above. Thank you.					



Watershed Management Commission

3235 Fernbrook Lane Plymouth MN 55447

TO: Amy Herbert
Bassett Creek Watershed Management Commission
c/o Barr Engineering
4700 West 77th Street
Minneapolis 55435-4803

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MALLOY
MONTAGUE
KARNOWSKI
RADOSEVICH
& Co., P.A.

5353 Wayzata Boulevard • Suite 410 • Minneapolis, MN 55416
Telephone: 952-545-0424 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. 28056 -

Date 02/1/2011
Client No. 6355

FOR PROFESSIONAL SERVICES

Progress billing for services completed to date on audit of financial
statements for the year ended 01/31/2011.

\$ 1,500.00

RECEIVED
FEB 10 2011
CITY OF GOLDEN VALLEY

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 6A – 9209 40 ½ Ave. Compensatory Storage: New Hope
BCWMC March 17, 2011 Meeting Agenda
Date: March 9, 2011
Project: 23270051 2011

6A. 9209 40 ½ Ave. Compensatory Storage: New Hope

Summary

Proposed Work: Floodplain mitigation

Basis for Commission Review: floodplain mitigation

Change in Impervious Surface: none

Recommendation: No action required.

General Background & Comments

The BCWMC reviewed this project at its November 19, 2008 and February 19 2009 meetings.

The residential landscaping project is located along the north side of Northwood Lake at the referenced address. The project included extending an existing retaining wall approximately one-ft. in height along 75-feet of Northwood Lake shoreline and placing fill to provide a level area for maintaining the yard. The floodplain elevation for Northwood Lake is 889.5 ft. The project was completed in 2008 and resulted in about 21 cubic yards of fill below the floodplain elevation. No compensating storage volume was initially provided.

The BCWMC approved a variance for the fill with the condition that compensating storage be provided and that the property owner works it out with the City of New Hope on how the compensating storage is provided. The city previously reported that 7 cubic yards of the 21 cubic yards was removed by the property owner. The city also previously stated the remaining 14 cubic yards of material would be removed as part of a city project at the west end of the lake. As noted in the attached February 11, 2011 letter, the city has completed the west end project.

The BCWMC requested the City of New Hope to report to the BCWMC after the compensating storage has been resolved. Staff has reviewed the data and concurs the compensating storage has been provided.

Recommendation

No action required by the BCWCM.



February 11, 2011

Jim Herbert, P.E.
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435

Re: New Hope: 9209 40½ Ave – Compensatory Storage
Bonestroo File No.: 000034-10000-0, 000034-06183-1

Dear Jim:

In 2009, 21 CY of fill material was placed in the Northwood Lake floodplain on the property at 9209 40½ Avenue North in New Hope. As explained in a previous letter, 7 CY of the 21 CY was removed by the property owner. The letter also stated the remaining 14 CY of material would be removed as part of a city project at the west end of the lake.

The city project has been completed and the amount of material removed verified through topographic surveys. Using the data collected in surveys completed both before and after the construction, along with the known HWL of 899.5 for the lake, the following was determined:

- The total volume of material removed was 41.37 CY.
- The volume between the NWL and the HWL (in the floodplain) was 33.41 CY.

These numbers were higher than those anticipated but clearly indicate that the amount of material removed within the floodplain during the project exceeds the 14 CY required.

Please use this information to request Commission approval that the mitigation requirements for the material placed within the floodplain has been satisfied. Record plans and calculation reports are enclosed to help show how these values were determine. If there are any questions or if more information is needed, please contact me at 651.604.4938. Otherwise, we will wait to hear back with a decision from the Commission.

Sincerely,

BONESTROO

Jason P. Quisberg, P.E.

Enclosures: Northwood Lake West Inlet Cleaning – Record Plans
Surface Properties Reports (Volume Calculations)
cc: Guy Johnson, New Hope Public Works Director



Memorandum

To: Bassett Creek Watershed Management Commission
From: Technical Advisory Committee
Subject: March 3, 2011 TAC Meeting
Date: March 7, 2011

The Technical Advisory Committee (TAC) met on March 3, 2011. The following TAC members, city representatives, staff, and others attended the meeting:

