

Bassett Creek Watershed Management Commission Meeting Agenda
May 17, 2012

1. **CALL TO ORDER**
2. **CITIZEN FORUM ON NON-AGENDA ITEMS:** *Citizens may address the Commission about any item not contained on the regular agenda. A maximum of 15 minutes is allowed for the Forum. If the full 15 minutes are not needed for the Forum, the Commission will continue with the agenda. The Commission will take no official action on items discussed at the Forum, with the exception of referral to staff or a Commissions Committee for a recommendation to be brought back to the Commission for discussion/action.*
3. **CONSENT AGENDA** – *These items are considered routine and will be enacted by one motion. There is no separate discussion of these items unless a Commissioner or citizen so requests, in which event the item will be removed from the Consent Agenda and placed on the regular Agenda.*
 - A. Presentation of April 19, 2012 meeting minutes
 - B. Presentation of Financial Statements
 - C. 2011 Water Quality Monitoring Activities (*see Barr Engineering memo*)
 - D. Policy Manual Revisions Presented in January 2012 (*see Policy Manual excerpt: 3.2.2 CIP Funding*)
 - E. Legal Counsel Communications
4. **ADMINISTRATION** – *A roll call vote will be taken on items listed below.*
 - A. Presentation of Invoices for Payment Approval
 - i. Kennedy & Graven – Legal Services through March 31, 2012
 - ii. Barr Engineering – Engineering Services through April 27, 2012
 - iii. Amy Herbert – April Secretarial Services
 - iv. D’amico-ACE Catering – May 2012 Meeting Catering
 - v. MMKR Certified Public Accountants- FY2011 Audit Work
 - B. Approval of BCWMC’s Annual Report
 - C. Contract with Met Council (MCES) for 2012 CAMP Participation
5. **NEW BUSINESS**
 - A. Possible cooperative arrangement with the Mississippi WMO regarding administrative functions – Doug Snyder/Commissioners.
 - B. BCWMC/ Golden Valley 2012 Agreement for Channel Maintenance
 - C. 2012 Plymouth Street Reconstruction Project
6. **OLD BUSINESS**
 - A. BWSR Biennial Budget Review (*Verbal-Ginny*)
 - B. Next Generation Watershed Management Plan (*Verbal-Ginny*)
 - C. Task Cost Estimates for Activities Discussed at the March BCWMC Meeting (*see 4/11/12 Barr Engineering Memo*)
 - D. Capstone Project: Does Commission Want a Presentation? (*see document*)
 - E. April 5, 2012 TAC memo, Item 2, Member Cities’ Post-Construction Best Management Practices Requirements (and Review “Triggers”), and Potential Changes to Water Quality Polices Pertaining to Nutrient Loading Increases and Water Quality Banking/Trading Program (*see document*)
 - F. Follow up report on the riprap in the channel below the Medicine Lake outlet(*verbal-Karen*)
 - G. Follow up on concerns raised by Ms. Anderson regarding foam in the Creek (*Verbal-Jeff Oliver*)

(Agenda continues)

Bassett Creek Watershed Management Commission Meeting Agenda
May 17, 2012

7. COMMUNICATIONS

- A. Chair (*Bottineau Transitway*)
- B. Commissioners
- C. Committees
- D. Engineer

8. ADJOURNMENT

Bassett Creek Watershed Management Commission Minutes of the Meeting of April 19, 2012

1. CALL TO ORDER

The Bassett Creek Watershed Management Commission (BCWMC) was called to order at 11:38 a.m., on Thursday, April 19, 2012, at Golden Valley City Hall by Chair Black. Ms. Herbert called roll.

ROLL CALL		Counsel	Charlie LeFevere
Crystal	Commissioner Dan Johnson	Engineer	Karen Chandler
Golden Valley	Commissioner Stacy Hoschka, Treasurer	Recorder	Amy Herbert
Medicine Lake	Commissioner Ted Hoshal, Secretary		
Minneapolis	Alternate Commissioner Lisa Goddard		
Minnetonka	<i>Not represented</i>		
New Hope	<i>Not represented</i>		
Plymouth	Commissioner Ginny Black, Chair		
Robbinsdale	Commissioner Wayne Sicora		
St. Louis Park	Commissioner Jim de Lambert, Vice Chair		

Also present:

- Laura Adler, BCWMC Technical Advisory Committee, City of St. Louis Park**
- Virginia (Ginger) Anderson, Golden Valley Resident**
- Derek Asche, BCWMC Technical Advisory Committee, City of Plymouth**
- Pat Byrne, BCWMC Technical Advisory Committee, City of Minneapolis**
- Dave Hanson, Alternate Commissioner, City of Golden Valley**
- Linda Loomis, Golden Valley Resident**
- Tom Mathisen, BCWMC Technical Advisory Committee, City of Crystal**
- Michael Martens, Bryn Mawr Neighborhood Assoc. Land Use Committee**
- Richard McCoy, BCWMC Technical Advisory Committee, City of Robbinsdale**
- Jeff Oliver, BCWMC Technical Advisory Committee, City of Golden Valley**
- Justin Riss, Alternate Commissioner, City of St. Louis Park**
- Charlie Simmons, Medicine Lake Resident**
- Liz Stout, BCWMC Technical Advisory Committee, City of Minnetonka**
- John Turrittin, Turrittin Designs**
- Aliya White, Golden Valley Resident**
- Brad Wozney, Minnesota Board of Water and Soil Resources**

2. APPROVAL OF AGENDA AND CONSENT AGENDA

Chair Black requested the addition to the Old Business agenda as item 6A1 - a discussion of Golden Valley's plans for a memorial and recognition event for former BCWMC Commissioner from Golden Valley Ed Silberman. Commissioner Hoshal requested the addition to the invoices an invoice from Prairie Moon Nursery in the amount of \$269.33 for the 400 seed packets ordered by the Education Committee. He noted that the funds are to come out of the Education Budget. Acting Commissioner Goddard moved to approve the agenda as amended. Commissioner de Lambert seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote]. Commissioner Hoschka moved to approve the Consent Agenda. Acting Commissioner Goddard seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote].

3. CITIZEN INPUT ON NON-AGENDA ITEMS

Ms. Ginger Anderson, a Golden Valley resident whose property is along Bassett Creek, brought up her concerns about the health of the creek and signs of deteriorating water quality since 2005. She said she is particularly concerned about thick, yellow foam along the creek this spring and noted that the water can be smelly and the creek bed is mucky instead of sandy like it was years ago so she doesn't want her dogs in the water. Mr. Oliver responded that each year the City does field calls from residents about concerns such as the foam. He explained that the foam is due to decaying vegetation but the City can look into it further if she would contact him directly and he provided her with his contact information.

Mr. Michael Martens of the Bryn Mawr Neighborhood Association Land Use Committee asked a BCWMC representative to come to the Committee's May 9th meeting to discuss the upcoming Commission project along Bassett Creek in Minneapolis. Chair Black said that there are two Minneapolis representatives on the Commission, Michael Welch and Lisa Goddard and perhaps one of them would attend. She recommended that Mr. Martens find Commissioner Welch's e-mail on the Commission Web site and e-mail him with the request.

Ms. Aliya White, a Golden Valley Resident, noted that she is a property owner along Bassett Creek and is here to learn more about the BCWMC and its processes.

4. ADMINISTRATION

4A. Presentation of March 15 and March 29, 2012, Meeting Minutes. The meeting minutes were approved as part of the Consent Agenda.

4B. Presentation of Financial Statements. The BCWMC's April 2012 financial report was approved as part of the Consent Agenda.

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

Checking Account Balance	\$786,142.80
TOTAL GENERAL FUND BALANCE	\$786,142.80
TOTAL CONSTRUCTION CASH &	\$1,918,757.87

INVESTMENTS	
Revenue	(\$504,961.81)
Current Expenses	(\$49,920.74)
TOTAL ON-HAND CONSTRUCTION CASH & INVESTMENTS	\$2,373,798.94
CIP Projects Levied – Budget Remaining	(\$3,145,202.42)
Closed Projects Remaining Balance	\$771,403.48
2011 Anticipated Tax Levy Revenue	\$998,000.00
Anticipated Closed Project Balance	\$226,596.52

4C. Presentation of Invoices for Payment Approval.

- i. Kennedy & Graven – Legal Services through February 29, 2012 – invoice for the amount of \$1,821.16.
- ii. Barr Engineering Company – Engineering Services through March 30, 2012 – invoice for the amount of \$34,582.24.
- iii. Amy Herbert – March Secretarial Services – invoice for the amount of \$2,403.48.
- iv. D'amico - ACE Catering – April BCWMC meeting catering – invoice for the amount of \$329.66.
- v. MMKR – Audit Work through February 29, 2012 – invoice for the amount of \$2,850.
- vi. Prairie Moon Nursery – 400 seed packets for education – invoice for the amount of \$269.33.

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

4D. Reimbursement Request from the City of Plymouth in the amount of \$42,258.09 for costs for work completed on the Plymouth Creek Stream Bank Restoration project. Mr. Asche summarized the reimbursement request, which would take care of the final payment to the contractor. He brought up the question of at what point a municipality closes out a project with the Commission. He noted that at the city level projects are closed out upon the final payment to the contractor. Mr. Asche noted that in this case permit requirements mean the City of Plymouth must continue wetland monitoring for four more years. He said that the monitoring will mean there are additional costs to the project estimated to be around \$10,000, which will be carried out over the next four years. Mr. Asche noted that there will be funds left in the project budget after this final contractor invoice has been paid and also noted that there would be BCWMC administrative costs to tracking and handling the future reimbursement requests for the wetland monitoring costs. He asked the Commission how it wants to handle these types of permit-related costs of a project after construction has been completed.

The Commission discussed options including closing out the project, creating a new category of projects

that are substantially closed but have ongoing maintenance or monitoring costs, and leaving the project open and paying for, as they are received, the annual reimbursement requests regarding monitoring costs. Commissioner de Lambert commented that he thinks that the Commission should continue to pay those costs related to the permit requirements. Chair Black said that she is hearing the Commission say that the project should be left open.

Ms. Chandler said that the Commission Engineer reviewed the reimbursement request and recommends payment of the request. She stated that after payment of the invoice there would be \$36,714.89 left in the project budget.

Acting Commissioner Goddard moved to approve the City of Plymouth's reimbursement request in the amount of \$42,258.09. Commissioner de Lambert seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote].

4E. "Greening" BCWMC Meetings. Commissioner Hoschka noted that instead of ordering individual plastic water bottles for lunch the Commission is trying out pitchers of water. She also asked the Commission about its interest in going paperless for its meetings. Chair Black added that the Commission wouldn't be providing electronic devices so commissioners would need to bring their own laptops or other devices. The Commission discussed options. Commissioner Hoschka volunteered to send out an e-mail asking commissioners and alternate commissioners to respond on whether they are interested in having a paper copy of the meeting packet or in going electronic.

4F. Participation in Golden Valley Days. Commissioner Hoschka noted the opportunities for BCWMC participation in Golden Valley Days events, such as having a booth there or being in the parade, on May 19th. The Commission indicated consent for participating. Commissioners Hoschka and Hoshal said they would coordinate with each other and the City. Ms. Linda Loomis indicated interest in volunteering. Commissioner de Lambert volunteered to help staff the booth at the event. Commissioner Hoshal stated that he would include Commissioner Hoschka, Ms. Loomis, and Mr. de Lambert on the e-mails with the event coordinator.

Mr. Michael Martens noted two opportunities for the BCWMC to connect with Bryn Mawr Neighborhood residents. 1. The Bryn Mawr Neighborhood Association's annual meeting on May 9th; and, 2. The Bryn Mawr ice cream social on July 23rd.

4G. Motion to Not Waive Monetary Limits on Municipal Tort Liability. Chair Black moved to not waive the monetary limits on municipal tort liability. Commissioner Hoshal seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote].

4H. MMKR Audit. Chair Black reported that MMKR has delivered to the Commission the final draft of BCWMC's fiscal year 2011 audit. Commissioner Johnson moved to approve the audit. Acting Commissioner Goddard seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote].

5. NEW BUSINESS

A. Discussion with Doug Snyder, Director of the Mississippi Watershed Management Organization. Chair Black announced that Mr. Snyder was not able to make today's meeting and will not be able to make meetings on Thursdays. She asked if the Commission is still interested in meeting with Mr. Snyder and if so then what alternate date would work in lieu of Thursdays. The Commission indicated that it was still interested in meeting with Mr. Snyder. It did not decide on an alternate date

for the meeting. Commissioner Hoshal asked how the Commission learned of Mr. Snyder's interest. Chair Black said that the Administrative Services Committee approached Mr. Snyder about it. Commissioner Hoshal asked if the Commission is entertaining other proposals at this time. Chair Black said no, not at this time. Commissioner de Lambert stated that the Administrative Services Committee has already met one time with Doug Snyder.

Chair Black asked if the Commission is interested in going out for with a Request for Proposals as a parallel process with trying to get together to talk with Doug Snyder. Commissioner Johnson said that it sounds like there may be possible synergies with working with the Mississippi Watershed Management Organization and perhaps the Commission should hold off on the RFP until it finds out if it can work with the organization. Several commissioners agreed.

Commissioner Sicora noted the element of the Next Generation Plan timetable and commented that ideally the Commission would have an Administrator in place for the kick off later this year.

Chair Black said that it would be beneficial for the Commission to read the RFP in the meeting packet prior to the Commission meeting with Doug Snyder. Commissioner Goddard asked if it was essentially the same RFP as went out in the process of looking for an Administrator last time. Chair Black said yes it is pretty close to what was put out last time with a few revisions.

- B. 228 Peninsula Road Floodplain Mitigation: Medicine Lake. Ms. Chandler explained that the project is in front of the Commission because it includes work in the floodplain of Medicine Lake. She said the project comprises tearing down the existing home and garage and building a new home and garage. Ms. Chandler noted that there will be an increase in impervious surface but because of the small size of the project no Commission requirements regarding treatment are triggered. She said there are drainage and other water quality requirements under the City's jurisdiction. Ms. Chandler said that the Commission Engineer's memo in the packet recommended approval of the permit with conditions. She said that since that time all of the conditions have been met so the Commission Engineer recommends approval of the project.

Mr. John Turriffin, the landscape architect working with the homeowners on the project, provided more details about the project and the revisions that have been made to the plan. He noted that the project no longer contains a component of adding fill in the flood plain.

Commissioner Hoshal moved to approve the project without further recommendations. Commissioner de Lambert seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote].

6. OLD BUSINESS

A.

- i. Memorial and Recognition of Ed Silberman, former BCWMC Commissioner. Mr. Oliver that Mr. Silberman had been a long-time BCWMC commissioner from Golden Valley and a civil engineering professor at the University of Minnesota and who worked at the St. Anthony Falls laboratory in Minneapolis. Mr. Oliver said that Mr. Silberman passed away this past summer at the age of 94 and his contributions to the watershed, water quality, and public participation was way ahead of its time. Mr. Oliver said the city plans a memorial in Schaper Park in Golden Valley including putting in a bench and plaque around the pond. Mr. Oliver said that the plaque will provide education about the water quality pond, the skimming structure, the native

vegetation, and will also commemorate Mr. Silberman's contributions. Mr. Oliver said that the recognition event will occur in July and the City will provide more details when they are ready.

- ii. **City of Medicine Lake Request for Medicine Lake Dam Inspection.** Chair Black stated that the Commission received a letter from the City of Medicine Lake signed by Ted Hoshal. She said the letter included raised questions about a possible leak at the dam, about the riprap in place the dam, and the effect of a higher pool below the dam. Chair Black said that she had requested Derek Asche, Water Resources Manager of the City of Plymouth, to take a look at the dam. Mr. Asche said he did go look at the dam but did not see a leak. Mr. Hoshal provided details about what he had seen and what information he had gathered from residents who live near the dam.

Ms. Chandler stated that the dam at the Medicine Lake Outlet had been put in place in 1996 and the new South Shore Bridge was completed in 2010. She said that Commission Engineer Jim Herbert went to inspect the dam after the Commission received Mr. Hoshal's letter. She said that Mr. Herbert did not find evidence of seepage and reported that the dam was in good condition.

Ms. Chandler said that the Commission Engineer looked at the original construction plans. She said the plans called for a bentonite seal, which is an underground seal that expands when wet. She said that possibly due to the dry weather the seal was not expanded and had some cracks in it which may have allowed water to pass through. Ms. Chandler said that after rain like the recent rain, the bentonite should have sealed again to act as a barrier to water flow. Ms. Chandler also pointed out that in the summer evaporation can lower the lake by four to six inches per month. Ms. Chandler fielded questions from Mr. Mathisen about the construction of the dam.

Commissioner Hoshal commented that he thinks the issue is bigger than the bentonite seal issue. He added that he had spoken with a neighbor that lives adjacent to the dam who said that the dam has been leaking for three years and who showed Commissioner Hoshal where he saw water flowing. Commissioner Hoshal said that maybe the driving of the sheet pile for the new bridge caused physical damage to the dam. Mr. Mathisen said that perhaps the sheet pile that is now in place for the bridge blocked off the normal ground water elevation forcing the water to come through the rocks into the wetland.

Ms. Chandler noted that there always will be some amount of seepage with a dam and the goal is to control it.

Commissioner de Lambert said that he was out at the dam and there was water flowing from the downstream side, perhaps at a rate of ten gallons or less per minute, which is not alarming but there is something going on there. He said that he would like someone who is qualified to go look at the situation with the pool and the riprap and provide an opinion on whether everything is fine or something else needs to be done.

Chair Black asked the Commission what it would like to do. The Commission discussed some options raised. Mr. Oliver recommended that the Commission Engineer monitor the situation during the monthly erosion control inspection and report back. He said the information could be included in the monthly erosion control report and if the report says further action is needed then the Commission could go from there. Mr. de Lambert said that he is fine with that approach with regard to the question of the leak but that he would like someone to look at the riprap and investigate if it is in the right place.

Mr. Asche provided some information from the City of Plymouth regarding the placement and elevation of the riprap and how the riprap affects the flow under the new bridge. He summarized that the new bridge provided approximately 30 square feet of additional flow under the bridge and the riprap eliminated that amount of additional flow so that the flow is approximately the same as the flow was under the old bridge.

Ms. Chandler noted that if the riprap is to stay in place then the project needs to be reviewed by the Commission because it is work in the flood plain.