City	TAC Members/Alternates	Other City Representatives
Crystal	Absent	
Golden Valley	Jeaninne Clancy, Jeff Oliver	Chair Linda Loomis
Medicine Lake	Vacant position	Commissioner Ted Hoshal
Minneapolis	Pat Byrne	
Minnetonka	Lee Gustafson, Liz Stout	
New Hope	Absent	
Plymouth	Derek Asche	
Robbinsdale	Richard McCoy	
St. Louis Park	Absent	
BCWMC Staff	Len Kremer & Geoffrey Nash	
Also present: Deb Pilger, MPRB		

The Technical Advisory Committee (TAC) directed staff to forward the following recommendations to the Commission for its consideration. This memorandum presents the recommendations relating to updating of the hydrologic and water quality models, the 2011 Watershed Tour, and letters of interest for engineering services.

1. Update of Hydrologic/Hydraulic and Water Quality Models

The TAC reviewed the two memos by Barr Engineering that provided information on the current status of existing models and cost estimates for revising those models. Currently, the majority of the watershed's hydrology is modeled by the HEC-1 program and the creek hydraulics are modeled with the HEC-2 program. Small sections of the watershed have been updated to the XP-SWMM model where more

detailed modeling has been needed. Updating the model would provide value to cities when development occurs. Updating the existing hydrologic and hydraulic models to XP-SWMM and calibration would cost \$70,000.

The current status of the water quality model is that a significant portion of the watershed's water quality has been modeled with an older version of the P8 Model with best management practice (BMP) information that is representative of the treatment conditions fifteen to twenty years ago. Some major subwatersheds have been updated to current land use and runoff drainage/BMP conditions when more detailed modeling was needed for Total Maximum Daily Load (TMDL) studies. Field surveys of BMP storage volumes and outlet characteristics would be performed. The approximate cost for this portion of the task is \$120,000; about half of this cost is for field surveys. Calibration of the model was also recommended, costing \$15,000 for a subtotal of \$135,000.

The TAC discussed adding a surcharge onto permit fees that would underwrite the cost of incremental annual updates to the models.

The total cost of updating the two models would be \$205,000.

Recommendations on updating the hydrologic/hydraulic and water quality models:

The TAC recommended that the Board approve the update to the hydrologic and hydraulic model converting the current model to XPSWMM and updating the water quality models to the current version of P8. This work would facilitate the accurate prediction of surface water flow and water quality, especially as BCWMC would be the categorical waste load allocator and as best management practices are implemented throughout the watershed. The attached revised Barr memos discuss the benefits more fully.

The TAC also recommended that the administrator and the engineer develop a recommendation and budget estimates for the Commission concerning the following:

- Modifying the project review permit fees so that the water quality model can be revised to include any water quality BMPs that are proposed as part of a project.
- Annually updating the water quality model to insure that it is current and includes any BMPs that were completed during the past year.
- Coordinating the acquisition of information needed to report to the regulatory agencies on the annual progress of the implementation plans for watershed TMDLs.

2. 2011 Watershed Tour

The TAC discussed which stops would be included on the tour, as well as the date and time. Projects mentioned were: Golden Valley City Hall (start), West Medicine Lake Park, Plymouth Creek Restoration, Sweeney Lake Branch Restoration, North Branch pre-construction streambank restoration area, Wirth Lake outlet, and the Minneapolis creek stabilization area.

Recommendations on the 2011 Tour:

The TAC recommended that the Board consider the above-mentioned stops on the tour and also consider a weekday, late afternoon tour that would allow more public participation than scheduling it on a Saturday when families are usually busy.

3. Letters of Interest for Engineering Services

The TAC discussed the eight letters of interest received in response to the solicitation. Several well-qualified firms expressed interest in providing professional engineering services. The TAC considered how to foster more competition in the provision of engineering services while also recognizing the very important institutional memory represented in Barr Engineering's staff. It was noted that the solicitation requested very little information from the interested firms on which to judge their qualifications. That being said, the TAC representatives had prior experience with several of the firms.

Recommendations on the Engineering Services:

The TAC stated unequivocally that they were extremely satisfied with the level of service provided by Barr's staff. Len Kermer's gradual move toward less active involvement with the watershed after his long service was discussed. Karen Chandler's leadership on planning issues before the Commission and Jim Herbert's technical contributions were also mentioned. Len, Karen, Jim and other staff at Barr constitute a consistent and valuable resource to the Commission.

The TAC recommended the following:

- The Board approve a two (2) year contract with Barr Engineering,
- A full Request for Proposal (RFP) process should be instituted every 10 years, or sooner if requested by the Board, from this point forward. This would go beyond the solicitation for Letters of Interest.
- The Board direct the TAC to assemble a short list of approximately three pre-qualified engineering firms that could be requested to provide proposals on projects. This would provide flexibility in hiring firms and allow for additional competition in awarding projects.
- The Board direct the Administrative Services Committee and the Administrator to discuss a Plan of Succession with Len Kremer and Barr Engineering. In addition, the TAC recommended that the Administrator be given direction by the Board to have a discussion with Barr about their fee schedule.

4. New Business

None

5. Other Business

The next TAC meeting has been scheduled for Thursday, April 7, 2011. Future possible TAC issues include:

- Review Education committee hand outs

To: Bassett Creek Watershed Management Commission
From: Technical Advisory Committee
Subject: March 3, 2011 TAC Meeting
Date: March 4, 2011
Page: 4

- Rate control/volume monitoring
- How should TMDL project implementation be integrated into the CIP?
- What changes in Commission policies are needed to insure that the overall WLA in watershed TMDLs do not change?
- Next Generation Watershed Plan
- TMDL categorical responsibilities and monitoring changes/additions necessary for oversight
- Additional CIP Review

Memorandum

To: Technical Advisory Committee, Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Cost Estimate for Hydrologic and Hydraulic Model Updates
Date: December 30, 2010, **Revised March 7, 2011**
Project: 23270051.32 2011 008

As requested, this memorandum presents a work scope to update the current Bassett Creek hydrologic and hydraulic models; it also includes a planning level cost estimate for updating the models. Currently, the majority of the watershed hydrology is modeled by the HEC-1 program, and the creek hydraulics are modeled with the HEC-2 program. Small sections of the watershed have been updated to the XP-SWMM model where more detailed modeling has been needed. The HEC models were developed by the Hydrologic Engineering Center of the U.S. Army Corps of Engineers and the original SWMM models were developed by the Environmental Protection Agency. The attached figure shows the watersheds and the creek as they are currently modeled.

Benefits of Updating the Hydrologic and Hydraulic Models

An updated hydrologic and hydraulic (H & H) XPSWMM model will allow the Commission to evaluate the impact of structure modifications and other projects on the creek and other major waterbodies in the watershed. For example, it could be used to evaluate the impact of modifications similar to the Sweeney Lake outlet modification, the Wisconsin Avenue control structure modification, and the Wirth Lake outlet modification. In the future, newer and/or more detailed XPSWMM models performed by others (e.g., the cities) could be integrated into the Commission's updated H & H model, further increasing the usefulness of the model to the Commission and the member cities. The updated H & H model could also be used to help the Commission evaluate/understand potential flooding risks (e.g., spring snowmelt).

Cost Estimate

Cost estimates were developed for two major modeling options:

- **Option 1:** convert the HEC-1 model and the HEC-2 models to the current Corps of Engineers H&H model, HEC-RAS for a total estimated cost of \$77,000 (including optional tasks).
- **Option 2:** convert the entire watershed to XP-SWMM (for both hydrology and hydraulics) for a total estimated cost of \$70,000 (including optional tasks).

Each cost estimate includes additional optional tasks to further refine the modeling or to include calibration. The cost estimates include the modeling costs only, with the exception of preparing a letter for the IAHR (Interagency Hydrology Review Committee) for the updated hydrology. The following paragraphs provide a breakdown of the work scope and a cost estimate for each option.

Work Tasks

Option 1 – Convert HEC-1 Model to HEC-HMS and Convert HEC-2 Models to HEC-RAS

Task a. Convert the HEC-1 Model to HEC-HMS

This task includes converting the existing HEC-1 model to HEC-HMS. The HEC-1 model is outdated and has been replaced with the HEC-HMS model. Future revisions to the hydrologic model will be easier to perform in HEC-HMS than in HEC-1.

The current HEC-1 model was revised by the Corps of Engineers and Barr in 1996 and has been calibrated to historic storm events. The model has been approved by the IAHR. Upon updating the model, a letter will be sent to the IAHR requesting approval of the converted model. This task does not include checking if bridge or culvert geometry has changed at the outlet of each lake or pond. This task includes the following work:

- Import the HEC-1 files to HEC-HMS
- Update tables to work within HMS
- Run and debug model
- Compare HEC-HMS flows to HEC-1 flows
- Revisions to the HEC-HMS model to match HEC-1 flows if necessary
- Prepare and send IAHR letter

The approximate cost for this portion of Task a is \$13,000.