Mr. Asche explained that in 2010 the Metropolitan Council (Met Council) did emergency work on the sewer line in this area. He said that the cover placed over the sewer line by the Metropolitan Council washed away in the spring of 2011. Mr. Asche said that in the fall of 2011 the City saw the exposed pipe and decided it didn't want to leave the pipe exposed during the winter due to the risk of the pipe freezing. He said the City covered up the pipe and the maintenance staff worked off of a plan for the pipe that mentioned using riprap or scour mat. He said that the scour mat was what had washed away. Mr. Asche said that the cover on the pipe is really a Met Council issue and not a City of Plymouth issue and the discussion about the covering of the pipe really needs to happen with the Met Council. He added that last Friday the City of Plymouth e-mailed the Met Council about it and they are prepared to be contacted. Mr. Asche suggested that the Commission contact the Met Council and then the City would be happy to sit in on any conversations and explain the City's actions. He said that he is not sure what the City is supposed to offer in this situation and that he feels like it is the Met Council's decision. Mr. Asche said that the City of Plymouth is reluctant to remove the riprap without knowing what the solution will be.

The Commission directed the Commission Engineer to contact the Met Council about the situation with the exposed sewer pipe that has been covered by riprap by the City of Plymouth. Chair Black asked Ms. Chandler to identify the budget line for the Commission Engineer's work costs on this issue. Ms. Chandler said the Commission Engineer would handle the charges like it does work on a permit review prior to the application and fee being received by the Commission.

- B. TAC Recommendations. The Commission discussed the TAC's recommendation for the inclusion of three projects in the Commission's 2014 Capital Improvement Plan: Schaper Pond Diversion Project in Golden Valley, water quality improvement site in Golden Valley, and Twin Lake in-lake alum treatment, Golden Valley.

Commissioner Hoshal asked for more details on the water quality improvement site in Golden Valley, which is listed in the TAC memo with an estimated cost of \$200,000. Ms. Chandler provided more details. Chair Black asked about the project listed in the TAC memo as the Twin Lake in-lake alum treatment in Golden Valley. She specifically wondered why the memo lists the project as a one-time alum treatment when the treatment is expected to last for 10 years. Chair Black said it seems that the phosphorous levels would go back to where they were before the treatment. Ms. Chandler said that the levels may not revert to the pre-treatment levels and that the treatment may be enough to disrupt the feedback loop that the phosphorous is in right now. She commented that the CIP lists this as a one-time treatment in order to differentiate it from treatment of inflows coming in to the lake.

Mr. Asche noted that with its CIP recommendations the TAC worked to keep the CIP project costs so that the Commission's levy request would remain steady at approximately one million dollars per year.

Ms. Goddard moved to adopt the recommended CIP for 2014 – 2018 as shown in the CIP table labeled “Revised per April 5, 2012, TAC Meeting” that was attached to the TAC memo in the meeting packet. Commissioner Johnson seconded the motion. Commissioner Hoshal asked about if a chloride project was considered. Ms. Chandler said that 2014 would be too soon for a chloride project.

The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote].

Chair Black asked when the Commission would want to move ahead to order the feasibility studies for the 2014 CIP projects. Mr. Asche replied that the TAC recommends that the Commission move ahead with the feasibility studies and plan amendments two years in advance of the project. Ms. Chandler reminded the Commission that the feasibility report has already been done for the Schaper Pond project.

Chair Black clarified that the Commission needs to move ahead with the feasibility studies for the water quality improvement project in the Main Stem watershed in Golden Valley and for the Twin Lake in-lake alum treatment in Golden Valley. The Commission discussed how it would select who would do the feasibility reports. Ms. Loomis suggested that the Commission leave it up to the City where the project is located to decide which firm from the engineering pool would do the feasibility reports. Mr. Oliver said that the City of Golden Valley hasn’t yet had the conversation on how it would like to proceed in terms of who selects the consultant for the feasibility report and the project design. He said that the City would like to be able to have that conversation and then come back to the Commission with how the City would like to approach it.

Commissioner de Lambert moved to direct the City of Golden Valley to come back to the Commission with a recommendation on how to conduct the feasibility study process for the two 2014 CIP projects that still need feasibility reports. Commissioner Johnson seconded the motion. The motion carried unanimously with seven votes in favor [Cities of Minnetonka and New Hope absent from vote].

The Commission deferred until its next meeting the discussion about member-cities’ post-construction best management practices requirements and review triggers and potential changes to water quality policies pertaining to nutrient loading increases and a water quality banking/trading program.

The TAC noted that it didn’t schedule a meeting for May since it doesn’t have any pressing issues to discuss.

- C. **Next Generation Watershed Management Plan.** Chair Black reported that she, Commissioner Sicora, Commissioner de Lambert, Alternate Commission Hanson, and Ms. Chandler met to discuss the Next Generation Plan planning process. She said that Commissioner Sicora had prepared the draft proposed schedule for the process being handed out. Chair Black said that the proposed schedule was based on the process that Shingle Creek is using. Mr. Sicora said that Shingle Creek is about one-year ahead of the Commission in its own watershed management plan revision process and that the Commission can benefit from the lessons learned by Shingle Creek.

Mr. Sicora walked the Commission through the proposed schedule, starting with the end point of the process – the Commission adopting the final plan at its August 2014 meeting - and working back to the Commission’s kick off of the plan revision process in August of 2012. He explained that the proposed schedule actually begins with pre-kickoff work that would need to be done prior to August 2012. Mr. Sicora emphasized that the schedule is a working document and recommended that the Commission

finalize the planning process schedule in the next couple of months.

Chair Black introduced Mr. Wozney of the Minnesota Board of Water and Soil Resources (BWSR) and said that he is here to answer questions. She said that one of her ideas is that the Commission holds a meeting on the first Thursday of each month to work exclusively on the Next Generation Plan. Chair Black reminded the Commission that it has \$40,000 in its 2012 budget dedicated to the Next Generation Plan.

The Commission asked Mr. Wozney for his thoughts on the draft proposed schedule in the handout. Mr. Wozney replied that the Commission's draft proposed schedule comprises a very reasonable set of steps and he thought that only the citizen advisory component needs fine tuning. He noted that some steps in the process will be eliminated due to the new statutes that will be coming out. Mr. Wozney said that the Commission will want to address the citizen component early on in the process. He stated that if the Commission chooses to not use a traditional citizen advisory committee then the Commission should propose something else to BWSR. Mr. Wozney said that BWSR's idea is to front-end load the input process and to get all of the issues gathered in the beginning of the process, which is what the Commission should strive to do with its citizen input.

Chair Black said that the small group that had met to discuss the proposed plan process and schedule had discussed the idea of creating a Steering Committee for the Next Generation Plan. She said the Steering Committee would be a smaller group that would meet to set agendas for the upcoming monthly plan meeting and would pull together documentation for commissioners to review prior to the monthly meetings. The Commission discussed the idea and discussed possible convenient times to meet as a small group and as the full Commission. The Commission agreed to create a Steering Committee composed of Chair Black, Commissioner de Lambert, Commissioner Sicora, and Ms. Chandler. Alternate Commissioner Goddard agreed to be part of the Committee if the meetings would be handled via WebEx over the lunch hour. Chair Black said that the Committee may need Ms. Herbert to take part in the meetings. Commissioner Sicora recommended that the Committee review the information prepared by Commissioner Sicora and be prepared to work on the draft proposed schedule at the next Committee meeting.

Chair Black agreed and asked the Commission to review the draft proposed schedule and to provide any comments to her, Commissioner Sicora, or Commissioner de Lambert so the comments can be part of the discussion at the Steering Committee's next meeting, which the Committee will schedule.

- D. 2011 Water Quality Monitoring Activities. Deferred to May BCWMC meeting.
- E. Task Cost Estimates for Activities Discussed at the March BCWMC Meeting. Deferred to May BCWMC meeting.
- F. Policy Manual Revisions Presented in January 2012. Deferred to May BCWMC meeting.
- G. Capstone Project. Deferred.

7. COMMUNICATIONS

Chair: None

Commissioners:

1. Commissioner Hoshal informed the Commission about the death of Ferdousi Gramling, BCWMC TAC Member from Medicine Lake, due to cancer.

Committees: None

Counsel Communications: No Counsel Communications.

Engineer Communications: Ms. Chandler asked Chair Black if there is time left in the meeting for Mr. Wozney to report on the Biennial Budget Request (BBR). Chair Black said there is time. Mr. Wozney explained that the BBR is the new initial process for grants. He said that if the Commission anticipates applying for Clean Water Funds in 2014 or 2015 then he recommends the Commission complete a BBR, which is due on June 29, 2012. Mr. Wozney said that the BBR would be required of individual cities interested in applying for grants as well. He said that the BBR is both a tool and a process. Mr. Wozney described the BBR as a spreadsheet that the Commission would fill and list their priority projects for that year. He said that BWSR would then review it and package it and present it to the Governor for 2014 – 2015. Mr. Wozney said that this tool will allow the Legislature to see what the local needs are.

Ms. Chandler said that there is a meeting about this process next Friday and she is planning to attend and she will report back to the Commission. Chair Black asked for it to be added to the Commission’s May agenda. Mr. Wozney noted that entities that fill out the BBR get priority consideration when applying for Clean Water Funds.

9. ADJOURNMENT

The meeting adjourned at 2:10 p.m.

Chair	Date	Amy Herbert, Recorder	Date
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Secretary	Date
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Bassett Creek Watershed Management Commission 2012 Administrative Calendar

January 2012	February 2012	March 2012	April 2012
<p>MEETING – JANUARY 19</p> <ul style="list-style-type: none"> January 5 – TAC meeting, 1:30 p.m. January 31 - End of Fiscal Year Direct auditor to prepare audit report Terms end for Crystal, Golden Valley, and Medicine Lake Resolution to appoint official depositories; Discuss CIP projects' admin expenses reimbursement 	<p>MEETING – FEBRUARY 16</p> <ul style="list-style-type: none"> February 14 – Admin Cmtee meeting; 8:00 a.m. BCWMC Organizational meeting – elect officers; Discuss BCWMC mission and goals; Discuss 2011 Commission – TAC liaisons Assessment payments from member-cities due February 1 	<p>MEETING – MARCH 15</p> <ul style="list-style-type: none"> March 7 –TAC mtg, 1:30 p.m. March 22 – Plymouth Env. Quality Fair March 29 – BCWMC Special Mtg – Next Generation Plan 	<p>MEETING – APRIL 19</p> <ul style="list-style-type: none"> April 5 – TAC mtg; 1:30 p.m. April 13-14 – Plymouth Yard/Garden Expo Audit Report to State Auditor
May 2012	June 2012	July 2012	August 2012
<p>MEETING – MAY 17</p> <ul style="list-style-type: none"> Receiver/ file Audit; Review Draft 2012 Budget; Final Annual Report presented for approval and submitted to BWSR and member cities 	<p>MEETING – JUNE 21</p> <ul style="list-style-type: none"> Budget must be approved by Commission by July 1 to meet 30-day city review; Budget sent to member cities by July 1 for 30-day review 	<p>MEETING – JULY 19</p> <ul style="list-style-type: none"> LMCIT annual invoice; Receive first half of ad valorem tax (early July); 	<p>MEETING – AUGUST 16</p>
September 2012	October 2012	November 2012	December 2012
<p>MEETING–SEPTEMBER 20</p> <ul style="list-style-type: none"> Submit maximum levy ad valorem tax request to Hennepin County 	<p>MEETING – OCTOBER 18</p> <ul style="list-style-type: none"> Prepare letters re: deadline to receive applications for the Channel Maintenance Fund during next year's construction season 	<p>MEETING– WEDNESDAY, NOVEMBER 15</p>	<p>MEETING – DECEMBER 20</p> <ul style="list-style-type: none"> Prepare resolution to transfer 2011 funds from admin acct. to TMDL, Long-term maint., and channel erosion accounts.

Monthly Meeting

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

Commissioner	Alternate Commissioner	Technical Advisory Committee Member
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Crystal – 2015

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Vacant

Tom Mathisen
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Golden Valley – 2015

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New Hope – 2013

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Plymouth – 2014

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Bassett Creek Watershed Management Commission General Account
 General Fund (Administration) Financial Report
 Fiscal Year: February 1, 2012 through January 31, 2013
 MEETING DATE: May 17, 2012

BEGINNING BALANCE	10-Apr-12		786,142.80
ADD:			
General Fund Revenue:			
Interest (Bank Charges)		13.17	
2012-13 Assessments:			
Have not received St Louis Park Assessment			
Permits:			
Plymouth BCWMC 2012-10		1,000.00	
Ultimate Events Inc BCWMC 2012-9		1,500.00	
Reimbursed Construction Costs		839.60	
			3,352.77
DEDUCT:			
Checks:			
2434 Prairie Moon Nursery Seed Packets		269.33	
2435 Barr Engineering April Engineering Serv		25,762.61	
2436 D'Amico May Meeting		342.74	
2437 Amy Herbert April Secretarial		2,403.48	
2438 Kennedy & Graven March Legal		1,132.17	
2439 MMKR Audit Services		3,600.00	
			33,510.33
Outstanding from previous month:			
Meadowbrook School 2009 Exp-Grant		992.08	
2431 Hamline University Watershed Partners		3,000.00	
			755,985.24
ENDING BALANCE	8-May-12		

	2012/2013 BUDGET	CURRENT MONTH	YTD 2012/2013	BALANCE
OTHER GENERAL FUND REVENUE				
INTEREST (BANK CHARGES)		13.17	(8.34)	
ASSESSMENTS	461,045	0.00	443,742.00	17,303.00
PERMIT REVENUE	48,000	2,500.00	12,800.00	35,200.00
REVENUE TOTAL	509,045	2,513.17	456,533.66	52,503.00
EXPENDITURES				
ENGINEERING				
ADMINISTRATION	120,000	8,921.20	31,385.30	88,614.70
PLAT REVIEW	60,000	4,180.00	13,329.39	46,670.61
COMMISSION MEETINGS	14,250	913.50	3,310.82	10,939.18
SURVEYS & STUDIES	10,000	0.00	0.00	10,000.00
WATER QUALITY/MONITORING	20,000	1,452.00	2,589.50	17,410.50
WATER QUANTITY	11,000	962.22	1,851.33	9,148.67
WATERSHED INSPECTIONS	7,000	618.00	618.00	6,382.00
ANNUAL FLOOD CONTROL INSPECTIONS	9,000	638.00	638.00	8,362.00
REVIEW MUNICIPAL PLANS	2,000	0.00	0.00	2,000.00
ENGINEERING TOTAL	253,250	17,684.92	53,722.34	199,527.66
PLANNING				
WATERSHED-WIDE SP-SWMM MODEL	70,000	3,709.00	4,674.50	65,325.50
WATERSHED-WIDE P8 WATER QUALITY MODEL	135,000	560.00	10,342.00	124,658.00
NEXT GENERATION PLAN	40,000	1,719.00	4,135.50	35,864.50
PLANNING TOTAL	245,000	5,988.00	19,152.00	225,848.00
ADMINISTRATOR	50,000	0.00	0.00	50,000.00
LEGAL COSTS	18,500	1,017.57	2,093.83	16,406.17
AUDIT, INSURANCE & BONDING	15,225	3,600.00	8,150.00	7,075.00
FINANCIAL MANAGEMENT	3,045	0.00	0.00	3,045.00
MEETING EXPENSES	2,750	342.74	1,337.72	1,412.28
SECRETARIAL SERVICES	40,000	2,651.67	8,079.94	31,920.06
PUBLICATIONS/ANNUAL REPORT	2,000	986.00	1,652.00	348.00
WEBSITE	2,500	0.00	0.00	2,500.00
PUBLIC COMMUNICATIONS	3,000	0.00	0.00	3,000.00
WOMP	10,000	130.50	130.50	9,869.50
EDUCATION AND PUBLIC OUTREACH	5,775	269.33	4,019.94	1,755.06
WATERSHED EDUCATION PARTNERSHIPS	13,000	0.00	0.00	13,000.00
EROSION/SEDIMENT (CHANNEL MAINT)	25,000	0.00	0.00	25,000.00
LONG TERM MAINTENANCE (moved to CF)	25,000	0.00	0.00	25,000.00
TMDL STUDIES (moved to CF)	10,000	0.00	0.00	10,000.00
GRAND TOTAL	724,045	32,670.73	98,338.27	625,706.73

Cash Balance 4/10/12			
Cash		1,363,817.66	
Investments:			
Federal National Mtg Assn - Purchased 4/23/12 - Due 4/23/2015 - .912%(callable 04/23/13 .25%)		1,009,981.28	
	Total Cash & Investments		2,373,798.94
Add:			
Interest Revenue (Bank Charges)		61.66	
BWSR Grant - Golden Valley		108,750.00	
	Total Revenue		108,811.66
Less:			
CIP Projects Levied - Current Expenses - TABLE A		(839.60)	
Proposed & Future CIP Projects to Be Levied - Current Expenses - TABLE B		0.00	
	Total Current Expenses		(839.60)
	Total Cash & Investments On Hand	05/08/12	2,481,771.00
Total Cash & Investments On Hand		2,481,771.00	
CIP Projects Levied - Budget Remaining - TABLE A		(3,144,362.82)	
Closed Projects Remaining Balance		(662,591.82)	
2012 Anticipated Tax Levy Revenue - TABLE C		998,000.00	
Anticipated Closed Project Balance		335,408.18	
2013 Proposed & Future CIP Project Amount to be Levied - TABLE B		196,000.00	

TABLE A - CIP PROJECTS LEVIED

	Approved Budget	Current Expenses	2012 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget
Twin Lake-expected completion 2006	140,000.00	0.00	0.00	5,724.35	134,275.65
West Medicine Lake Park Pond	1,100,000.00	0.00	0.00	744,633.58	355,366.42
Plymouth Creek Channel Restoration (2010)	965,200.00	0.00	42,393.59	928,569.11	36,630.89
Main Stem Crystal to Regent (2010)	636,100.00	0.00	526.50	259,002.52	377,097.48
Wisc Ave/Duluth Street-Crystal (2011 CR)	580,200.00	638.00	7,779.88	51,693.35	528,506.65
North Branch-Crystal (2011 CR-NB)	834,900.00	0.00	0.00	41,967.86	792,932.14
Plymouth Pond NB-07(NL-2)	0.00	0.00	1,177.72	9,866.09	(9,866.09)
Wirth Lake Outlet Modification (WTH-4)(2012)	180,000.00	0.00	1,049.00	26,278.34	153,721.66
Main Stem Irving Ave to GV Road (2012 CR)	856,000.00	201.60	3,475.55	76,843.52	779,156.48
Schaper Pond Enhancement Feasibility (SL-1)	37,000.00	0.00	825.97	40,458.46	(3,458.46)
	5,329,400.00	839.60	57,228.21	2,185,037.18	3,144,362.82

TABLE B - PROPOSED & FUTURE CIP PROJECTS TO BE LEVIED

	Approved Budget - To Be Levied	Current Expenses	2012 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget
2013					
Lakeview Park Pond (2013)	196,000.00	0.00	0.00	2,113.50	193,886.50
2013 Project Totals	196,000.00	0.00	0.00	2,113.50	193,886.50
Total Proposed & Future CIP Projects to be Levied	196,000.00	0.00	0.00	2,113.50	193,886.50