Since the above cost does not include any refinements to the watershed divides based on changes to the storm sewer system or more detailed topography, an optional task and cost has been included if the Commission would like the model updated to reflect these changes. The optional tasks include:

- Update watershed divides based on changes in storm sewer and topography
- Update hydrologic inputs based on the new watershed divides
- Run and debug the updated model
- Compare the updated model flows to the original HEC-1 model and to historic storm events.

The approximate cost for this optional portion of Task a is \$21,000.

The total approximate cost for Task a is \$34,000.

Task b. Convert the HEC-2 models to HEC-RAS

This task includes converting the existing HEC-2 models, currently modeled as eight different sections along the creek (see map), into one HEC-RAS model. These models were revised by the Corps of Engineers and Barr in 1996 and are the basis for FEMA's regulatory flood profiles. The converted HEC-RAS model will incorporate the LiDAR topography in the overbank areas along the creek, but will use the channel geometry that was included in the HEC-2 models. The HEC-2 models have been calibrated to high water marks. Updating the model using LiDAR data will change the geometry of the cross-sections, so peak water surface elevations in the HEC-RAS model will need to be compared to peak water surface elevations in the calibrated HEC-2 model to examine whether or not significant differences exist between the water surface elevations of the two models. If the comparison of the HEC-2 and new HEC-RAS water surface elevations show significant changes, the HEC-RAS model could be adjusted to match the HEC-2 water surface elevations; however, we recommend recalibrating the model (as outlined below) rather than just adjusting the model. This task does not include such model adjustments and does not include checking if bridge or culvert geometry has changed at each structure.

This task includes the following work:

- Re-cut cross-sections in GIS.
- Import cross-sections and merge LiDAR and channel geometry
- Update bridge data to work in HEC-RAS

- Create flow and plan files
- Run and debug model
- Compare HEC-RAS model elevations to HEC-2 model elevations

The approximate cost for this portion of Task b is \$32,000.

The following additional steps are needed to calibrate the HEC-RAS model:

- Find/choose storm events
- Run storms through HEC-HMS to calculate HEC-RAS flows
- Run HEC-RAS model
- Revise HEC-RAS model to match historic elevations in creek

The approximate cost to calibrate the HEC-RAS model is: \$11,000.

The total approximate cost for Task b is \$43,000.

Option 2 – Convert the HEC-1 and HEC-2 models to XP-SWMM

Several sections of the Bassett Creek watershed have been converted to XP-SWMM when more detailed modeling was required. XP-SWMM is a more powerful and user-friendly model that incorporates both hydrology and hydraulics and deals effectively with issues like backwater and more complex outlet structures. This task includes creating an XP-SWMM model for the areas currently modeled in HEC-1 and HEC-2, and then merging the new model with the areas already modeled in XP-SWMM. This will create one comprehensive XP-SWMM model for the entire Bassett Creek Watershed. This task includes updating the watersheds and hydrology inputs for inclusion into XP-SWMM. Because of how the model simulates outlets at ponds and lakes, each pond or lake outlet will need to be checked and recalculated as part of this task. This task does not include checking if bridge or culvert geometry along the creek has changed since previous modeling efforts.

This task includes the following work:

- Update watershed divides
- Calculate new hydrologic inputs

- Calculate new storage curves for ponds/lakes
- Check and input pond/lake outlet information
- Re-cut cross-sections in GIS
- Import cross-sections and merge LiDAR with channel geometry
- Define bridges and culverts in the model
- Merge the updated model with the existing XP-SWMM models
- Run and debug model
- Compare elevations to HEC-2 models

The approximate cost for this portion of Option 2 is \$56,000.

Since converting the HEC-1 and HEC-2 models to XP-SWMM will result in several updates to the model inputs, including new hydrologic inputs and channel geometry, it is recommend that the model be calibrated to known storm events. The following additional steps are needed to calibrate the XP-SWMM model:

- Find/choose storm events (two assumed - one for calibration, one for validation)
- Run models for chosen events
- Revise model to calibrate to known storm events

The approximate cost for the calibration portion of this task is \$14,000.

The total approximate cost for Option 2 is \$70,000.

Memorandum

To: Technical Advisory Committee, Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Cost Estimate for Water Quality Modeling Updates
Date: December 30, 2010, **Revised March 7, 2011**
Project: 23270051.32 2011 008

As requested, this memorandum presents a work scope to update the current Bassett Creek water quality modeling and includes a planning level cost estimate for updating the modeling, along with a map indicating the existing modeling status. Currently, the water quality modeling of a significant portion of the watershed was completed with an older version of the P8 Model with best management practice (BMP) information that is representative of the treatment conditions fifteen to twenty years ago. Some major subwatersheds have been updated to current land use and runoff drainage/BMP conditions when more detailed modeling was needed for Total Maximum Daily Load (TMDL) studies. The attached figure shows the major subwatersheds and the current water quality modeling status.

Benefits of Updating the Water Quality Model

An updated P-8 water quality model will provide a key tool for the Commission to use in tracking the progress of the BCWMC and the MS4s towards TMDL implementation for impaired water bodies, not only within BCWMC, but also downstream of Bassett Creek. For example, every MS4 in the Medicine Lake watershed is to reduce their total phosphorus loading to Medicine Lake by 38%. When projects are proposed and/or completed, the updated P8 model could be used to estimate the loading reduction that will be achieved by the projects. As another example, the South Mississippi (draft) TMDL (previously known as the Lake Pepin TMDL) calls for MS4s in the watershed to reduce their total suspended sediment (TSS) loadings by 25%. However, MS4s can be exempt from this requirement if they can demonstrate (e.g., through modeling) that their TSS loadings are less than 160 lbs/ac/day. It is very likely that the MS4 cities in the Bassett Creek watershed could be meeting this loading requirement and thus be exempt from the load reduction requirement of the South Mississippi TMDL.

An updated P8 model could also be used to evaluate the effect of proposed projects, such as projects that come under Commission review and Commission CIP projects. The member cities could also use the model to evaluate individual BMPs in their cities.

Cost Estimate

The total cost for updating the P8 model is estimated to be \$135,000. The cost estimate includes two major work tasks: 1) updating the P8 model and 2) calibrating and further refining the modeling. The cost estimate includes the cost to update the modeling and to prepare a technical memorandum regarding the updated water quality modeling. The paragraphs below describe the work tasks and a cost estimate for each of the tasks.

Work Tasks

Task 1. Update P8 Water Quality Model

The focus of some of the completed P8 modeling studies was specific to individual water bodies nested within the Medicine Lake and North Branch watersheds. Due to model limitations on the number of BMP devices in previous versions of P8, most nested watersheds contain more BMPs in the modeling of the tributary watershed than is contained in the larger major subwatersheds. For example, the P8 model for the Parkers Lake subwatershed (a nested subwatershed within the Medicine Lake watershed) includes about two dozen BMPs, whereas the P8 model for the Medicine Lake watershed “lumps” together all of the Parkers Lake BMPs into one single BMP for the entire subwatershed. Older versions of the model will be updated to the current version of the P8 model, including updated subwatershed inputs that reflect current drainage divides, land use and/or imperviousness produced from the available geographic information systems (GIS) coverage. Data will be reviewed for individual BMPs in each model to verify outlet characteristics and updated storage volumes, based on field surveys of the current bathymetry. New or modified BMPs will be accounted for and/or included in the P8 models, as allowed by the available model capacity. This task includes updating the P8 model for the Main Stem, North Branch (Lost Lake, Northwood Lake, and Bassett Creek Park Pond), Parkers Lake, Westwood Lake, and Grimes, North Rice and South Rice Ponds major subwatersheds.

The following steps will be included in this task:

- Update watershed divides in GIS
- Calculate new hydrologic/water quality inputs

- Field surveys of BMP storage volumes and outlet characteristics
- Calculate new stage/storage/discharge curves for ponds/lakes
- Check and input pond/lake outlet information in newest version of P8
- Merge the updated modeling with the current P8 models
- Run P8 model and debug
- Report results and prepare technical memorandum

The approximate cost for this portion of the task is \$120,000; about half of this cost is for field surveys.