TABLE C - TAX LEVY REVENUES

	County Levy	Abatements / Adjustments	Adjusted Levy	Current Received	Year to Date Received	Inception to Date Received	Balance to be Collected	BCWMO Levy
2012 Tax Levy	998,000.00		998,000.00			0.00	998,000.00	998,000.00
2011 Tax Levy	863,268.83	(2,871.91)	860,396.92			850,946.51	9,450.41	862,400.00
2010 Tax Levy	935,298.91	(4,927.05)	930,371.86			927,004.63	3,367.23	935,000.00
2009 Tax Levy	800,841.30	(8,054.68)	792,786.62			792,142.93	643.69	800,000.00
2008 Tax Levy	908,128.08	(4,357.22)	903,770.86			903,546.00	224.86	907,250.00
2007 Tax Levy	190,601.74	(657.93)	189,943.81			189,939.15	4.66	190,000.00
2006 Tax Levy	531,095.47	(2,736.30)	528,359.17			528,512.20	(153.03)	519,000.00
				0.00			1,011,537.82	

OTHER PROJECTS:

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

Cash Balance 4/10/12		1,305,978.20
Add:		
MPCA Grant-Sweeney Lk		0.00
Less:		
Current (Expenses)/Revenue		0.00
Ending Cash Balance	05/08/12	<u>1,305,978.20</u>

CIP Projects Levied									
Total			2010	2010	2011	2011	2011	2012	
CIP Projects Levied	Twin Lake	West Medicine Lake Park Pond (2008-1)	Plymouth Creek Channel Restoration (CR)	Main Stem Crystal to Regent (CR)	Wisc Ave (Duluth Str)- Crystal (GV)	North Branch - Crystal (CR-NB)	Plymouth Pond NB-07 (NL-2)	Wirth Lake Outlet Modification (WTH-4)	
Original Budget	5,329,400	140,000	1,100,000	965,200	636,100	580,200	834,900	180,000	
Expenditures:									
Feb 2004 - Jan 2005	1,983.50	1,983.50							
Feb 2005 - Jan 2006	1,716.70	1,716.70							
Feb 2006 - Jan 2007	2,164.95	375.70	1,789.25						
Feb 2007 - Jan 2008	1,871.70	36.00	1,835.70						
Feb 2008 - Jan 2009	39,346.36		18,392.11	20,954.25					
Feb 2009 - Jan 2010	23,188.45	1,612.45	687.00	9,319.95	11,569.05				
Feb 2010 - Jan 2011	835,966.15		721,929.52	30,887.00	11,590.80	34,803.97	31,522.86	602.00	
Feb 2011 - Jan 2012	1,221,571.16			825,014.32	235,316.17	9,109.50	10,445.00	8,086.37	
Feb 2012 - Jan 2013	57,228.21			42,393.59	526.50	7,779.88		1,177.72	
Total Expenditures:	2,185,037.18	5,724.35	744,633.58	928,569.11	259,002.52	51,693.35	41,967.86	9,866.09	26,278.34
Project Balance	3,144,362.82	134,275.65	355,366.42	36,630.89	377,097.48	528,506.65	792,932.14	(9,866.09)	153,721.66

Total			2010	2010	2011	2011	2011	2012	
CIP Projects Levied	Twin Lake	West Medicine Lake Park Pond (2008-1)	Plymouth Creek Channel Restoration (CR)	Main Stem Crystal to Regent (CR)	Wisc Ave (Duluth Str)- Crystal (GV)	North Branch - Crystal (CR-NB)	Plymouth Pond NB-07 (NL-2)	Wirth Lake Outlet Modification (WTH-4)	
Project Totals By Vendor									
Barr Engineering	305,506.63	3,758.10	7,004.91	42,743.60	25,808.00	46,883.20	30,790.21	8,891.99	
Kennedy & Graven	14,461.85	1,966.25	1,427.15	2,120.10	2,435.25	792.65	792.65	974.10	
City of Golden Valley	222,788.32				222,788.32				
City of Plymouth	1,597,345.38		736,201.52	861,143.86					
Com of Trans									
S E H									
Misc									
2.5% Admin Transfer	44,935.00			22,561.55	7,970.95	4,017.50	10,385.00		
Total Expenditures	2,185,037.18	5,724.35	744,633.58	928,569.11	259,002.52	51,693.35	41,967.86	9,866.09	26,278.34

Total			2010	2010	2011	2011	2011	2012
CIP Projects Levied	Twin Lake	West Medicine Lake Park Pond (2008-1)	Plymouth Creek Channel Restoration (CR)	Main Stem Crystal to Regent (CR)	Wisc Ave (Duluth Str)- Crystal (GV)	North Branch - Crystal (CR-NB)	Plymouth Pond NB-07 (NL-2)	Wirth Lake Outlet Modification (WTH-4)
Levy/Grant Details								
2009/2010 Levy	935,000			902,462	32,538			
2010/2011 Levy	862,400				286,300	160,700	415,400	
2011/2012 Levy	775,000							175,000
Construction Fund Balance	904,000		62,738	2,262	419,500	419,500		
BWSR Grant- BCWMO	652,500		212,250	147,750				75,000
Total Levy/Grants	4,128,900		1,177,450	468,850	580,200	834,900		250,000
BWSR Grants Received			191,025	132,975				67,500

Bassett Creek Construction Project Details

	2012 Main Stem Irving Ave to GV Road (2012CR)	2012 Schaper Pond Enhancement Feasibility (SL-1)
Original Budget	856,000	37,000
Expenditures:		
Feb 2004 - Jan 2005		
Feb 2005 - Jan 2006		
Feb 2006 - Jan 2007		
Feb 2007 - Jan 2008		
Feb 2008 - Jan 2009		
Feb 2009 - Jan 2010		
Feb 2010 - Jan 2011	1,720.00	
Feb 2011 - Jan 2012	71,647.97	39,632.49
Feb 2012 - Jan 2013	3,475.55	825.97
Total Expenditures:	76,843.52	40,458.46
Project Balance	779,156.48	(3,458.46)

Proposed & Future CIP Projects (to be Levied)	
Total	2013
Proposed & Future CIP Projects (to be Levied)	Lakeview Park Pond (ML-8)
196,000	196,000
637.50	637.50
1,476.00	1,476.00
2,113.50	2,113.50
193,886.50	193,886.50

	2012 Main Stem Irving Ave to GV Road (2012CR)	2012 Schaper Pond Enhancement Feasibility (SL-1)
Project Totals By Vendor		
Barr Engineering	75,153.17	40,420.26
Kennedy & Graven	1,690.35	38.20
City of Golden Valley		
City of Plymouth		
Com of Trans		
S E H		
Misc		
2.5% Admin Transfer		
Total Expenditures	76,843.52	40,458.46

Total	2013
Proposed & Future CIP Projects (to be Levied)	Lakeview Park Pond (ML-8)
2,068.50	2,068.50
45.00	45.00
2,113.50	2,113.50

	2012 Main Stem Irving Ave to GV Road (2012CR)	2012 Schaper Pond Enhancement Feasibility (SL-1)
Levy/Grant Details		
2009/2010 Levy		
2010/2011 Levy		
2011/2012 Levy	600,000	
Construction Fund Balance		
BWSR Grant- BCWMO	217,500	
Total Levy/Grants	817,500	
BWSR Grants Received	108,750	

Total	2013
Proposed & Future CIP Projects (to be Levied)	Lakeview Park Pond (ML-8)
196,000	196,000
196,000	196,000



Memorandum

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

3C. 6G. 2011 Water Quality Monitoring Activities, Westwood Lake and Crane Lake

Recommendations:

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

Background

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

2011 Lake Water Quality Study

Westwood Lake and Crane Lake

*Prepared by
Bassett Creek Watershed Management Commission*

January 2012



Executive Summary

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

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

The conclusions from 2011 water quality monitoring are as follows:

Crane Lake

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

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

Westwood Lake

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

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

Recommendations

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

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

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

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

~~6E~~
3D.

3.2.2 Capital Improvement Program Funding

Policy: The ~~County will~~ Commission will certify costs of capital projects costing more than \$25,000 to Hennepin County so that the County may levy an ad valorem watershed-wide tax for ~~capital~~ the projects of greater than \$25,000.

Description: This process provides transparent oversight of Board decisions by elected representatives of member cities and Hennepin County. The BCWMC has been implementing its capital improvement program (CIP) since 2004. As called for in the BCWMC's approved watershed management plan, the BCWMC funds its water quality improvement projects using an ad valorem tax levy administered by Hennepin County (MN Minnesota Statutes, Section 103B.251). Although the BCWMC provides the funding, the member cities are responsible for constructing the CIP projects.

Applicable funding: Hennepin County ad valorem tax levy throughout the Bassett Creek watershed.

Adopted: 2004

Citation: Joint Powers Agreement, Section VII, Method of Proceeding, Subd. 5 and MN Statute Minnesota Statutes, Section 103B.251.

Strategies to Implement Policy:

1. Each year ~~in December~~, the BCWMC member cities are contacted and asked if there are any recommended changes to the BCWMC CIP.
2. In ~~January~~ April of every year, the BCWMC's Technical Advisory Committee (made up of city technical staff) reviews the projects in the BCWMC CIP and discusses any recommendations received from the member cities ~~as a result of the December solicitation~~. The TAC makes a recommendation to the Commission regarding the ~~CIP~~ five-year CIP. The five-year period commences with the calendar year two years after the recommendation (e.g. the recommendation in 2012 is for the 2014-2018 CIP).
3. ~~Also in January~~ In September, the Commission reviews and takes action on the TAC's CIP recommendation. Action includes authorization for staff to begin preliminary engineering for the first year of the five-year CIP.
4. After ordering the project, the BCWMC certifies to Hennepin County ~~the tax levy~~ project costs that ~~is needed for~~ will be funded by the County in the following year.
5. The procedures set forth in the joint powers agreement are similar to those followed by cities in the case of capital projects paid for by special assessments under Minnesota Statutes, Chapter 429. As in the case of 429 improvement

projects, the process begins with the preparation of a feasibility report on the proposed project.

6. Following receipt of the feasibility report, the Commission ~~would hold~~ holds a hearing on the proposed project, giving at least 45 days notice to the clerk of each member city.
7. Following the hearing, the Commission ~~could order~~ orders the project by a 2/3 vote of its members. That order ~~would designate~~ designates the cities responsible to construct the project, ~~direct~~ directs the preparation of plans and specifications, and ~~specify~~ (for any projects that are not funded by the County through a watershed-wide tax levy) specifies the percentage of project costs that are to be paid by each member.
8. ~~The Commission may use one of several means to determine the amount to be paid by each member city.~~ If the Commission does not use Minnesota Statutes, Section 103B.251 to fund a project, costs will be assessed to member cities under the joint powers agreement. Under the agreement the costs may be allocated among member cities as follows:
 - a. First, the funding may be provided on the basis of a negotiated settlement among member cities.
 - b. Second, the cost may be provided by member cities on the same basis as the administrative formula (50% based on net tax capacity of property within the watershed and 50% based on area within the watershed).
 - c. Third, the Commission may modify the "50/50" formula by a 2/3 vote if it determines that any member community receives a direct benefit from the capital improvement that can be defined as lateral as well as a trunk benefit (which our legal counsel assumes would generally be a concept applied to water quantity rather than water quality projects), or if the Commission determines that the project provides direct benefit to one or more cities that is so disproportionate as to require in a sense of fairness a modification to the 50/50 formula. Any city aggrieved by the determination of the cost allocation may appeal the decision and have it submitted to arbitration.
9. — Following the issuance of the order for ~~the~~ an improvement, that will not be funded under Minnesota Statutes, Section 103B.251, each city will be given at least 90 days to determine the method it will use to raise its share of the project cost. After 90 days has elapsed, or notice has been received, by the Commission from each city that it has made such a determination, the Commission may order the advertisement for bids for the project.

The project will be constructed by the city assigned responsibility for the project. Other cities will pay, or contract for the payment of, ~~its share~~ their shares of the cost. Payment is to be made by member cities within 30 days of statements from the engineer certifying that the work has been done.

Bassett Creek Recording Administrator

From: LeFevere, Charlie L. [clefevere@Kennedy-Graven.com]
Sent: Wednesday, January 25, 2012 2:56 PM
To: Bassett Creek Recording Administrator
Cc: Karen Chandler
Subject: Policy Manual

Amy,

Please forward this to the Administrative Committee. I believe Chair Loomis said they were meeting on the 27th.

At the last Commission meeting, there was a discussion of changes to section 3.2.2 of the Policy Manual that had been prepared by staff. I noted that Karen and I felt that the Manual might be more user-friendly if the materials related to the various funds were organized together in the Manual. In some cases funds aren't mentioned in the Manual and in other cases they are described, but in unrelated sections of the Manual under EXTERNAL / OPERATONAL POLICIES. Chair Loomis asked for a short memo describing the proposed changes for the Admin Committee to consider.

I would recommend that the policy be supplemented and rearranged so that there is a new section 3.3 called "Funds and Fund Management" that would include:

- 3.3 Funds and Fund Management
- 3.3.1 Flood Control Project Long Term Maintenance Fund
- 3.3.2 Flood Control Emergency Repair Project Fund
- 3.3.3 Floodproofing Fund
- 3.3.4 Creek and Streambank Trunk System Maintenance, Repair and Sediment Removal Fund [currently section 3.5]
- 3.3.5 Capital Improvement Program closed Project Account and Account Policy [currently section 3.4]
- 3.3.6 Administrative Expense Charges to Capital Improvement Fund [currently section 3.3]

Perhaps there should also be some explanation of the General or Administrative Fund and individual capital project funds. The text under 3.3 could also explain that the funds and accounts are just bookkeeping categories. I don't know whether Lee Gustafson's project of simplifying financial reports would affect the Manual. If so, it might be better to wait until that process is complete.

Charles L. LeFevere
Kennedy and Graven, Chartered
470 U. S. Bank Plaza
200 South Sixth Street
Minneapolis, MN 55402
Telephone: (612) 337-9215
Fax: (612) 337-9310
clefevere@kennedy-graven.com



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

Page # 1
Invoice # 23270051-2012-3
Project # 23/27-0051
Client # 59
May 4, 2012

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
March 31, 2012 through April 27, 2012

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, recording administrator, watershed communities, developers in the watershed, Minneapolis Park and Recreation Board (MPRB), Three Rivers Park District (TRPD), Mississippi Watershed Management Organization, Minnesota Department of Transportation (Mn/DOT), Hennepin County, Minnesota Board of Water and Soil Resources (BWSR), Metropolitan Council Environmental Services (MCES), Minnesota Pollution Control Agency (MPCA), Corps of Engineers and interested citizens; coordination with recording administrator regarding post-meeting tasks; responded to request from Hennepin County staff regarding member city contributions; communication with Golden Valley staff regarding CIP; located and provided Medicine Lake dam/outlet and lake level information to Commissioners, Alternate Commissioners, TAC, AMLAC and City of Medicine Lake; communications with DNR regional hydrologist regarding drought conditions and lake water levels; communications with Golden Valley staff regarding Sweeney Lake outlet; communications with Alternate Commissioner Goddard regarding aftermath of tornado clean-up in Wirth Park.

Leonard J. Kremer, Principal Engineer/Scientist 4.2 hours @ \$160.00 per hour	\$ 672.00
James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$145.00 per hour	\$ 217.50
Karen L. Chandler, Engineer/Scientist/Specialist III 7.3 hours @ \$145.00 per hour	\$ 1,058.50
Technicians/Administrative.....	\$ 324.50
Expenses (mileage/copies)	\$ 175.70
<i>Subtotal, Technical Services.....</i>	<i>\$ 2,448.20</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; phone call with Golden Valley staff regarding residential development requirements; phone call from CEI regarding site requirements for project; coordination regarding development question in New Hope; call from resident regarding channel dredging on Medicine Lake.

James P. Herbert, Principal Engineer/Scientist 2.1 hours @ \$145.00 per hour	\$	304.50
Karen L. Chandler, Engineer/Scientist/Specialist III 0.9 hours @ \$145.00 per hour	\$	<u>130.50</u>
<i>Subtotal, Preliminary Site Review/Correspondence</i>	<i>\$</i>	<i>435.00</i>

MONTHLY MEETING PREPARATION

Reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with recording administrator; communications with chair and recording administrator; internal meetings and coordination with recording administrator regarding agenda, to-do list and meeting packet for April 2012 meeting.

Leonard J. Kremer, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour	\$	160.00
James P. Herbert, Principal Engineer/Scientist 15.2 hours @ \$145.00 per hour	\$	2,204.00
Karen L. Chandler, Engineer/Scientist/Specialist III 13.3 hours @ \$145.00 per hour	\$	1,928.50
Nathan D. Campeau, Engineer/Scientist/Specialist II 0.3 hours @ \$115.00 per hour	\$	<u>34.50</u>
<i>Subtotal, Monthly Meeting Preparation.....</i>	<i>\$</i>	<i>4,327.00</i>

CHANNEL MAINTENANCE FUND

Call from counsel regarding channel maintenance fund and contracts.

Karen L. Chandler, Engineer/Scientist/Specialist III 0.5 hours @ \$145.00 per hour.....	\$	<u>72.50</u>
<i>Subtotal, Channel Maintenance Fund.....</i>	<i>\$</i>	<i>72.50</i>

TAC MEETING PREPARATION

Coordination with recording administrator and TAC members regarding April 5, 2012 TAC meeting and preparation of TAC materials; preparation for TAC meeting and review of meeting packet, revised standards comparison table and emailed to TAC members for review; preparation of draft TAC memo.

James P. Herbert, Principal Engineer/Scientist 1.6 hours @ \$145.00 per hour	\$	232.00
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Karen L. Chandler, Engineer/Scientist/Specialist III 9.7 hours @ \$145.00 per hour.....	\$ 1,406.50
<i>Subtotal, TAC Meeting Preparation</i>	<i>\$ 1,638.50</i>
 <i>Subtotal Technical Services</i>	 <i>\$ 8,921.20</i>

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.

Menards Golden Valley

Erosion control inspection.

Technicians/Administrative.....	\$ 127.50
<i>Subtotal, Menards Golden Valley.....</i>	<i>\$ 127.50</i>

Wirth Lake 2010 Site Improvements

Erosion control inspection.

Technicians/Administrative.....	\$ 153.00
<i>Subtotal, Wirth Lake 2010 Site Impr.....</i>	<i>\$ 153.00</i>

GV Little League BB Fields

Erosion control inspection.

Technicians/Administrative.....	\$ 76.50
<i>Subtotal, GV Little League BB Fields.....</i>	<i>\$ 76.50</i>

Venture Bank

Erosion control inspection.