Task 2. Calibrate P8 Water Quality Model (Optional)

Since there will be several updates to the P8 modeling, including new hydrologic/BMP inputs and channel routing, it is recommended that the model be calibrated to known storm events. The following steps will be included in calibrating the P8 modeling:

- Find/choose monitoring periods from Irving Avenue monitoring station (two assumed—one for calibration, one for validation)
- Complete FLUX modeling to determine observed pollutant loadings for the chosen monitoring periods
- Create hourly precipitation and daily temperature input files for P8
- Run P8 models for chosen time periods
- Revise and run P8 model to calibrate
- Report results and incorporate into technical memorandum

The approximate cost for the calibration portion of this task is \$15,000.

All of the model input data for all of the watershed studies will be stored in a single GIS database that will be maintained for use on future Commission projects and for easy distribution to each of the member cities. This database could then be used to track compliance with TMDL wasteload allocations and TMDL implementation plans.

6C.

Bassett Creek Recording Administrator

Subject: BCWMC: 2011 permit and TMDLs
Attachments: database format.xlsx
From: Len Kremer
Sent: Tuesday, March 08, 2011 11:29 AM
To: Bassett Creek Recording Administrator; 'Geoff Nash'
Cc: Karen Chandler
Subject: FW: 2011 permit and TMDLs

Amy, Geoff;

I handed this out at the TAC meeting. A copy should go to the Commission. It relates to the budget numbers that the TAC asked us to prepare for the Commission budget. This report to the MPCA will be due 12 months after the approval of the TMDL.

From: Trojan, Mike (MPCA) [mailto:Mike.Trojan@state.mn.us]
Sent: Wednesday, March 02, 2011 3:16 PM
To: Len Kremer
Subject: 2011 permit and TMDLs

Len, the draft permit requires the permittee to:

1. Submit a Commissioner-approved form in which the permittee provides information on BMPs and implementation activities to be applied to WLA(s);
2. Provide an estimate of cumulative progress toward achieving WLA(s); and
3. Provide a short description of an adaptive management strategy, with approximate timelines, for achieving WLAs.

The attachment provides a draft of the Commissioner-approved form. BMPs are things already implemented that can be applied to a WLA. Activities are more general descriptions of implementation activities the permittee may use to achieve the WLA. An example of an activity would be something like the following:

- Comply with Watershed District requirements for volume control;
- Install rain gardens as opportunities arise; and
- Implement LID BMPs in new development.

There are some comment fields in the spreadsheet that should help understand what is being asked.

An example of an adaptive management strategy would be something like the following:

There are "short term" projects that could be accomplished in the next 5-20 years. A long-term plan is to routinely retrofit BMPs as redevelopment or construction activities provide opportunities. As the road authorities cycle through their street and highway reconstruction programs, it is now routine to include treatment BMPs such as stormwater detention ponds and underground treatment devices where possible. These incremental reductions will over time add up to a significant external load reduction. Another long-term type of external load reduction is redevelopment. Parts of the watershed draining to these lakes developed prior to the development of Shingle Creek Watershed Commission rules and standards and subsequently there is currently little or no treatment of stormwater. As these areas redevelop over time, the new development will be required to abstract some stormwater and treat the balance of the runoff before discharging it to the lakes. Some cities use redevelopment as an opportunity to provide even more stormwater treatment by "upsizing" treatment BMPs above and beyond the minimum required by the rules or to create new regional treatment opportunities."

The following strategies are identified for all lakes

- *Evaluate adequacy of existing rules, standards, and ordinances for runoff water quality treatment and volume management and revise if necessary*
- *Add BMPs as opportunities arise to decrease runoff from the watershed and increase stormwater treatment*
- *Monitor and maintain existing stormwater ponds and other BMPs to sustain removal effectiveness*
- *Increase infiltration and abstraction in the watershed*
- *Increase frequency of street sweeping in sensitive areas*
- *Conduct or update aquatic plant surveys and prepare management*

Let me know if you have any questions or need more clarification.