Technicians/Administrative.....	\$ 68.00
<i>Subtotal, Venture Bank.....</i>	<i>\$ 68.00</i>

Plymouth Business Center Parking

Erosion control inspection.

Technicians/Administrative.....	\$ 68.00
<i>Subtotal, Plymouth Business Center Parking.....</i>	<i>\$ 68.00</i>

Tennant Co. Site Improvements

Erosion control inspection.

Technicians/Administrative.....	\$	85.00
<i>Subtotal, Tennant Co. Site Improvements</i>	\$	85.00

Zachary Park Hockey Rink

Erosion control inspection.

Technicians/Administrative.....	\$	76.50
<i>Subtotal, Zachary Park Hockey Rink.....</i>	\$	76.50

Annapolis Lane Reconstruction

Erosion control inspection.

Technicians/Administrative.....	\$	68.00
<i>Subtotal, Annapolis Lane Reconstruction</i>	\$	68.00

MCES 1-GV-361

Erosion control inspection.

Technicians/Administrative.....	\$	85.00
<i>Subtotal, MCES 1-GV-361</i>	\$	85.00

CP Rail Bridge Replacement

Erosion control inspection.

Technicians/Administrative.....	\$	85.00
<i>Subtotal, CP Rail Bridge Replacement</i>	\$	85.00

1200 Angelo Drive

Erosion control inspection.

Technicians/Administrative.....	\$	76.50
<i>Subtotal, 1200 Angelo Drive</i>	\$	76.50

Cornerstone Church

Erosion control inspection.

Technicians/Administrative.....	\$	102.00
<i>Subtotal, Cornerstone Church.....</i>	\$	102.00

CVS Pharmacy – New Hope

Erosion control inspection.

Technicians/Administrative.....	\$	76.50
<i>Subtotal, CVS Pharmacy – New Hope</i>	\$	76.50

Hazelden Site Expansion

Erosion control inspection.

Technicians/Administrative.....	\$	76.50
<i>Subtotal, Hazelden Site Expansion</i>	\$	76.50

Robbinsdale 2011 Street Reconstruction

Coordination with Robbinsdale staff, reviewed revised street reconstruction plans and prepared letter of approval to the City.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$145.00 per hour	\$	72.50
Rita W. Weaver, Engineer/Scientist/Specialist II 0.8 hours @ \$100.00 per hour	\$	80.00
<i>Subtotal, Robbinsdale 2011 St. Reconstruction.....</i>	\$	152.50

228 Peninsula Road

Several phone conversations with owner, architect and city staff; reviewed preliminary grading, drainage and erosion control plan; prepared memorandum to the Commission; attended April 6, 2012 meeting with applicant; reviewed revised grading, drainage and erosion control plan; calculated floodplain impacts at the site; revised Commission recommendations; prepared letter of approval to the City of Medicine Lake.

James P. Herbert, Principal Engineer/Scientist 7.2 hours @ \$145.00 per hour	\$	1,044.00
Karen L. Chandler, Engineer/Scientist/Specialist III 1.4 hours @ \$145.00 per hour	\$	203.00
Rita W. Weaver, Engineer/Scientist/Specialist II 10.2 hours @ \$100.00 per hour	\$	1,020.00
<i>Subtotal, 228 Peninsula Road.....</i>	\$	2,267.00

Breck School Phase 1 Addition

Several phone conversations with applicant, preliminary review of site plan, including requests for revised drawings and signed application.

James P. Herbert, Principal Engineer/Scientist		
2.6 hours @ \$145.00 per hour	\$	377.00
<i>Subtotal, Breck School Phase 1 Addition.....</i>	\$	377.00

Ultimate Event Parking Expansion

Preliminary review of site plan.

James P. Herbert, Principal Engineer/Scientist 0.2 hours @ \$145.00 per hour	\$ 29.00
<i>Subtotal, Ultimate Event Parking Expansion</i>	<i>\$ 29.00</i>

Plymouth 2012 Street Recon: Circle Park

Coordination with Plymouth staff and preliminary review.

James P. Herbert, Principal Engineer/Scientist 0.9 hours @ \$145.00 per hour	\$ 130.50
<i>Subtotal, Plymouth 2012 Street Recon: Circle Park.....</i>	<i>\$ 130.50</i>

Subtotal Plat Review \$ ***4,180.00***

COMMISSION AND TAC MEETINGS

Attended April 19, 2012 Commission meeting and April 5, 2012 TAC meeting.

Karen L. Chandler, Engineer/Scientist/Specialist III 6.3 hours @ \$145.00 per hour.....	\$ 913.50
<i>Subtotal, Commission Meetings.....</i>	<i>\$ 913.50</i>

WATER QUALITY MONITORING

Preparation of the Crane Lake/Westwood Lake presentation regarding the water quality report for the April Commission meeting; performed Twin Lake internal-phosphorus loading calculations; prepared information for Northwood Lake residents regarding BCWMC requirements and the types of projects that require Commission approval; phone call with New Hope residents regarding Northwood Lake water quality, TMDL and shoreline projects.

Henry M. Runke, Principal Engineer/Scientist 1.0 hours @ \$165.00 per hour	\$ 165.00
James P. Herbert, Principal Engineer/Scientist 5.5 hours @ \$145.00 per hour	\$ 797.50
Karen L. Chandler, Engineer/Scientist/Specialist III 2.9 hours @ \$145.00 per hour.....	\$ 420.50
Margaret R. Rattei, Engineer/Scientist/Specialist II 0.6 hours @ \$115.00 per hour	\$ 69.00
<i>Subtotal, Water Quality Monitoring</i>	<i>\$ 1,452.00</i>

WATER QUANTITY

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

James P. Herbert, Principal Engineer/Scientist 1.2 hours @ \$145.00 per hour	\$ 174.00
Technicians/Administrative.....	\$ 663.00
Expenses (Mileage/2WD vehicle)	\$ 125.22
<i>Subtotal, Water Quantity</i>	\$ 962.22

WATERSHED INSPECTION

Preparation of erosion control letter and distribution to each city.

James P. Herbert, Principal Engineer/Scientist 1.8 hours @ \$145.00 per hour	\$ 261.00
Technicians/Administrative.....	\$ 357.00
<i>Subtotal, Watershed Inspection</i>	\$ 618.00

FLOOD CONTROL PROJECT INSPECTION

Reviewed historical inspections and performed inspection of Medicine Lake Dam; prepared notes to the file.

James P. Herbert, Principal Engineer/Scientist 4.4 hours @ \$145.00 per hour	\$ 638.00
<i>Subtotal, Flood Control Project Inspection</i>	\$ 638.00

TOTAL ENGINEERING.....\$ 17,684.92

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

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

Expenses (B&W/color copies/postage).....	\$ 248.19
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TOTAL SECRETARIAL SERVICES EXPENSES\$ 248.19

PLANNING

WATERSHED-WIDE XP-SWMM MODEL

Coordination regarding watershed-wide XP-SWMM model; data management and preparation of

watershed divides throughout the watershed.

Gregory J. Wilson, Engineer/Scientist/Specialist III 3.0 hours @ \$140.00 per hour	\$ 420.00
Ross S. Mullen, Engineer/Scientist/Specialist I 50.6 hours @ \$65.00 per hour	\$ 3,289.00
<i>Subtotal, Watershed-wide XP-SWMM Model.....</i>	<i>\$ 3,709.00</i>

WATERSHED-WIDE P8 WATER QUALITY MODEL

Coordination regarding watershed-wide P8 water quality model; reviewed Bassett Creek watershed data and pond dead storage data; coordination and data collection in Crystal, Robbinsdale and St. Louis Park.

Gregory J. Wilson, Engineer/Scientist/Specialist III 4.0 hours @ \$140.00 per hour	\$ 560.00
<i>Subtotal, Watershed-Wide P8 Water Quality Model.....</i>	<i>\$ 560.00</i>

NEXT GENERATION PLAN

Coordination regarding Next Generation Plan tasks; emails to chair, Commissioner Sicora and Commissioner DeLambert regarding Next Generation Plan meeting; provided Shingle Creek information to Chair Black and Commissioner DeLambert; prepared for April 13 conference call; reviewed Shingle Creek planning process materials; internal meeting to discuss BCWMC next generation plan issues; emailed information to Commissioner Sicora regarding 8410 requirements and reviewed timelines and key dates; prepared for and attended conference call with chair Black and Commissioners DeLambert and Sicora regarding planning process;

Leonard J. Kremer, Principal Engineer/Scientist 1.5 hours @ \$160.00 per hour	\$ 240.00
Karen L. Chandler, Engineer/Scientist/Specialist III 10.2 hours @ \$145.00 per hour	\$ 1,479.00
<i>Subtotal, Next Generation Plan.....</i>	<i>\$ 1,719.00</i>

TOTAL PLANNING\$ 5,988.00

ANNUAL REPORT

ANNUAL REPORT

Preparation of 2011 annual report.

Karen L. Chandler, Engineer/Scientist/Specialist III 6.8 hours @ \$145.00 per hour	\$ 986.00
<i>Subtotal, Technical Services.....</i>	<i>\$ 986.00</i>

TOTAL ANNUAL REPORT\$ 986.00

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Telephone call from Met Council staff and follow-up regarding WOMP station monitoring.

Karen L. Chandler, Engineer/Scientist/Specialist III	
0.9 hours @ \$145.00 per hour	\$ 130.50
<i>Subtotal, Watershed Outlet Monitoring Program.....</i>	<i>\$ 130.50</i>
TOTAL WOMP.....	\$ 130.50

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

WISCONSIN AVENUE – CRYSTAL (2011 CR)

Communication with City staff and its consultant; reviewed revised plans submitted by Golden Valley’s consultant and provided comments; coordination with Recording Administrator regarding project status; prepared letter of recommendation to the City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
4.4 hours @ \$145.00 per hour	\$ 638.00
<i>Subtotal, Wisconsin Avenue - Crystal.....</i>	<i>\$ 638.00</i>

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

Coordination and internal meeting regarding project status; responded to public inquiry regarding project status.

James P. Herbert, Principal Engineer/Scientist	
0.3 hours @ \$145.00 per hour	\$ 43.50
Karen L. Chandler, Engineer/Scientist/Specialist III	
0.3 hours @ \$145.00 per hour.....	\$ 43.50
<i>Subtotal, Irving Avenue to Golden Valley Road.....</i>	<i>\$ 87.00</i>

TOTAL CAPITAL IMP PROJECTS (Tax Levy)\$ 725.00

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

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

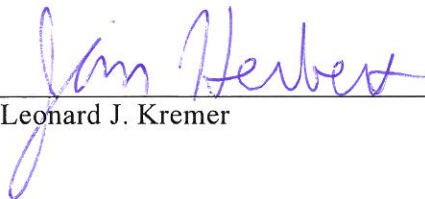
TMDL STUDIES

TOTAL TMDL STUDIES.....\$ 0.00

SUMMARY TOTALS

Total Engineering.....	\$ 17,684.92
Total Secretarial Services Expenses	\$ 248.19
Total Planning.....	\$ 5,988.00
Total Annual Report	\$ 986.00
Total WOMP	\$ 130.50
Total Capital Improvement Projects (Tax Levy)	\$ 725.00
Total Capital Improvement Projects (Maintenance Funds)	\$ 0.00
Total TMDL Studies	\$ <u>0.00</u>
TOTAL PAYABLE.....	\$ 25,762.61

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



Leonard J. Kremer

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

(612) 337-9300

April 18, 2012
Statement No. 107682

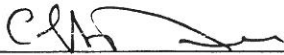
Bassett Creek Water Management
Commission
Sue Virnig
7800 Golden Valley Road
Golden Valley, MN 55427

Through March 31, 2012

BA295-00001	General	1,017.57
BA295-00009	Stream Bank Stabilization	114.60

Total Current Billing: 1,132.17

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



Signature of Claimant

Kennedy & Graven, Chartered

200 South Sixth Street
 Suite 470
 Minneapolis, MN 55402

Bassett Creek Water
 Sue Virnig

March 31, 2012

BA295-00001 General

Through March 31, 2012

For All Legal Services As Follows:

			Hours	Amount
3/10/2012	CLL	Review agenda materials; message to A. Herbert regarding same; review additional materials on agenda	0.60	114.60
3/15/2012	CLL	Review additional agenda materials; attend commission meeting	4.10	783.10
3/28/2012	CLL	Phone calls to J. Herbert and intraoffice conference regarding waiver of attorney client privilege	0.45	85.95
3/28/2012	PGM	Telephone conference with C LeFevere regarding privilege issue	0.10	19.10
Total Services:			\$	1,002.75

For All Disbursements As Follows:

		Photocopies		0.60
		Postage		0.90
2/16/2012		Charles L. LeFevere; Mileage expense		6.66
3/15/2012		Charles L. LeFevere; Mileage expense		6.66
Total Disbursements:			\$	14.82

Total Services and Disbursements: \$ 1,017.57

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

Bassett Creek Water
Sue Virnig

March 31, 2012

BA295-00009 Stream Bank Stabilization

Through March 31, 2012

For All Legal Services As Follows:

			Hours	Amount
3/27/2012	CLL	Phone call from P. Schutrop regarding contract for channel maintenance funds	0.15	28.65
3/30/2012	CLL	Work on agreement for disbursement of channel maintenance funds for Golden Valley project	0.45	85.95
Total Services:			\$	114.60

Total Services and Disbursements: \$ 114.60

MMKR

CERTIFIED PUBLIC
ACCOUNTANTS

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

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

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

Invoice No. 30704

Date 03/31/2012

Client No. 6355

FOR PROFESSIONAL SERVICES

Progress billing for services completed through 03/31/2012 on audit of financial statements for the year ended 01/31/2012.

\$ 3,600.00

Amy Herbert · Virtual Administrator Services
bcra@barr.com · 952-832-2652

April 30, 2012

Bassett Creek Watershed Management Commission (BCWMC)
Attn: Sue Virnig, Deputy Treasurer
7800 Golden Valley Road
Golden Valley, MN 55427

For contracted services April 1, 2012, through April 30, 2012

Administrative Services to BCWMC

- Organized the April 19th BCWMC packet materials for copying; copied and assembled meeting packets, delivered packets to Barr Engineering mail room for weighing, adding postage, and mailing; posted meeting materials online and e-mailed link to the Commission and TAC.
- Maintained BCWMC files; Communicated with BCWMC attorney, engineers, Deputy Treasurer, Chair, commissioners, and committee members.
- Organized BCWMC monthly invoices; Distributed invoice payments.
- Prepared the April meeting minutes, assembled the March 29th Special Meeting minutes; Communicated with Brian Johnson of the Met Council regarding the volunteers for the BCWMC's 2012 sponsored lakes;
- Created meeting notices for the March 29th BCWMC Special Meeting and the April 5th TAC meeting.

37.25 hours @ \$57.00 per hour \$2,123.25

BCWMC Meetings

Set up and attended the March 15th BCWMC meeting (coordinated room reservations, ordered/ received catering, coordinated agenda, prepared and provided handouts not in meeting packet; recorded meeting)

4.5 hours @ \$57.00 per hour \$256.50

CIP Administrative Services

Coordinated review of invoice from City of Plymouth for reimbursement for work on the Plymouth Creek restoration project and copied request for meeting packet.

0.25 hour @ \$57.00 per hour..... \$14.25

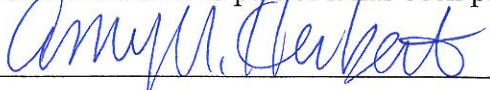
Mileage

Roundtrip mileage between Chanhassen and Golden Valley City Hall for April 19th BCWMC meeting (17.08 miles x 0.555 = \$9.48).....

\$9.48

Subtotal Administrative Services	\$2,389.23
Subtotal CIP Administrative Services	\$14.25
Total Current Billing:	\$2,403.48

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

RECEIVED 4C.

MAY 02 2012

BARR
ENGINEERING CO.



April 27, 2012

Bassett Creek WMC c/o Barr Engineering
Amy Herbert
4700 77th Street, Suite 200
Minneapolis, MN 55435

**Re: 2012 CAMP contract/agreement
Metropolitan Council Contract Number 12R015
Contract Transmittal**

Dear Amy Herbert:

Enclosed, please find two copies of a Contract for Services. Please execute both copies of the Agreement and return them to the attention of:

Kent Johnson
Metropolitan Council
2400 Childs Rd
St. Paul MN 55106

Upon receipt of these documents, we will have the contract executed and return one copy to you along with the Notice to Proceed.

If you have any questions or concerns, please feel free to contact **Brian Johnson** at 651-602-8743.

Sincerely,

A handwritten signature in cursive script that reads 'Micky Gutzmann, CPPO'.

Micky Gutzmann, CPPO
Director, Council Contracts and Procurement

MRG/mlr

Enclosures (2)

cc: Brian Johnson, EQA

n:/esgm/cpu/mces/2012 CAMP contracts/contract transmittal/12R015.doc

**INTERGOVERNMENTAL AGREEMENT BETWEEN THE
METROPOLITAN COUNCIL AND THE
BASSETT CREEK WATERSHED MANAGEMENT COMMISSION**

THIS AGREEMENT is made and entered into by and between the Metropolitan Council (the "Council") and the Bassett Creek Watershed Management Commission (the "Watershed"), each acting by and through its duly authorized officers.

THE ABOVE-NAMED PARTIES hereby agree as follows:

I. GENERAL SCOPE OF AGREEMENT

The Council and the Watershed agree to undertake a volunteer lake sampling study in order to provide an economical method of broadening the water quality database on lakes in the Twin Cities Metropolitan Area.

II. SPECIFIC SCOPE OF SERVICES

2.01 Lake Monitoring Program. The Watershed and the Council agree to jointly undertake a volunteer lake monitoring program as specified below:

a. **General Purposes of Program.** The volunteer lake monitoring program involves the use of citizen volunteers to collect in-lake samples from lakes in the Twin Cities Metropolitan Area. The volunteers will collect surface water samples to be analyzed for total phosphorus (TP), total Kjeldahl nitrogen (TKN), and chlorophyll-a (CLA). In addition, the volunteers will measure surface water temperature, water transparency, and fill out a lake sampling form to help describe the lake and weather conditions at the time of the sampling event. Lakes will be visited biweekly from April through October of 2012 (the "Monitoring Period") for the number of times and at the approximate intervals specified in paragraph (b) below. Each lake will be sampled over the deepest open water location. After each sampling date, the Council will arrange for chemical analysis of the samples either through its own laboratory or an outside laboratory.

b. **Specific Lakes Involved.** The following lakes and specific lake site(s) listed below will be involved in the Council's Citizen-Assisted Lake Monitoring Program (CAMP) in 2012.

Lake name	DNR ID#	Maximum # of sampling dates	Approximate sampling interval	Quantity of new kits
Medicine, site 1	27-0104	14	Biweekly	0
Medicine, site 2	27-0104	14	Biweekly	0
Northwood	27-0627	14	Biweekly	0
Parkers	27-0107	14	Biweekly	0
Sweeney, south site	27-0035-01	14	Biweekly	0
Twin	27-0035-02	14	Biweekly	0
Westwood	27-0711	14	Biweekly	0

2.02 Watershed Responsibilities. The Watershed agrees that it will have sole responsibility for:

- a. Recruiting volunteers (who have access to a boat) to monitor the lakes the Watershed wishes to involve in the program as listed in section 2.01(b) above.
- b. Providing the Council and/or volunteers with needed lake information such as lake bathymetric maps and access locations.
- c. Paying for the laboratory analysis cost of the samples collected by volunteers which cost is included in the amounts specified in Article III below.
- d. Ensuring that the volunteers participate in the training program.
- e. Ensuring that the volunteers fill out sampling forms during each sampling event, and collect and store samples until picked up by a Council representative.

2.03 Council Responsibilities. The Council agrees that it will:

- a. Organize the survey and train volunteers, pick up and deliver samples to the laboratory, and analyze the results of the lake and watershed data collection program.
- b. Prepare a final report containing the physical, chemical, and biological data obtained during the Monitoring Period and a brief analysis of the data.
- c. Provide quality control by collecting lake samples from random lakes involved in the volunteer program. The resulting parameter values will then be compared to determine if any problems exist involving the volunteer's sampling methods and what should be done to correct the problem.

- d. Provide the sample bottles and labels, and filters for chlorophyll filtration.

III. COMPENSATION; METHOD OF PAYMENT

3.01 Payment to Council. For all labor performed and reimbursable expenses incurred by the Council under this agreement during the Monitoring Period, the Watershed agrees to pay the Council the following amounts per lake site listed in section 2.01(b).

Number of Sampling Dates	Payment amount (excludes sampling equipment)
8 to 14	\$550
6 to 7	\$280
1 to 5	\$200

For lake sites requiring sampling equipment, the cost for a kit of sampling equipment is \$150 per kit.

3.02 Payment Schedule. Payment of the total amount owing to the Council by the Watershed shall be made within 30 days following the end of the Monitoring Period. An invoice specifying the amount owed by the Watershed will be sent under separate cover.

3.03 Additional Analyses. The total amount specified in the previous paragraph does not include the cost of any additional analyses requested by the Watershed, such as analysis of bottom samples. The Council will carry out any such additional analyses at the request of the Watershed and subject to the availability of Council resources for carrying out such analyses. The Council will bill the Watershed after the end of the Monitoring Period for any such additional analyses at the Council's actual cost, and the Watershed will promptly reimburse the Council for any such costs billed.

IV. GENERAL CONDITIONS

4.01 Period of Performance. The services of the Council will commence on April 1, 2012, and will terminate on December 31, 2012, or following work completion and payment, whichever occurs first.

4.02 Amendments. The terms of this agreement may be changed only by mutual agreement of the parties. Such changes will be effective only on the execution of written amendment(s) signed by duly authorized officers of the parties to this agreement.

4.03 Watershed Personnel. Amy Herbert, or such other person as may be designated in writing by the Watershed, will serve as the Watershed's representative and will assume primary responsibility for coordinating all services with the Council.

4.04 Council's Contract Manager. The Council's Contract Manager for purposes of administration of this agreement is Kent Johnson, or such other person as may be designated in writing by the Council's Regional Administrator. The Council's Contract Manager will be responsible for coordinating services under this agreement. However, nothing in this agreement will be deemed to authorize the Contract Manager to execute amendments to this agreement on behalf of the Council.

4.05 Equal Employment Opportunity; Affirmative Action. The Council and the Watershed agree to comply with all applicable laws relating to nondiscrimination and affirmative action. In particular, the Council and the Watershed agree not to discriminate against any employee, applicant for employment, or participant in this study because of race, color, creed, religion, national origin, sex, marital status, status with regard to public assistance, membership or activity in a local commission, disability, sexual orientation, or age; and further agree to take action to assure that applicants and employees are treated equally with respect to all aspects of employment, including rates of pay, selection for training, and other forms of compensation.

4.06 Liability. Each party to this agreement shall be liable for the acts and omissions of itself and its officers, employees, and agents, to the extent authorized by law. Neither party shall be liable for the acts or omissions of the other party or the other party's officers, employees or agents. Nothing in this agreement shall be deemed to be a waiver by either party of any applicable immunities or limits of liability including, without limitation, Minnesota Statutes, sections 3.736 (State Tort Claims) and chapter 466 (Municipal Tort Claims).

4.07 Copyright. No reports or documents produced in whole or in part under this agreement will be the subject of an application for copyright by or on behalf of the Council or Watershed.

4.08 Termination of Agreement. The Council and the Watershed will both have the right to terminate this agreement at any time and for any reason by submitting written notice of the intention to do so to the other party at least thirty (30) days prior to the specified effective date of such termination. In the event of such termination, the Council shall retain a pro-rata portion of the amounts provided for in Article III, based on the number of sampling events occurring for each lake before termination versus the total sampling events specified for each lake. The balance of the amounts will be refunded by the Council to the watershed.

IN WITNESS WHEREOF, the parties have caused this agreement to be executed by their duly authorized representatives on the dates set forth below. This agreement is effective upon final execution by, and delivery to, both parties.

WATERSHED MANAGEMENT ORG

Date _____

By _____

Name _____

Its _____

METROPOLITAN COUNCIL

Date _____

By _____

Name _____

EMA Section Manager

**AGREEMENT FOR CHANNEL MAINTENANCE – 2012
CITY OF GOLDEN VALLEY**

This Agreement is made this 17th day of May, 2012, by and between the Bassett Creek Watershed Management Commission, a Minnesota joint powers organization (“Commission”) and the City of Golden Valley, Minnesota, a Minnesota municipal corporation (“City”);

WITNESSETH:

WHEREAS, the Commission has established a program to work in cooperation with member cities to fund channel maintenance projects; and

WHEREAS, the City has applied to the Commission for funds for a channel maintenance project in the City, a description of which is attached as Attachment One, which is made a part of this Agreement (the “Project”); and

WHEREAS, the Commission is willing to provide funding for the City’s Project in accordance with the terms and conditions hereinafter set forth.

NOW THEREFORE, on the basis of the premises and the mutual covenants hereinafter set forth, the parties hereto agree as follows:

1. The City will undertake the work of the Project as described in Attachment One. The City may request a change in the Project, which may be authorized, in writing, by the Commission’s Engineer.

2. The plans for the Project shall be reviewed by the Commission’s Engineer, who may approve or require modifications to the Plans. Project design, construction and maintenance will conform to all conditions of approval imposed by the Commission.

3. The City shall require that engineers, architects and contractors for the work of each part of the Project have liability insurance in the amount of current statutory limits specified in Minnesota Statutes, Chapter 466, and that the Commission and the Commission's Engineer are named as additional insureds on such policies. Before commencing construction of the Project, the City shall provide to the Commission a Certificate of Insurance demonstrating compliance with this requirement. The Certificate shall provide that the insurance may not be cancelled without thirty (30) days prior notice to the additional named insureds.
4. The City shall undertake, or cause to be undertaken, the Project in accordance with the approved plans. Contracts will be awarded by the City in accordance with all applicable public bidding and contracting requirements.
5. The City shall be responsible for securing, or causing to be secured, all necessary permits for the work of the Project.
6. Upon completion of the work of the Project, the City shall secure record drawings, with a certification by the design engineer or architect that the work was completed according to record drawings. A copy of the certification shall be forwarded to the Commission's Engineer.
7. The City will submit invoices to the Commission, no more frequently than monthly for partial reimbursement for the work of the Project. Reimbursable expenses include out-of-pocket costs incurred for construction, and costs of design, engineering, and contract administration. Reimbursement will be made subject to the following limitations:
 - a) Total reimbursement for the work of the Project will not exceed \$100,000.
 - b) Reimbursement will be made from that part of the Commission's Creek and Streambank Trunk System Maintenance, Repair and Sediment Removal Fund (the "Channel Maintenance Fund") allocated to channel maintenance in the City. If the

cost of the Project exceeds \$100,000, the City may apply to the Commission for additional reimbursement from funds allocated to the City in the Channel Maintenance Fund.

8. Claims by the City for reimbursement shall be accompanied by such proof of expenses as may reasonably be requested by the Commission, and the books and records of the City shall be available for inspection by the Commission upon reasonable notice during normal business hours. If the City will seek reimbursement for design, engineering and contract administration by City staff, it will maintain and provide to the Commission detailed time records showing daily records of time spent, description of activity, staff personnel involved and rate of total compensation. Hourly rates charged will include pro-rated salary and fringe benefits in accordance with the schedule of rates attached to this Agreement as Attachment Two, which rates are subject to annual adjustment commensurate with changes in City costs of salary and benefits.
9. The Commission shall reimburse the City for eligible expenses in accordance with this Agreement within 45 days of receipt of an invoice therefor.
10. This Agreement will terminate on the third anniversary of the date of this Agreement unless extended by mutual agreement of the City and the Commission. The Commission will have no obligation to reimburse claims not submitted prior to the termination date.
11. The parties agree that the Commission's participation in the Project is limited to the payment of channel maintenance grant funds in accordance with this Agreement. This Agreement does not make the Commission a partner, agent or co-venturer in the City's Project and the Commission will incur no responsibility or liability for the work of the City's Project.

BASSETT CREEK WATER
MANAGEMENT COMMISSION

By: _____
Ginny Black, Chair

And by: _____
Ted Hoshal, Secretary

CITY OF GOLDEN VALLEY

By: _____
Shepard M. Harris, Mayor

And by: _____
Thomas D. Burt, City Manager

ATTACHMENT ONE

5. NEW BUSINESS

A. Requests by the Association of Medicine Lake Area Citizens (AMLAC)

- i. **BCWMC to Create a Document about the Medicine Lake Dam and Lake Level.** Chair Loomis reported that the Commission received a request from the Association of Medicine Lake Area Citizens to create a document about the Medicine Lake Dam and lake level. Ms. Chandler said that a document had previously been prepared by the Commission Engineer on this topic and Len Kremer had delivered a presentation about it. Ms. Chandler wondered if AMLAC was just interested in having all of that historic information combined into one document or if AMLAC is interested in something else. She commented that if the request is to create a document using the existing information and addressing just a few new questions then the Commission Engineer estimates that the work could be done for \$5,000. Commissioner Hoshal said he thought that AMLAC wanted the information in one document so that AMLAC could deliver the information to its residents in response to their questions.

Commissioner Elder asked if there was a way that AMLAC would cost share for the work. Ms. Clancy remarked that the City of Golden Valley's understanding has been that when the Commission Engineer is asked for work products that are for a specific city or a specific city's organization then that city is solely responsible for the costs of that work. Acting Commissioner Johnson asked if the Commission had a budget for the item. The Commission noted that it didn't have this type of work budgeted.

Acting Commissioner Goddard suggested that the Commission put the issue back to AMLAC and ask if it is interested in having this work be done at AMLAC's expense and if so, then to provide more specifics on what information it wants; otherwise the Cities of Plymouth and Medicine Lake could possibly provide the information.

Mr. Asche commented that AMLAC's request reads like a scope of services for a feasibility document. He said perhaps AMLAC would want to touch base with Minnehaha Creek Watershed District to find out what was involved with the Gray's Bay dam. Acting Commissioner Johnson recommended no action on this item and suggested that she or Commissioner Hoshal communicate with them that there were questions about what AMLAC was requesting and then perhaps the cities can work with AMLAC to provide the information that is already available.

Chair Loomis asked if the Commission wanted to take no action or wanted to table the agenda item until the February BCWMC meeting. The Commission concurred that it would table the item until the February meeting.

- ii. **BCWMC Participation in a 7 p.m. February 8th meeting on Aquatic Invasive Species.** See discussion under agenda item 4J.

B. TAC Recommendations

- i. **Review of Channel Maintenance Fund Applications for 2012 Projects.** Mr. Asche noted that the TAC reviewed a request from the City of Golden Valley for \$100,000 in Channel Maintenance funds for a 2012 stream bank restoration on the Bassett Creek Main Stem Reach 1, subreach 2. He said that Golden Valley has just over \$144,000 available to it in BCWMC Channel Maintenance funds. Mr. Asche reported that the TAC recommends that the

Commission approve the City of Golden Valley's request for Channel Maintenance funds in the amount of \$100,000. Commissioner Langsdorf moved to approve the proposal by the City of Golden Valley for the use of \$100,000 from the BCWMC Channel Maintenance Fund for its 2012 Main Stem restoration project. Commissioner de Lambert seconded the motion. The motion carried unanimously with eight votes in favor [City of Robbinsdale absent from vote].

- ii. **Next Generation Plan Issue Identification.** Mr. Asche said that the TAC discussed the responses to the four questionnaires about issue identification. He said that the TAC recommends that the next step would be for all of the issue identification feedback to be assembled and brought to the Commission for its review, feedback, and addition of other issues at the February Commission meeting. Mr. Asche said that the TAC also recommends that the Commission discuss the Next Generation Plan planning process and communicate on how the process will happen. Chair Loomis said that the Next Generation Plan issues will be on the February meeting and as part of that discussion the Commission can decide how it wants to proceed with the process and if it wants to call for a work session apart from a regular Commission meeting to work on the Plan.
- iii. **Preparation of Feasibility Study for the 2013 CIP Project NL-2 (Wetland dredging adjacent to the Four Seasons Mall site).** Mr. Asche said that this project is in the Commission's CIP as a water quality improvement project for Northwood Lake. He said that the *Watershed Management Plan* identifies the project as a pond dredging project that has the potential to reduce 73 pounds of phosphorous annually from draining into Northwood Lake as well as 14% of the total loading going into Northwood Lake. Mr. Asche described the complexities of the project due to the unknowns of the adjacent project, which is the redevelopment of the Four Seasons Mall site.

Mr. Asche summarized that the idea for the feasibility of this project is to broaden the scope of it and include other things besides the pond dredging that would contribute to the water quality improvement goal of an annual 73 pound reduction in phosphorus and 14% total loading draining into Northwood Lake. He noted some of the potential projects that could achieve the reductions and said that this feasibility report would focus on the various combinations of projects that could be undertaken to meet the goals.

Mr. Asche noted that the TAC discussed at some length the benefit to having the information from the P8 and XP-SWMM models that the Commission approved in its 2012 budget but hasn't yet moved ahead to order the work. He said that the TAC recommends that the Commission direct Barr Engineering to update both of those models and to start the updates with the Northwood Lake watershed. Mr. Asche said that he could prepare the scope of services for the feasibility study. He said that the TAC recommends that the Commission move forward with directing the feasibility study be prepared.

Ms. Chandler noted that the first part of the study could be a presentation of the different options but the report needs to end with a recommendation otherwise the Commission would not have what it needs to order the project. Ms. Chandler stated that the Commission Engineer believes that this project would require a minor plan amendment and also that the Commission would need a do-not-exceed number for its tax levy by the Commission's June meeting.

The Commission discussed the potential cost of the feasibility study. Mr. Asche said that he believes it would cost at least \$50,000.



March 28, 2012

Jeannine Clancy
Director of Public Works
City of Golden Valley
7800 Golden Valley Road
Golden Valley, MN 55427

**Re: Bassett Creek Restoration: Wisconsin Avenue to Crystal Border (CIP-2011 CR)
BCWMC #2011-22**

Dear Ms. Clancy:

The Bassett Creek Watershed Management Commission (BCWMC) reviewed construction drawings for the referenced project. The project is located along Bassett Creek from Wisconsin Avenue to 10th Avenue and from Duluth Street to Kentley Avenue. The project includes repairing erosion and stabilizing the streambank. Previous review letters were dated November 10, 2011 and February 18, 2012. The BCWMC conditionally approved the plans at its March 15, 2012 meeting contingent on the following comments:

1. Placement of riprap must not result in a decrease of channel cross section.
2. Design of outlets should be in accordance to BCWMC requirements to address high outlet velocities (Initial Comment 15: see paragraph 8b in the document "Requirements for Improvement and Development Proposals).
3. We recommend increasing the sump depth to four feet for improved performance. Sump manholes must be maintained and inspected at least twice a year. We also recommend the city consider installing SAFL Baffles at each sump for increased treatment efficiency.
4. Vegetated and bioengineering solutions shall be incorporated wherever appropriate and feasible.

The drawings (Sheets 1 – 25) reviewed by the BCWMC were dated February 27, 2012. If you have questions, please contact Jeff Weiss or me at 952-832-2600.

Sincerely,

A handwritten signature in black ink that reads "James P. Herbert".

James P. Herbert, P.E.
Barr Engineering Co.
Engineers for the Bassett Creek Watershed Management Commission

c: Kate Drewry, DNR
Jeff Oliver, City of Golden Valley
Eric Eckman, City of Golden Valley
Pete Willenbring, WSB & Associates, Inc.
Erick Francis, WSB & Associates, Inc.

DATE	11/17/2012	BY	W.S.B.
REVISION	11/17/2012	BY	W.S.B.
DESCRIPTION	11/17/2012	BY	W.S.B.
DATE	11/17/2012	BY	W.S.B.

DATE	04/11/2012	BY	W.S.B.
REVISION	04/11/2012	BY	W.S.B.
DESCRIPTION	04/11/2012	BY	W.S.B.
DATE	04/11/2012	BY	W.S.B.

GOLDEN VALLEY, MINNESOTA
RESTORATION PROJECT
2012 BASSETT CREEK

WSB
 1701 Maple Avenue South, Suite 200
 Minneapolis, MN 55425
 Phone: 612.338.1111
 Fax: 612.338.1112
 www.wsbinc.com

DESCRIPTION OF PROPOSED IMPROVEMENTS

THE TECHNIQUES DISCUSSED BELOW ARE COMMONLY USED IN STREAMBANK RESTORATION. THEY WERE INCLUDED IN THE DESIGN FOR THE PROJECT WITH THE EXPECTATION THAT MOST CONTRACTORS HAVE HAD EXPERIENCE WITH THESE TECHNIQUES AND UNDERSTAND HOW TO INSTALL THEM. THIS DESIGN INCORPORATES THE MOST APPROPRIATE MEASURES TO USE AT EACH INDIVIDUAL SITE IN ORDER TO MEET THE STABILIZATION OBJECTIVES. THE FINAL SIZE, DEPTH, AND LOCATION OF THESE BMPs SHALL BE SHAPED IN THE FIELD BY THE PROJECT AND FIELD ENGINEER DURING CONSTRUCTION.