Required information									
MS4 Permit ID	MS4 Name	BMP or activity	BMP ID	Description	TMDL ID	TMDL Pollutant	Status	Year implemented	Comment
MS400032	Maplewood	BMP	WP001	Wet pond	10127	Phosphorus	Completed	2008	
MS400032	Maplewood	BMP	WP001	Wet pond	10465	Phosphorus	Completed	2008	
MS400032	Maplewood	BMP		Enhanced street sweeping	10127	Phosphorus	Completed	2008	
MS400032	Maplewood	BMP		Enhanced street sweeping	10127	Phosphorus	Completed	2008	
MS400032	Maplewood	Activity		Installation of rain gardens	10127	Phosphorus	Planned		
MS400032	Maplewood	Activity		Installation of rain gardens	10127	Phosphorus	Planned		
MS400032	Maplewood	Activity		Pond maintenance	10127	Phosphorus	Planned		
MS400032	Maplewood	Activity		Pond maintenance	10127	Phosphorus	Planned		
MS400032	Maplewood	Activity		Removal of illicit discharges	10127	Phosphorus	Planned		
MS400032	Maplewood	Activity		Removal of illicit discharges	10127	Phosphorus	Planned		

[illegible]

WMWA Meeting - March 8, 2011- 8:30 am

Plymouth City Hall

Those present: Representatives from Three Rivers Park District, Hennepin County Environmental Services, The Freshwater Society, Bassett Creek, Shingle Creek, West Mississippi, Elm and Pioneer-Sarah WMO's were present.

A Pathway to Clean Water Forums

Numerous e-mails have been sent out encouraging people to register. The deadline for registering for the first of the urban/suburban forums on Volume Management is Friday, March 18. Registrations are trickling in. Registrants will be contacted by e-mail if the March 23rd Forum needs to be cancelled due to an insufficient number of registrations.

Plymouth Yard and Garden Expo – April 8 & 9

This very popular event is held at the Plymouth Community Center from late afternoon on Friday, April 8 through noon on April 9th. We have asked that our WMWA watershed management organization partners be located near each other on the exhibit floor. We plan to coordinate the information our various exhibits will feature.

Various Exhibit Opportunities

WMWA members are interested in knowing what activities are taking place in each of our watersheds where we plan to have an exhibit or an information table specific to our watershed.

Several of the WMWA watersheds do not have exhibits for their community events. They asked if they could borrow exhibits from those of us who have created exhibits for our watersheds. Those of us who have exhibits said that may be possible but that we would have to honor needs within our own watershed first.

Notes by Pauline Langsdorf

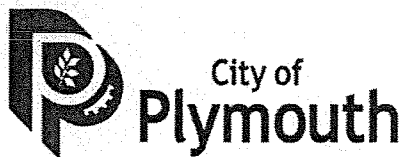


7B.

Geoff Nash, P.G.
Watershed Consulting, LLC

Administrator's Report
Bassett Creek Watershed Management Commission
March 9, 2011

1. Met with BWSR staff to review grant reporting on Elink and confirm financial reporting.
2. Worked on BWSR Clean Water grant Work Plan for Wirth Lake Outlet Structure grant. Work Plan is due by March 31.
3. Reviewed Education & Outreach Plan.
4. Met with Administrative Services Committee.
5. Responded to Education and Outreach Committee requests for information and passed emails between Committee members.
6. Worked with Charlie LeFevere to finalize writer's contract for Education and Outreach Committee articles.
7. Met with representatives of Hennepin County, Lower Minnesota River WD, Nine Mile Creek WD, and Minnehaha Creek WD to discuss groundwater protection planning across Hennepin County.
8. Requested tha cities in BCWMC send letter support to Hennepin Co. Environmental for further dedicated grant funding from the Legislature for water resource protection projects. Dedicated grant funding of \$500,000 were available in 2010 and the county plans to ask for \$5,000,000 over two years starting in 2012.
9. Drafted letter for cities to use as a model for sending to Hennepin County in support of seeking additional county directed Clean Water funds from the State Legislature. Several cities responded with letters. (examples attached)



March 7, 2011

Adding Quality to Life

Ms. Rosemary Lavin
Assistant Director, Environmental Protection Division
417 N. 5th Street, Suite 200
Minneapolis, MN 55401-3206

SUBJECT: COUNTY DIRECTED CLEAN WATER GRANT FUNDING

Dear Ms. Lavin:

In 2010, the cities of Plymouth and Golden Valley were awarded Riparian Restoration and Stream Bank Stabilization Grants totaling \$290,000 for two stream restoration projects, one in Plymouth and one in Golden Valley. These Hennepin County directed funds will have a significant impact on improving the water quality in Plymouth Creek, Medicine Lake, and Bassett Creek. These projects are currently underway and will repair eroded stream banks and enhance stream function. In addition, these projects will reduce pollutant loading in the City of Plymouth, the Bassett Creek Watershed, and improve the water quality of our resources into the future.