SLOPE PREPARATION
 THIS WORK CONSISTS OF FINISHING THE CONTOURS OF THE MAINTENANCE AREAS TO ACHIEVE SLOPES AS SHOWN ON THE PLANS. SLOPE PREPARATION WORK ON THIS PROJECT WILL BE BASED ON THE SLOPE STABILIZATION METHOD. IT IS RECOMMENDED THAT THE CONTRACTOR BE INCLUDED IN THE BIDDING PROCESS FOR EACH OF THE STABILIZATION PRACTICES.

FIELDSTONE BOULDER STABILIZATION
 FIELDSTONE BOULDER STABILIZATION, OR FIELDSTONE BOULDERS, ARE USED TO PROTECT THE TOE OF THE STREAM BANK. IN STREAMS WITH A CHANNEL WIDTH OF 10 FEET OR LESS, ROCKS ARE PLACED TO PROTECT A ONE FOOT THICK LAYER OF CHANNEL BED. IN CHANNELS GREATER THAN 10 FEET, ROCKS ARE PLACED TO PROTECT THE TOE OF THE BANK. ROCKS SHOULD NOT EXCEED PAST THE TOP OF BANK. THE EXACT LOCATION AND ELEVATION OF THE BOULDER TOE WILL BE STAKED IN THE FIELD BY THE ENGINEER (SEE DETAIL). PLACEMENT OF FIELDSTONE BOULDERS MUST NOT RESULT IN A DECREASE OF CHANNEL CROSS SECTION.

FIELDSTONE RIP RAP STABILIZATION
 FIELDSTONE RIP RAP STABILIZATION, OR FIELDSTONE RIP RAP, IS USED TO PROTECT THE TOE OF THE STREAM BANK. IN STREAMS WITH A CHANNEL WIDTH OF 10 FEET OR LESS, RIP RAP CONSISTS OF CORREL-SIZED ROCK (12 INCHES TO 18 INCHES IN DIAMETER). THE RIP RAP IS KEPT IN TO THE STREAMBED AND EXTENDS UP THE RESHAPED SLOPE AND CANNOT EXTEND PAST THE TOP OF BANK. THE EXACT LOCATION AND ELEVATION OF THE RIP RAP TOE WILL BE STAKED IN THE FIELD BY THE ENGINEER. HAND PLACEMENT OF FIELDSTONE RIP RAP WILL BE REQUIRED AND WILL BE DIRECTED BY THE ENGINEER (SEE DETAIL). PLACEMENT OF FIELDSTONE RIP RAP MUST NOT RESULT IN A DECREASE OF CHANNEL CROSS SECTION.

CROSS VANES
 CROSS VANES (OR CONSTRUCTED RIFLES) ARE DROF STRUCTURES, WHICH ARE TYPICALLY CONSTRUCTED OF BOULDERS AND ROCKS TO FLATTEN THE SLOPE OF THE CHANNEL AND REDUCE THE VELOCITY OF THE FLOW IN THE CHANNEL. CROSS VANES EXTEND ACROSS THE CREEK BOTTOM, AND ARE EMBEDDED (FIVE FEET) IN EACH BANK. CROSS VANES DIRECT THE MAIN FLOW TO THE CENTER OF THE STREAM TO REDUCE BANK EROSION (SEE DETAIL).

ROCK VANES
 ROCK VANES, OR V-ANES, ARE CONSTRUCTED OF BOULDERS EMBEDDED INTO THE CREEK BOTTOM. THE VANES ARE EMBEDDED (FIVE FEET) IN THE STREAM BANK AND ARE ORIENTED UPSTREAM (90 TO 30 DEGREES) TO DIRECT THE FLOW AWAY FROM THAT BANK. V-ANES TYPICALLY OCCUPY NO MORE THAN ONE-THIRD OF THE CHANNEL WIDTH (SEE DETAIL).

LIVE STAKES
 LIVE STAKES ARE DORMANT STEM CUTTINGS, TYPICALLY WILLOW AND DOGWOOD SPECIES. THEY ARE COLLECTED AND INSTALLED DURING THE DORMANT SEASON AND GROW NEW ROOTS AND LEAVES, QUICKLY REVEGETATING A STREAM BANK. MATERIALS SHOULD BE CUT AND PLACED IN A CONTAINER OF WATER TO BE TRANSPORTED TO THE SITE AND KEPT IN WATER UNTIL INSTALLED. TAPE THE CUTTING WITH THE END GOING INTO THE GROUND AT RIGHT ANGLES TO THE SLOPE FACE. 2/3 - 3/4 OF THEIR LENGTH. CARE SHALL BE TAKEN NOT TO SPLIT THE ENDS OR DAMAGE THE BARK OF THE CUTTINGS. THE ENGINEER SHALL STAKE THE LOCATION OF LIVE STAKES IN THE FIELD (SEE DETAIL).

CLEARING AND GRUBBING NOTE
 THE ENGINEER WILL DESIGNATE TREES, BRUSH, AND OTHER VEGETATION THAT ARE TO BE PRESERVED AND THOSE THAT ARE TO BE REMOVED FOR ACCESS TO THE MAINTENANCE AREAS. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE TREES, BRUSH, STUMPS, AND ROOTS FROM THE LIMITS DESIGNATED FOR CLEARING AND GRUBBING.

STABILIZATION NOTE:
 FIELDSTONE BOULDER STABILIZATION IS THE BASE BID STABILIZATION PRACTICE FOR THIS PROJECT AND WILL BE INSTALLED AT THE SPECIFIC LOCATION AND HEIGHT FOR EACH REACH OF THE PROJECT AS SHOWN ON THE PLAN SET. ESTIMATED QUANTITIES FOR FIELDSTONE BOULDER STABILIZATION AND FILTER MATERIAL ARE IDENTIFIED ON THE PLAN SET FOR EACH REACH OF THE PROJECT. FINAL QUANTITIES FOR FIELDSTONE BOULDER STABILIZATION PRACTICE WILL BE BASED ON FIELD STAKING AND WILL BE AGREED UPON BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING WORK WITHIN EACH REACH.

FIELDSTONE RIP RAP STABILIZATION WILL BE BID AS AN ALTERNATE STABILIZATION PRACTICE FOR THIS PROJECT AND WILL BE INSTALLED AT THE SPECIFIC LOCATION AND HEIGHT CONSISTENT WITH THE PLAN SET. ESTIMATED QUANTITIES FOR FIELDSTONE RIP RAP AND FILTER MATERIAL ARE IDENTIFIED ON THE ALTERNATE BID TABULATION. FINAL QUANTITIES FOR FIELDSTONE RIP RAP AND FILTER MATERIAL WILL BE BASED ON FIELD STAKING AND WILL BE AGREED UPON BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING WORK WITHIN EACH REACH.

UTILITY COORDINATION AND CONFLICT:
 UTILITY LOCATE INFORMATION IS LOCATED IN AN APPENDIX OF THE SPECIFICATIONS AND NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL SCHEDULE OR REDIRECT HIS/HER WORK TO ENSURE THAT UTILITY COMPANY RELOCATES, INSTALLATIONS AND/OR REMOVALS DO NOT IMPERE PROGRESS OF THE PROJECT. THE CONTRACTOR SHALL ALSO COORDINATE ALL UNANTICIPATED UTILITY RELOCATIONS OR ADJUSTMENTS DETERMINED TO BE NECESSARY TO COMPLETE THE WORK. NO CLAIMS FOR EXTRA COMPENSATION OR ADJUSTMENTS TO PERFORMANCE SHALL BE MADE FOR ANY WORK DUE TO CONFLICTS WITH IN-PLACE UTILITIES SHALL BE CONSIDERED.

SPECIAL NOTE

THE PLANS OUTLINED HEREIN GENERALLY DESCRIBE THE PROPOSED IMPROVEMENTS FOR THE 2012 BASSETT CREEK RESTORATION PROJECT. AS PART OF CONSTRUCTION FOR THESE PROPOSED IMPROVEMENTS, THE CONTRACTOR IS EXPECTED TO WORK CLOSELY, IN THE FIELD, WITH THE OWNERS REPRESENTATIVE REGARDING THE FINAL EXTENT AND LOCATION TO WHICH THE PROPOSED IMPROVEMENTS ARE INSTALLED. THIS COORDINATION SHOULD BE INCLUDED WITH THE UNIT BID PRICES.

RECOMMENDED CONSTRUCTION SEQUENCE

1. PROVIDE TRAFFIC CONTROL SIGNS AS NEEDED
2. INSTALL SILT CURTAIN AND OTHER SEDIMENT CONTROLS
3. CLEAR AND GRUB TREES AS MARKED IN THE FIELD AND AS DIRECTED BY ENGINEER
4. SHAPE AND GRADE CHANNEL BANKS TO PROPOSED TYPICAL SECTION (3:1 SLOPES MAX FROM EXISTING TOE OF BANK)
5. INSTALL FILTER AGGREGATE
6. INSTALL CROSS VANES AND/OR ROCK VANES (SEE DETAIL)
7. INSTALL STONE OR BOULDERS AS DIRECTED BY ENGINEER (SEE DETAIL)
8. INSTALL CATEGORY 1 EROSION CONTROL BLANKET (ON SLOPES STEEPER THAN 4:1) OR STRAW MULCH OVER DISTURBED AREAS
9. REMOVE SILT CURTAIN, OTHER SEDIMENT CONTROLS AND ANY MISCELLANEOUS DEBRIS THAT WAS REMOVED FROM THE CHANNEL.

GENERAL CONSTRUCTION NOTES

1. EROSION CONTROL BLANKET SHALL BE MINIMUM CATEGORY 4 OR OTHERWISE AS SPECIFIED.
2. SEED BED SHALL BE PREPARED WITH A MINIMUM OF 4 INCHES OF TOPSOIL WITH NO EXTRANEOUS MATERIAL OVER 1/4 INCHES ON THE SURFACE.
3. ALL DISTURBED AREAS MUST BE TEMPORARILY STABILIZED WITHIN 48 HOURS OF INACTIVITY.
4. CONTRACTOR IS RESPONSIBLE FOR LOCKING ALL LOGS OR LARGER MATERIALS PRIOR TO WORK.
5. TREES REMOVED THAT ARE NOT MARKED SHALL BE REPLACED IN KIND AT CONTRACTORS EXPENSE.
6. EXISTING FACILITY SITE FEATURES SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE THAT OCCURS TO EXISTING FACILITIES.
7. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL BMPs PRIOR TO COMMENCEMENT OF GRADING.
8. ALL GROUND DISTURBANCE GENERATED BY GRADING ACTIVITIES SHALL BE STABILIZED AND RESTORED BY FINISH GRADING WITH TOPSOIL, APPLYING NATIVE SEED COVER CROP AND EROSION CONTROL BLANKET INCLUDING ACCESS ROUTES AND STOCKPILE.
9. VEGETATIVE AND BIOENGINEERING SOLUTIONS SHALL BE INCORPORATED WHEREVER APPROPRIATE AND FEASIBLE.

SEEDING SPECIFICATIONS:

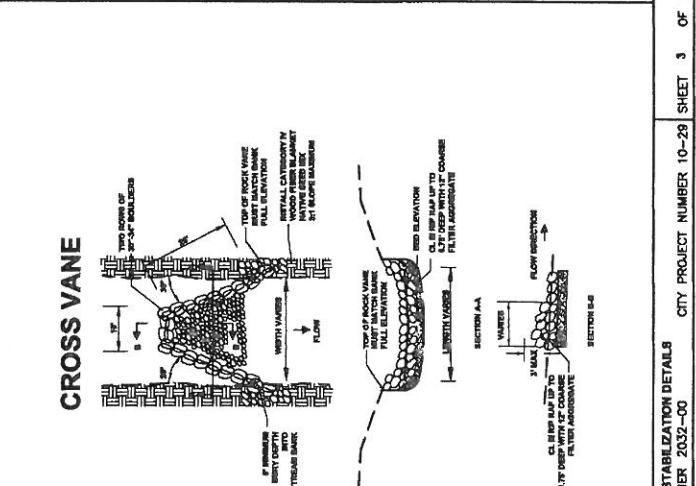
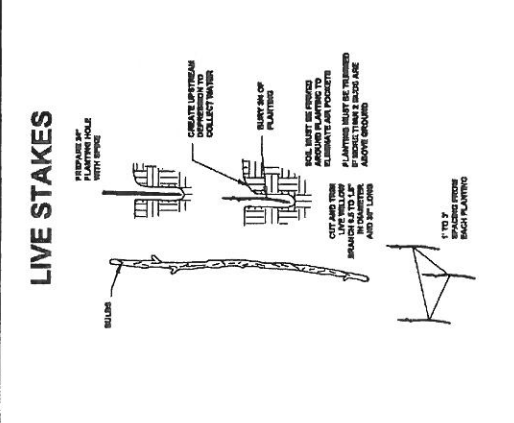
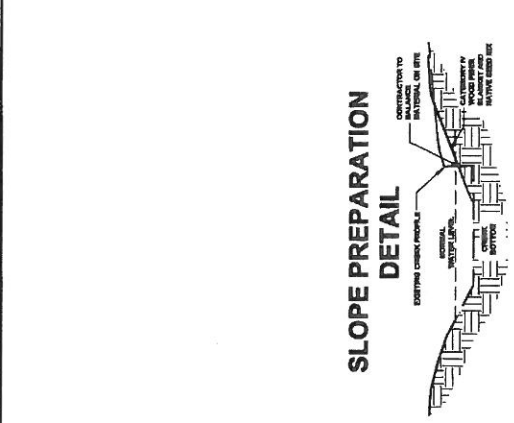
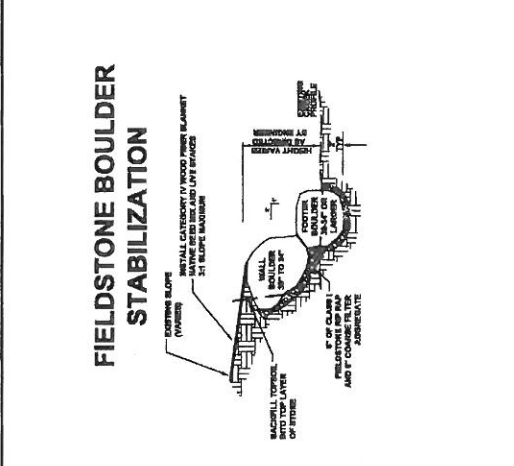
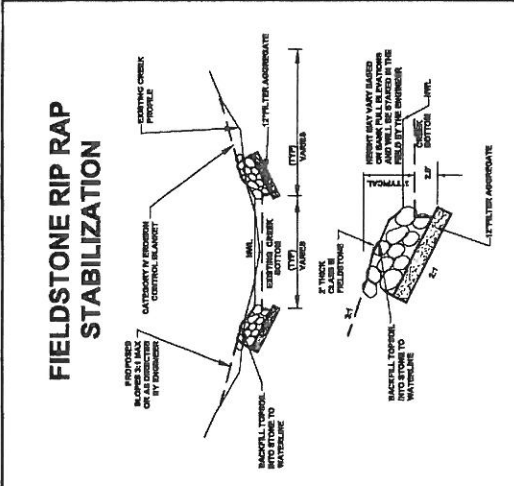
SEEDING NATIVE GRASSES
 RESTORED AND DISTURBED AREAS ALONG BASSETT CREEK WILL BE REESTABLISHED WITH THE FOLLOWING:

- * SEED MIX(S) PRAIRIE RESTORATION INC. (PRI) SHORELINE GRASS MIX OR SAVANNA GRASS MIX TO BE APPLIED AT @ 20 LBS/AC.
- ** THE PRI SHORELINE SEED MIX IS A SHADE TOLERANT MIX THAT IS ABLE TO WITHSTAND INUNDATION FOR SEVERAL DAYS. THE PRI SHORELINE SEED MIX WILL BE USED ALONG THE DISTURBED SLOPES OF BASSETT CREEK FROM THE TOP OF SLOPE, TO BE STAKED IN THE FIELD. APPROXIMATE 10 TEAR STAGE RELAYMENT TO THE TOP OF SLOPE, TO BE STAKED IN THE FIELD.

- ** THE PRI SAVANNA SEED MIX IS A SHADE TOLERANT MIX THAT IS SUITABLE FOR UPLAND AREAS. THE PRI SAVANNA SEED MIX WILL BE USED ALONG THE DISTURBED SLOPES OF BASSETT CREEK FROM THE APPROXIMATE 10 TEAR STAGE RELAYMENT TO THE TOP OF SLOPE, TO BE STAKED IN THE FIELD.
- ** THE PLACEMENT OF THESE SEED MIXES WILL BE DIRECTED BY THE ENGINEER IN THE FIELD.
- * ADDITIONAL TEMPORARY SEED: ADDITIONAL OATS OR WINTER WHEAT SHALL BE MIXED INTO THE MIXES @ 30 LBS/AC TO PROVIDE A FAST-GROWING VEGETATIVE COVER.

SOIL STABILIZATION REQUIREMENTS FOR SEEDING NATIVE GRASSES:

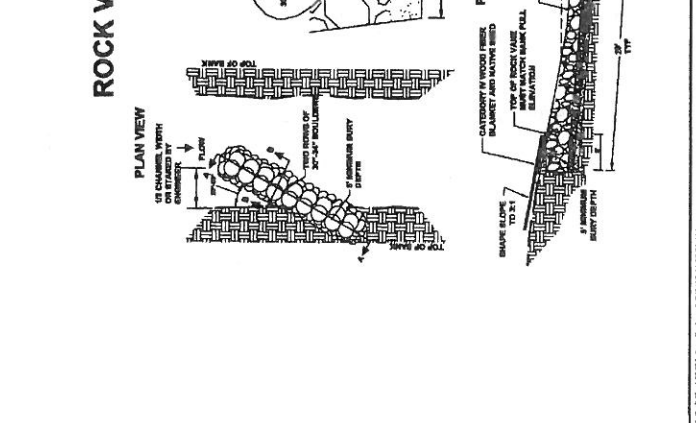
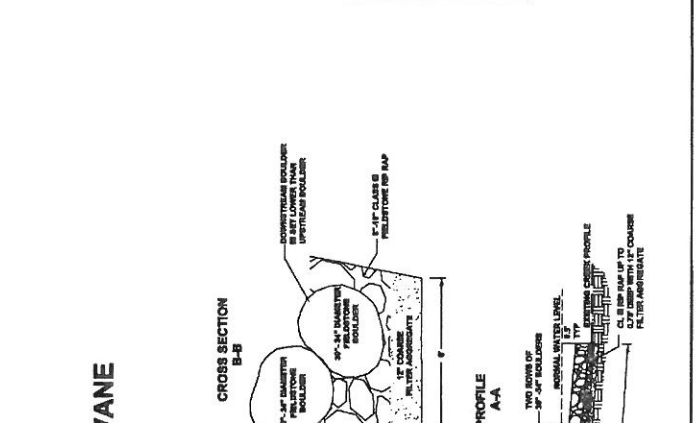
- * STRAW MULCH @ 2 TON/AC (SLOPES LESS THAN 4:1)
 - * BLANKET MNDOT TYPE IV FOR SLOPES GREATER THAN 4:1
 - * THE PLACEMENT OF SOIL STABILIZATION MEASURES WILL BE DIRECTED BY THE ENGINEER IN THE FIELD.
- TURF ESTABLISHMENT**
 AREAS DISTURBED DURING CONSTRUCTION THAT ARE NOT IMMEDIATELY ADJACENT TO BASSETT CREEK OR IN NON-MAINTAINED AREAS SHALL BE REESTABLISHED WITH THE FOLLOWING:
- * SEED MIX MNDOT 260 @ 100 LBS/AC
 - * FERTILIZER MNDOT TYPE 2 @ 200 LBS/AC
 - * STRAW MULCH @ 2 TON/AC AND DISC ANCHORED MULCH (SLOPES LESS THAN 4:1)
 - * BLANKET MNDOT TYPE IV FOR SLOPES GREATER THAN 4:1
 - * AREAS REQUIRING TURF ESTABLISHMENT WILL BE DIRECTED BY THE ENGINEER IN THE FIELD AND INCLUDE EITHER TYPE I MULCH MATERIAL OR CATEGORY 3 EROSION CONTROL BLANKET.



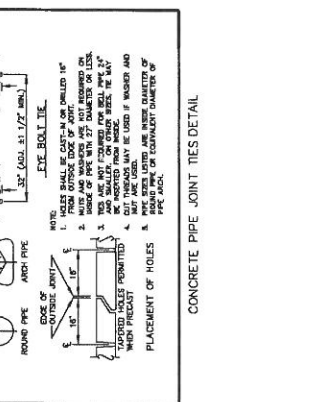
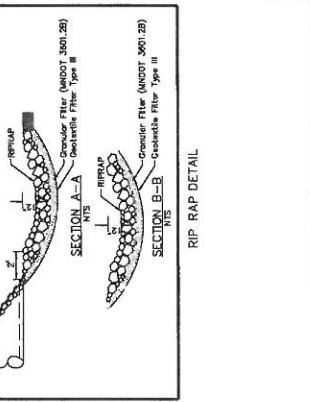
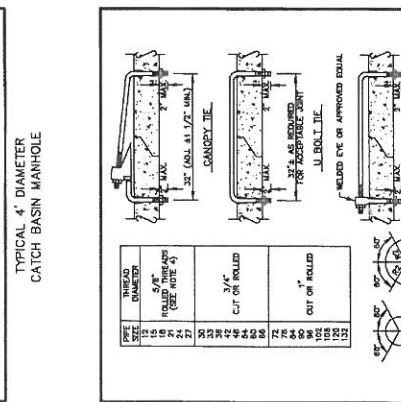
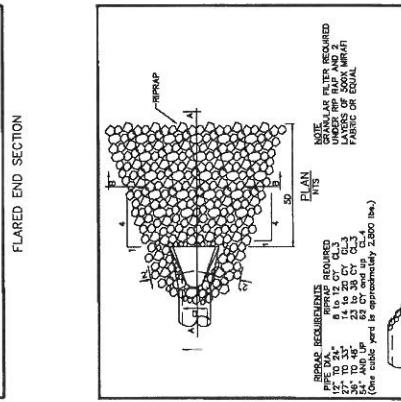
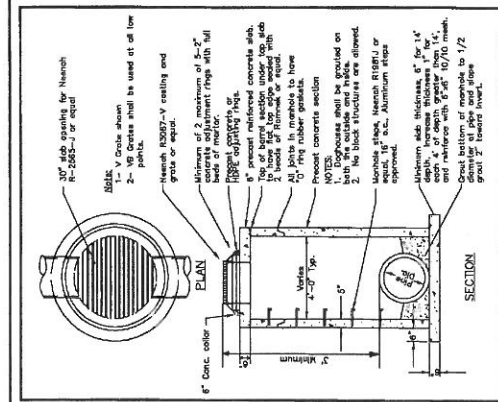
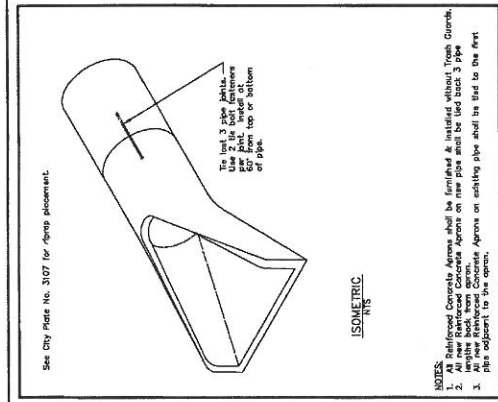
Proposed Improvement Elevations for the 2012 Bassett Creek Restoration Project City of Golden Valley

Creek Stationing	Proposed Improvement	Aggregations Top of Back Elevation (ft)	Proposed Top of Vane Elevation (ft)
188+50	Rock Vane	863.0	873.50
189+00	Rock Vane	863.0	873.50
189+50	Rock Vane	863.0	873.50
190+00	Rock Vane	863.0	873.50
190+50	Rock Vane	863.0	873.50
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249+50	Rock Vane	863.0	873.50
250+00	Rock Vane	863.0	873.50
250+50	Rock Vane	863.0	873.50

* Top of bank is the elevation that if exceeded within this reach, will result in water spilling beyond the limits of the defined channel and into the flood plain. This is observed to occur during events having a one to two year return frequency. Please be advised that the specific quantities and location for the installation of each proposed Vane will be measured and staked in the field.

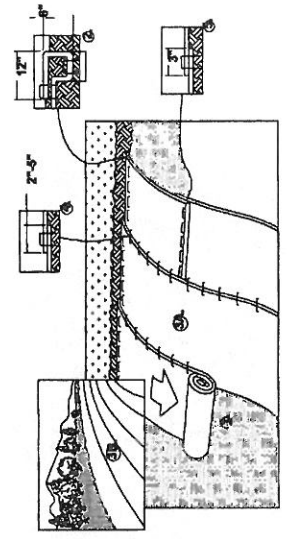


NO.	DATE	BY	CHKD.	DESCRIPTION
1	04/11/2012	WSP	WSP	ISSUED FOR PERMIT
2	04/11/2012	WSP	WSP	REVISED PER COMMENTS
3	04/11/2012	WSP	WSP	REVISED PER COMMENTS
4	04/11/2012	WSP	WSP	REVISED PER COMMENTS
5	04/11/2012	WSP	WSP	REVISED PER COMMENTS



DATE	04/11/2012	BY	W. J. M. / J. M. M.
REVISION		NO.	
DATE	03-23-00	BY	W. J. M. / J. M. M.
REVISION		NO.	
DATE	01/27/01	BY	W. J. M. / J. M. M.
REVISION		NO.	
DATE	01/10/01	BY	W. J. M. / J. M. M.
REVISION		NO.	

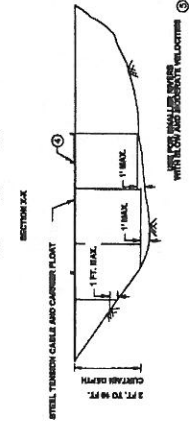
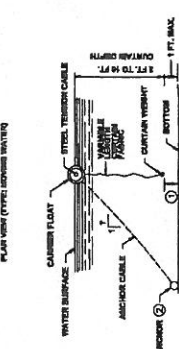
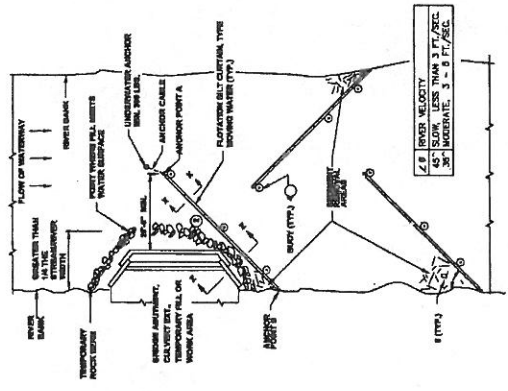
EROSION CONTROL BLANKET INSTALLATION DETAIL



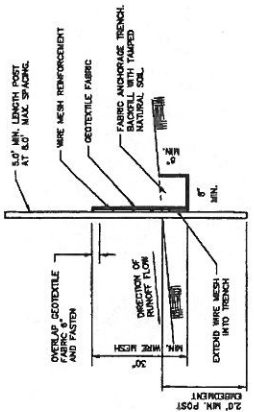
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 12" (30cm) OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.6cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

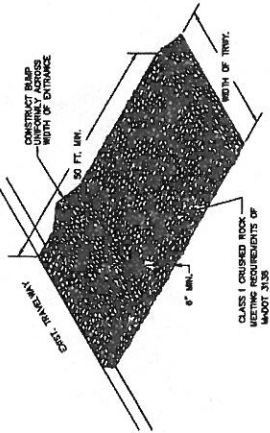
FLOATING SILT CURTAIN DETAIL



SILT FENCE



ROCK CONSTRUCTION ENTRANCE



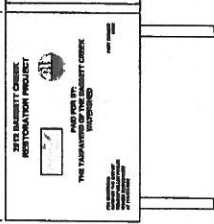
SEAM MUST BE INSTALLED AT EACH AREA PRIOR TO CONSTRUCTION BEGINS

ACTUAL LOCATION OF SEAM WILL BE STAKED IN THE FIELD

SEAMS MUST MARK THE ENTRANCE TO EACH MAINTENANCE AREA

ADDITIONAL SEAMS MAY BE RELOCATED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER

PROJECT SIGNAGE





**2012 Bassett Creek
Restoration Project
City of Golden Valley
Minnesota**

**Area B-1 & B-2
Station 76+00
thru 82+00**

Legend

- Construction Limits
- Proposed Access Route
- 3 Foot Fieldstone Boulder Stabilization
- 6 Foot Fieldstone Boulder Stabilization
- 9 Foot Fieldstone Boulder Stabilization
- Proposed Pyramet
- Parcel Boundaries
- Existing Storm Sewer
- Existing Watermain
- Existing Sanitary Sewer
- Existing Sanitary Sewer Manhole
- Centre Major
- Centre Minor

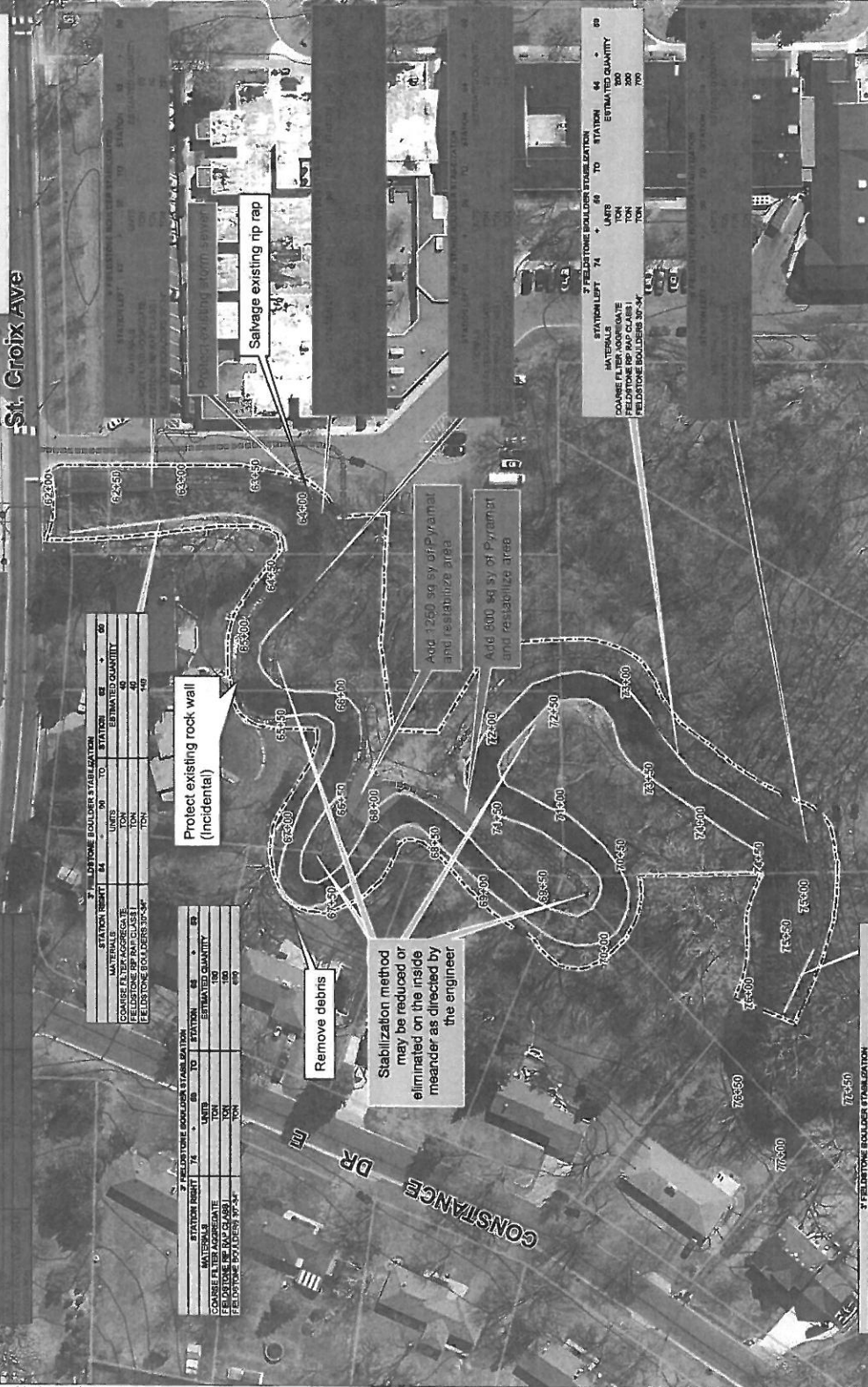


0 50 100 Feet

SHEET 13 OF 25 SHEETS

DATE: 08/11/2012
DRAWN BY: J. GLENN
CHECKED BY: J. GLENN

Restoration of Area B was not included in the BCWMC Feasibility Report for Reach 1 and portions of this reach may be deleted from the project due to available funding.



7' FIELDSTONE BOLLIDER STABILIZATION

STATION RIGHT	61	TO	STATION	62
MATERIALS				
COARSE FILTER AGGREGATE				40
FIELDSTONE BOLLIDER CLASS 1				40
FIELDSTONE BOLLIDER 30"-54"				140

7' FIELDSTONE BOLLIDER STABILIZATION

STATION RIGHT	74	TO	STATION	82
MATERIALS				
COARSE FILTER AGGREGATE				160
FIELDSTONE BOLLIDER CLASS 1				160
FIELDSTONE BOLLIDER 30"-54"				560

7' FIELDSTONE BOLLIDER STABILIZATION

STATION LEFT	74	TO	STATION	82
MATERIALS				
COARSE FILTER AGGREGATE				200
FIELDSTONE BOLLIDER CLASS 1				200
FIELDSTONE BOLLIDER 30"-54"				700

Protect existing rock wall (Incidental)

Remove debris

Stabilization method may be reduced or eliminated on the inside meander as directed by the engineer.

Add 1250 sq sy of Pyramet and restabilize area

Add 800 sq sy of Pyramet and restabilize area

Salvage existing rip rap

NOTE: THE QUANTITIES LISTED ABOVE TABULATION ARE ESTIMATED. THE CONTRACTOR AND ENGINEER WILL BASE THE ACTUAL QUANTITY OF MATERIALS TO BE USED BY FIELD STAKING. QUANTITIES WILL BE REVIEWED AND AGREED UPON PRIOR TO BEGINNING WORK.

7' FIELDSTONE BOLLIDER STABILIZATION

STATION LEFT	74	TO	STATION	82
MATERIALS				
COARSE FILTER AGGREGATE				10
FIELDSTONE BOLLIDER CLASS 1				10
FIELDSTONE BOLLIDER 30"-54"				50

ATTACHMENT TWO

Schedule of Rates

Golden Valley

Jeff Oliver, PE, City Engineer	\$72.66/hour
Eric Eckman, Public Works Specialist	\$52.78/hour

WSB & Associates, Inc.

Peter Willenbring	\$137.00/hour
Erick Francis.....	\$79.00/hour
Rich Hibbard.....	\$89.00/hour
Steve Gurney	\$107.00/hour
Tim Andler	\$94.00/hour
Doug Hackman.....	\$94.00/hour



Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 5C – 2012 Plymouth Street Reconstruction Project: Plymouth
BCWMC May 17, 2012 Meeting Agenda
Date: May 8, 2012
Project: 23270051 2012 236

5C. 2012 Plymouth Street Reconstruction Project: Plymouth

Summary

Proposed Work: Street reconstruction plan

Basis for Commission Review: Street reconstruction greater than 5 acres

Change in Impervious Surface: Decrease 84 square feet

Recommendation: Conditional approval

General Background & Comments

A request was received for review of a street reconstruction project in the City of Plymouth. The project includes excavation, grading, curb and gutter, bituminous paving, and installation of storm sewer of approximately 2.2 miles of residential streets. The project is located in the Plymouth Creek watershed and includes reconstruction of portions Shenandoah Lane, Niagara Lane, 9th Avenue, Lanewood Lane, Minnesota Lane, and Juneau Lane.

Approximately 10 acres will be disturbed as a result of the project. The project will result in a slight decrease of impervious surface (84 square feet). Though not required by the BCWMC, permanent BMP's include construction of two rainwater gardens to treat runoff before it enters the storm sewer.

Floodplain

No work will take place within the floodplain.

Wetlands

The City of Plymouth is the Local Government Unit (LGU) responsible for review of the project for conformance to the MN Wetland Conservation Act.

Stormwater Management

Runoff from the majority of the project discharges to the north and east through existing storm sewers and eventually to Parkers Lake. Portions of Lanewood Lane discharge through an existing

stormwater pond near Circle Park. The southernmost portions of Niagra Lane and Juneau Lane discharge to the south out of the Bassett Creek Watershed.

Water Quality Management

Permanent BMPs include construction two rainwater gardens and six sump manholes.

Erosion and Sediment Control

Temporary erosion control features to be implemented include silt fence and inlet protection.