The Riparian Restoration and Stream Bank Stabilization funds have been combined with another grant from the Board of Water and Soil Resources (BWSR) totaling \$360,000 and ad valorem funds from the Bassett Creek Watershed Management Commission (BCWMC) totaling \$951,000. By having multiple partners on these projects, the cities of Plymouth and Golden Valley as well as the BCWMC have been able to take on other water quality improvement projects.

It is also important to know that the City of Plymouth was able to utilize the Tree Trust for tree removals associated with this project. The Tree Trust worked extremely hard under difficult winter conditions and proved themselves to be a very capable organization. Plymouth is proud to work with the Tree Trust organization and their youth groups to make long lasting improvements to our environment and we look forward to working with them again in the future.

Plymouth residents have consistently supported water quality improvement projects and with future grant funding, Plymouth, Golden Valley, and the BCWMC can continue to make resource improvements in our respective cities and throughout the Bassett Creek Watershed. Hennepin County's leadership on this funding is having a direct impact on water quality in the City of Plymouth and the Bassett Creek Watershed and we encourage the State Legislature to promote further improvements through additional County directed grant funds.

Sincerely,

Derek Asche

Water Resources Manager

Cc: CIM

Geoff Nash, BCWMC Administrator

3400 Plymouth Blvd • Plymouth, Minnesota 55447-1482 • Tel: 763-509-5000 • www.ci.plymouth.mn.us



City
of Golden Valley
www.ci.golden-valley.mn.us

March 4, 2011

City Hall
7800 Golden Valley Road
Golden Valley, MN 55427-4588
763-593-8000
763-593-8109 (fax)
763-593-3968 (TTY)

Mayor and Council
763-593-8006

City Manager
763-593-8002

Public Safety
Police: 763-593-8079
Fire: 763-593-8079
763-593-8098 (fax)

Public Works
763-593-8030
763-593-3988 (fax)

Inspections
763-593-8090
763-593-3997 (fax)

Motor Vehicle Licensing
763-593-8101

Planning and Zoning
763-593-8095

Finance
763-593-8013

Assessing
763-593-8020

Park and Recreation
280 Brookview Parkway
Golden Valley, MN 55426-1364
763-512-2345
763-512-2344 (fax)
763-593-3968 (TTY)

Ms. Rosemary Lavin
Assistant Director, Environmental Protection Division
417 N. 5th Street, Suite 200
Minneapolis, MN 55401-3206

Re: County Directed Clean Water Grant Funding

Dear Ms. Lavin:

As a member of the Bassett Creek Watershed Management Commission (BCWMC), a Joint Powers Commission, since 1968, the City of Golden Valley and our residents have been actively maintaining and improving water quality in our watershed for many years.

In 2010, the cities of Golden Valley and Plymouth were awarded a Hennepin County directed Clean Water Grant totaling \$290,000 for two streambank restoration projects in Plymouth and Golden Valley. These Hennepin County directed funds are having a significant impact on improving water quality in Bassett Creek.

These funds were combined with another grant from the Board of Water and Soil Resources (BWSR) totaling \$360,000 and ad valorem funds from BCWMC residents totaling \$951,000 to restore two reaches of the creek. This work to stabilize eroding streambanks and enhance the stream's function is going on right now and will reduce pollutant loading in our watershed and will maintain water quality into the future.

In addition, the City of Golden Valley has taken pride in utilizing the Twin Cities Tree Trust organization to assist in completing the creek restoration projects. Tree Trust youth will be assisting the City with furnishing, installing and maintaining native trees and shrubs throughout the first growing season of the project. Golden Valley has been proud to work with the Tree Trust organization and their youth groups since their inception in 1976.

Our residents consistently support this effort and with additional grant funding, BCWMC can take on more projects to improve water quality. Hennepin County's leadership on this funding is having a significant

impact on water quality in the City of Golden Valley and the Bassett Creek watershed, and we encourage the State Legislature to promote further improvements through additional County directed grant funds.

Sincerely,

A handwritten signature in cursive script that reads "Linda R. Loomis".

Linda R. Loomis
Mayor

C: Golden Valley City Council
 Tom Burt, City Manager
 Jeannine Clancy, Director of Public Works
 Al Lundstrom, Environmental Coordinator
 Bassett Creek Watershed Management Commission