Recommendation

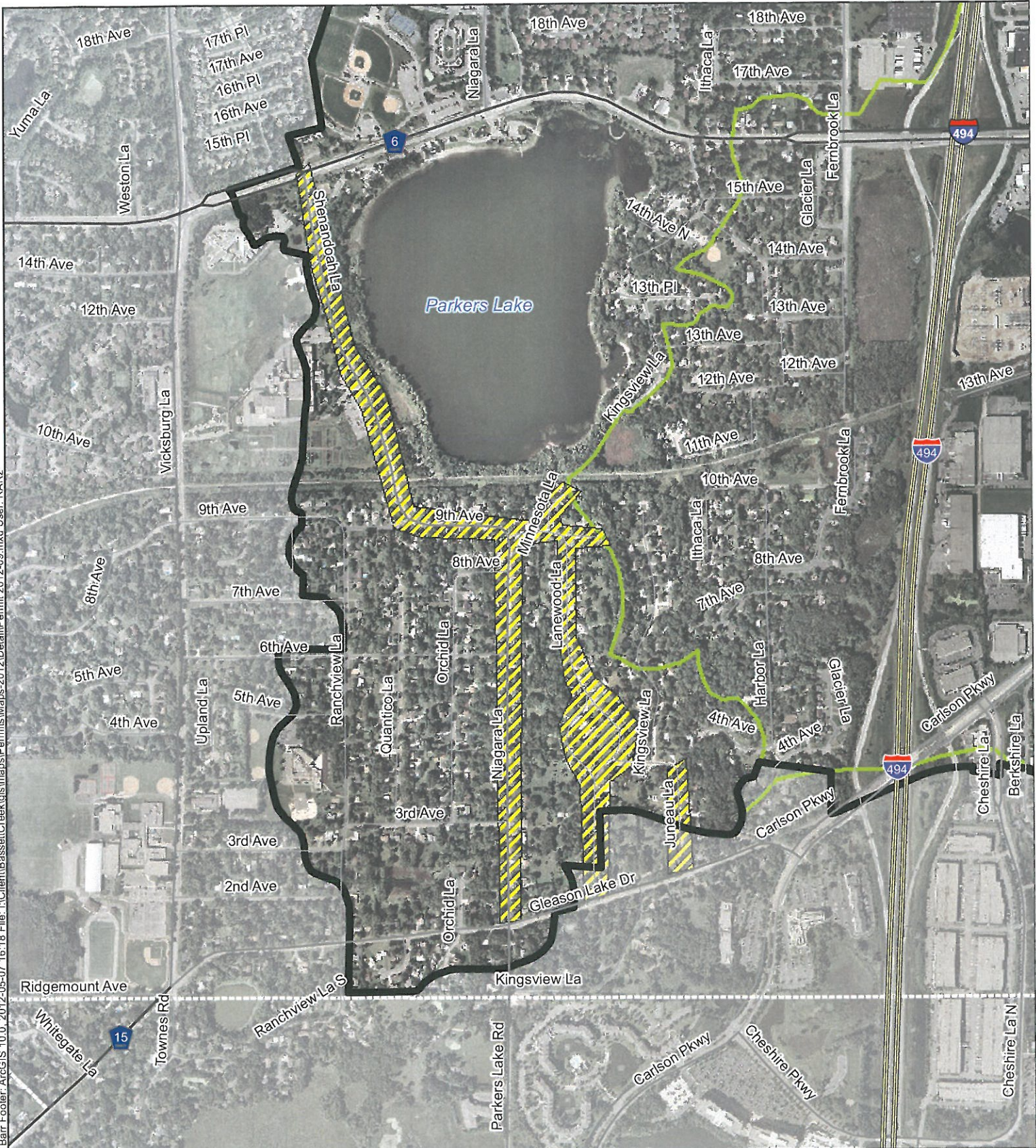
Approval based on the following conditions:

- a. The erosion control plan (Sheet 4) or the profile sheets (Sheets 9-18) should be updated to show locations where inlet protection will be used.
- b. Existing storm sewer outlets (FES downstream of existing structures 27, 35, and 80) should be inspected during construction, and additional riprap and filter should be placed if there are signs of erosion.
- c. The following notes should be added to the erosion control plan:
 - Soils tracked by motor vehicles must be cleaned daily from paved roadway surfaces throughout the duration of construction.
 - All exposed soils must be stabilized as soon as possible, but in no case later than 14 days after the construction activity has temporarily or permanently ceased.
 - Temporary or permanent mulch must be uniformly applied by mechanical or hydraulic means and stabilized by disc-anchoring or use of hydraulic soil stabilizers.
 - Provide a temporary vegetative cover consisting of suitable, fast-growing, dense grass-seed mix spread at 1.5 times the usual rate per acre.
 - Specify a permanent vegetation cover consisting of sod, a suitable grass-seed mixture, or a combination thereof. Seeded areas shall be either mulched or covered by fibrous blankets to protect seeds and limit erosion.
- d. Since there is an overall reduction in impervious surface, the site is not required by the BCWMC requirements to provide water quality treatment BMP's. However implementing the following recommendations will increase the pollutant removal efficiency of the rainwater gardens:
 - If possible, increase the soil bed depth to 30-inches above the under drains.








To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 5C - 2012 Plymouth Street Reconstruction Project; Plymouth
Date: May 8, 2012
Page: 3

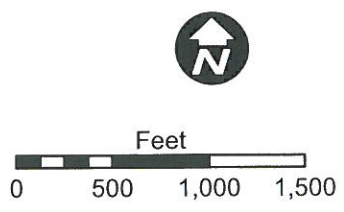
- Incorporating sand into the soil bed will allow for better infiltration. The BCWMC recommends a mixture of 50-60% sand, 20-30% top soil, and 20-30% organic leaf compost for rainwater gardens.
- Pretreatment is important for infiltration and filtration BMP's to help reduce clogging of the filter beds. Grass filter strips of at least 10-feet could serve as pretreatment for the rainwater gardens.

Barr Footer: ArcGIS 10.0, 2012-05-07 16:18 File: I:\Client\BassettCreek\GIS\maps\Permits\2012\Detail\Permit_2012-09.mxd User: RARZ

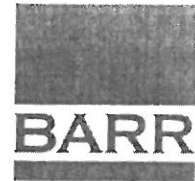


Imagery Source: Aerial Express (2009)

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



**LOCATION MAP
APPLICATION 2012-09
City of Plymouth 2012
Street Reconstruction Project
Plymouth, MN**



Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6E – Cost Estimate for Tasks Ordered at March 15 Commission Meeting
BCWMC April 19, 2012 Meeting Agenda
Date: April 11, 2012
Project: 23270051 2012 003

6E. Cost estimate for tasks ordered at March 15 Commission Meeting

Recommendations:

- a. Direct engineer to perform tasks as ordered.

Background

At their March 15, 2012 meeting, the Commission reviewed and directed staff to prepare the following items:

1. CIP-related tasks:
 - a. New summary CIP table – Prepare a summary table of the completed, underway and proposed CIP projects; information could include project location, project costs, total phosphorus removal, etc. This could be a table similar to Table 12-2 in the BCWMC watershed management plan, with the inclusion of additional information.
 - b. Revised “current” CIP table – Once the new summary CIP table is completed, revise the current CIP table to show only currently underway and proposed CIP projects, and note whether a plan amendment is needed.
 - c. CIP map – Prepare a map showing the completed, underway and proposed Commission CIP projects. Such a map could be included in the BCWMC annual report and posted on the BCWMC website. The map could be similar to Figures 8 and 9 in the BCWMC watershed management plan.
 - d. CIP flow chart – Coordinate with Golden Valley staff to prepare a flow chart showing the process for a CIP project, from project idea to construction completion.

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6E – Cost Estimate for Tasks Ordered at March 15 Commission Meeting
BCWMC April 19, 2012 Meeting Agenda
Date: April 11, 2012
Page: 2
Project: 23270051 2012 626

2. Budget document – Create a new budget document per the Financial Reporting Subcommittee recommendations (from August 9, 2011 subcommittee meeting), similar to what cities prepare for their budgets. In addition to any budget/financial information, the budget document would include a summary description about the project. To move this initiative forward would likely require the re-activation of the Financial Reporting Subcommittee to discuss the final product, responsibilities for preparing the final product, and the budget.

The estimated cost for Task 1 is \$5,000. Per the Commission discussion at the March 15 meeting, these tasks would be performed under the Next Generation Plan budget. As noted, more direction is needed before a cost estimate can be provided for Task 2.

UNIVERSITY OF MINNESOTA

The Bassett Creek Stream Restoration Project

Is restoration necessary?

Stream Restoration Capstone Final Report

Antoinette Abeyta

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Stephanie day

Michael Schumann

Jon Schwenk

Working under the supervision of

Dr. Chris Paola

Dr. Vaughan Voller

Final Draft Completed on 1/23/2012

Executive Summary

A reach of Bassett Creek was recently targeted for restoration with estimated costs reaching \$856,000. This report investigates the need and extent of stream restoration along this section of Bassett Creek by evaluating its morphologic and sediment stability.

The current morphology of Bassett Creek could be entirely natural or entirely anthropogenic. Regardless of historical anthropogenic impacts within the watershed, historical aerial photography shows that the study reach of Bassett Creek has not appreciably changed in over 70 years. Additionally, sediment transport measures from collected field data do not imply system instability.

A basic watershed model is developed to investigate the sensitivity of flood volumes in response to development within the watershed. Less than 5% of the watershed remains undeveloped. The model shows that developments within the watershed must be very large to have a discernible impact on flood flows. In other words watershed development is unlikely to cause erosion along Bassett Creek.

Based on the analyses in the report, it is recommended that no major actions be taken to maintain stability or prevent catastrophic bank failure. However, erosion at two sections along Bassett Creek is accelerated by pedestrian traffic. Access control features should be installed at these sites to prevent further erosion, and some mitigation efforts may also be necessary at these locations.

Conclusions

Bassett Creek has an unusual planform profile whose origin is unclear. Although local geologic history supports the channel/pond morphology, development during the late 1800s and early 1900s has impacted the watershed although the degree of impact remains unknown and merits further investigation. Regardless of how “natural” Bassett Creek truly is, analysis of historical aerial photography finds that the study reach has shown no signs of instability over the last 70 years.

Watershed development has increased the flashiness of the Bassett Creek system, but the effects of increased flow rates are somewhat mitigated by the presence of shallow lakes along the stream. Backwater effects detected in the survey show that these lakes can significantly affect flood flow. Some sections of the creek have very wide floodplains which act to buffer effects of high flows. Such sections resemble shallow ponds at high flows and single-thread channels at low flows. These shallow ponds and wide floodplains act as system stabilizers.

Although eroded banks are present they are not likely to become catastrophic bank failures. Two possible exceptions to this result were identified along the study reach. The first site is located between surveyed sections 4 and 5 on the left bank and based on its geometry and surrounding vegetation was most likely initially caused by a fallen tree’s rootwad. The initial eroded bank was then used as an access point to the stream thereby accelerating the erosion. The second site is located near cross section 9 on the right bank and appears to be a stream-side trail. Traffic along the bank here is clearly increasing erosion at this site.

An analysis of sediment transport shows that the system does convey sediment roughly in balance with supply. Overall, the erosion observed in the field is within the range of expected erosion in a natural stream, and the sediment transport analysis returned no evidence of systemic erosion or deposition. The worst cases of erosion along the study reach appear to be incidental and anthropogenic in nature.

Recommendations

Based on field data, observations, historical data, and quantitative analysis, the following actions are recommended:

- No large scale restoration is necessary along this reach of Bassett Creek.
- For the two mentioned heavily eroded banks, access control should be implemented in the form of either restricted access or stable access structures to preserve the banks.
- Plant native vegetation to help prevent local areas of unnatural erosion.
- Preemptively remove trees on the stream bank that are likely to fall and cause a large patch of bank erosion.
- Poor water quality is a problem in Bassett Creek. Funding a water quality project may enhance the stream’s health more than a restoration project.

From TAC memo dated April 11, 2012

2. Member Cities' Post-Construction Best Management Practices Requirements (and Review "Triggers"), and Potential Changes to Water Quality Policies Pertaining to Nutrient Loading Increases and a Water Quality Banking/Trading Program

The TAC reviewed a draft table comparing the member cities' and BCWMC's stormwater management standards and triggers, and the erosion and sediment control triggers. The TAC provided some edits/ corrections. The comparison tables (Table 1 and Table C) are attached.

The TAC also reviewed Commissioner Welch's following suggested changes to the BCWMC triggers (as provided in a May 11, 2011 memo from Geoff Nash):

The commission will review any land-alteration project that will:

- 1. disturb more than 50 cubic yards of soil or 5,000 square feet of vegetation, and*
- 2. contribute stormwater runoff and/or snowmelt to an impaired waterbody (as determined by the Minnesota Pollution Control Agency), whether or not a total maximum daily load study has been completed.*
- 3.*

Plans and specifications must be submitted to allow analysis of the project's potential to exacerbate the impairment, and best management practices must be incorporated into the project plans to negate the project's contribution to the impairment of the relevant waterbody/ies.

As part of this discussion, the TAC also considered staff's recommendation that the Commission's non-degradation policy (policy 4.2.2.4) could be expanded to apply to all projects, not just redevelopment projects (i.e., new development and linear projects).

After discussing the current city requirements, BCWMC requirements, TMDLs, and the BCWMC's role in tracking/monitoring the implementation of the Medicine Lake, Sweeney Lake and Wirth Lake TMDLs (these TMDLs were assigned categorical waste load allocations), the TAC recommended that the BCWMC requirements (and triggers) remain as they are now, for the following reasons:

- Medicine Lake, Sweeney Lake and Wirth Lake TMDL's are being/will be met with the implementation of only a few projects in each watershed
- Member cities will have significant difficulties meeting non-degradation requirements for linear projects.
- The impact of storm water management BMP's on water quality improvement at the trigger levels of 50 cubic yards and 5,000 square feet of disturbance would be difficult if not impossible to demonstrate or model. The BCWMC does not have staff to perform the increased amount of review, inspection, and follow-up that would result from this trigger level.
- Current regulations (city and BCWMC), plus the BCWMC's CIP, member cities' CIP and education appear to effectively address water quality issues and improve water quality.

The TAC also discussed the possibility of implementing "phosphorus-budgeting" in the watershed (e.g., 0.5 lb TP/acre allowed for the Medicine Lake watershed). Phosphorus budgets could be based on approved TMDLs, thus providing the Commission with a regulatory tool to

address impaired waters and TMDLs. Plymouth is looking into this approach, which is currently in use in the State of Maine. The TAC expressed interest in exploring this further at a future TAC meeting and bringing it to the Commission.

The TAC then discussed the possibility of establishing a water quality trading/banking program. The TAC noted that the merits of a banking/trading program include the likelihood that more regional facilities rather than on-site facilities would be constructed as a result of such a program (the TAC felt this was a benefit). However, with the level of development already in place in the watershed, the TAC felt that there would be very little opportunity to construct regional facilities, as there are very few large undeveloped tracts left in the watershed. The TAC noted that the Commission's CIP list includes a number of completed and future water quality treatment BMPs (e.g., ponds) that would be considered regional water quality ponds. The TAC discussed the status of the MIDS (Minimal Impact Design Standards) initiative program – members expressed interest in the “toolbox of BMPs” and the future banking/trading recommendations that will come out of it. The TAC recommended not pursuing water quality banking or trading at this time.

Recommendations

1. The TAC recommends that the Commission leave the current BCWMC requirements and triggers in place.
2. The TAC recommends that the Commission direct the TAC to look into “phosphorus budgeting” in the watershed at a future TAC meeting and report their findings to the Commission.
3. The TAC recommends that the Commission not pursue water quality banking or trading at this time.

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MEMORANDUM

Public Works Department

763-593-8030 / 763-593-3988 (fax)

Executive Summary For Action

Golden Valley City Council Meeting

May 15, 2012

Agenda Item

.. . Memorial Dedication for Edward (Ed) Silberman

Prepared By

Jeannine Clancy, Director of Public Works

Pat Schutrop, Administrative Assistant

Summary

At the March 20, 2012 City Council meeting, staff was directed to contact the Ed Silberman family to inform them that the City and the Bassett Creek Watershed Management Commission (BCWMC) wish to honor their father with a tribute and ceremony commemorating years of dedicated service to the City of Golden Valley and the BCWMC. The ceremony is scheduled for Thursday, July 19, at 2:30 pm at Schaper Park.

Staff recommends adopting the resolution commemorating Edward Silberman for dedicated service to the City of Golden Valley and the Bassett Creek Watershed Management Commission.

Attachments

- Resolution Commemorating Edward Silberman for dedicated service to the City of Golden Valley and the Bassett Creek Watershed Management Commission (1 page)

Recommended Action

Motion to adopt Resolution Commemorating Edward Silberman for Dedicated Service to the City of Golden Valley and the Bassett Creek Watershed Management Commission.

Member introduced the following resolution and moved its adoption:

RESOLUTION COMMEMORATING EDWARD SILBERMAN
FOR DEDICATED SERVICE TO THE CITY OF GOLDEN VALLEY
AND THE BASSETT CREEK WATERSHED MANAGEMENT COMMISSION

WHEREAS, the City of Golden Valley and the Bassett Creek Watershed Management Commission (BCWMC) wish to commemorate Ed Silberman, who was a long-time resident and former BCWMC commissioner representing Golden Valley by having a memorial dedication ceremony in his honor on Thursday, July 19, 2012; and

WHEREAS, Ed Silberman served as the BCWMC representative of the City of Golden Valley as Alternate Commissioner from 1973 to 1974, Commissioner from 1974 to 2000, and Treasurer from 1975 to 2000; and

WHEREAS, Ed Silberman diligently carried out the duties of his offices, leading the BCWMC by example of his tireless, energetic, dedicated, and selfless service, as well as his integrity, humor, fairness and sound judgment; and

WHEREAS, in the 26 years of Ed Silberman's service, the BCWMC implemented the construction of significant public works, assisted its member cities in regulating development to assure sound management of surface waters of the watershed, developed and reviewed plans for surface water management, and become a model of such organizations in the State of Minnesota; and

WHEREAS, Ed Silberman passed away on July 5, 2011, at the age of 97.

NOW, THEREFORE, BE IT RESOLVED by the Golden Valley City Council, that:

1. The City recognizes Ed Silberman's dedication and diligent work for the City and the BCWMC in the highest tradition of public service, and in particular for the conscientious and meticulous performance of his duties as the BCWMC's Treasurer.
2. On behalf of itself and the public it serves, the City extends its sincere thanks and appreciation to Ed Silberman for his significant contributions to the environment, public safety, and quality of life in the watershed by dedicating two memorial plaques and a bench on the Regional Trail in Schaper Park on July 19, 2012.

BE FURTHER RESOLVED by the Golden Valley City Council that July 19, 2012 is hereby proclaimed Ed Silberman Day in Golden Valley.

Shepard M. Harris, Mayor

ATTEST:

Susan M. Virnig, City Clerk

The motion for the adoption of the foregoing resolution was seconded by Member and upon a vote being taken thereon, the following voted in favor thereof; and the following voted against the same:, whereupon said resolution was declared duly passed and adopted, signed by the Mayor and her signature attested by the City Clerk.