

Bassett Creek Watershed Management Commission 2007 Annual Report



**Crystal • Golden Valley • Medicine Lake • Minneapolis
Minnetonka • New Hope • Plymouth • Robbinsdale • St. Louis Park**



May 2008

**Bassett Creek Watershed Management Commission
2007 Annual Report**

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Introduction

This report has been prepared in accordance with the Annual Reporting Requirements as set forth in the Minnesota Rules Chapter 8410.0150. The report format corresponds to the items listed in subparagraph 3 and subparagraph 4 of the Rules.

In 1969, the Bassett Creek Flood Control Commission was formed by adoption of a Joint Powers Agreement between the nine communities in the watershed. As required by the Joint Powers Agreement, the Bassett Creek Flood Control Commission adopted the Watershed Management Plan for Bassett Creek in February 1972.

In accordance with provisions of the 1982 Metropolitan Surface Water Management Act, the Bassett Creek Flood Control Commission revised its Joint Powers Agreement and created the Bassett Creek Watershed Management Commission (BCWMC). The Bassett Creek Watershed Management Plan was prepared by the BCWMC in 1986 and adopted on December 18, 1986. The Board of Water and Soil Resources approved the plan on July 26, 1989. The BCWMC's second generation *Watershed Management Plan* was approved by the Minnesota Board of Water and Soil Resources on August 25, 2004, and adopted by the BCWMC board of commissioners on September 16, 2004.

Regular meetings for the Bassett Creek Watershed Management Commission are held at 11:30 a.m. at the Golden Valley City Offices on the third Thursday of each month and are open to the public. The 2007 fiscal year extended from February 1, 2007 through January 31, 2008.

I. Annual Activity Report

A. 2007 Commissioners

Municipality	Commissioners	Alternates	Term Expires
Crystal	Pauline Langsdorf 8100 33 rd Avenue North Crystal, MN 55427 763-544-1317 langsdorf@aol.com	Stu Stockhaus 3437 Adair Avenue North Crystal, MN 55422 StockhausSJ@unique-software.com	February 1, 2009
Golden Valley	Mayor Linda Loomis, Treasurer City of Golden Valley 7800 Golden Valley Road Golden Valley, MN 55427 763-593-3990 Linda.loomis@ci.golden-valley.mn.us	David Hanson 1030 Angelo Drive Golden Valley, MN 55422 763-588-1478 davewhanson@gmail.com	February 1, 2009
Medicine Lake	Cheri Templeman PO Box 47091 Plymouth, MN 55447 612-750-3354 Templeman@Justice.com	John O'Toole MGO4SE, General Mills, Inc. PO Box 1113 Minneapolis, MN 55440 763-764-2422 john.otoole@genmills.com	February 1, 2009
Minneapolis	Michael Welch, Chair 217 South Cedar Lake Road Minneapolis, MN 55405 612-385-6885 Mike1w@qwest.net	Lisa Goddard 214 Logan Avenue North Minneapolis, MN 55405 763-475-0010 lgoddard@srfconsulting.com	February 1, 2010
Minnetonka	Kris Sundberg 18617 Covington Road Minnetonka, MN 55345 952-380-3432 Kristine_sundberg@hotmail.com	Vacant	February 1, 2010
New Hope	Daniel Stauner 8424 Meadow Lake Road E. New Hope, MN 55428-3142 763-536-1415 dstauner@ci.new-hope.mn.us	Tony Wagner 1804 Traymore Road Minnetonka, MN 55305 952-512-1817 twagner@eminnetonka.com	February 1, 2010
Plymouth	Ginny Black, Vice Chair Plymouth City Hall 3400 Plymouth Blvd Plymouth 55447 763-509-5004 Ginny_bassettcreek@att.net	Elizabeth Thornton 4270 Lawndale Lane North Plymouth 55446 763-509-0784 eathornt@comcast.net	February 1, 2008
Robbinsdale	Karla Peterson Minnesota Department of Health PO Box 64975 St. Paul, MN 55164-0975 651-215-0761 Karla.Peterson@health.state.mn.us	Erik Hansen Hammel, Green & Abrahamson, Inc. 701 Washington Avenue North Minneapolis, MN 55401 763-535-3436 ehansen@hga.com	February 1, 2008
St. Louis Park	Richard Johnson 8108 W. Franklin Avenue St. Louis Park 55426 952-545-0059 rejohnsonparkwifi@yahoo.com.com	C. Paul Carver 1450 Texas Circle St. Louis Park, MN 55426 612-423-6508 Paul.carver@bowmanandbrooke.com	February 1, 2008

B. BCWMC Staff and Consultants

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James P. Herbert, P.E.
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Bassett Creek Recording Administrator

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C. BCWMC Goals

Description of Overall Goals

The BCWMC's general goals fall under the categories of water quality, flood control, erosion and sediment control, stream restoration, wetland management, groundwater, public ditches, and public involvement and information. The goals are to:

- Manage the water resources of the watershed, with input from the public, so that the beneficial uses of wetlands, lakes, and streams remain available to the community.
- Improve the quality of stormwater runoff reaching the Mississippi River by reducing the nonpoint source pollution (including sediment) carried as stormwater runoff.
- Protect and enhance fish and wildlife habitat and maintain shoreland integrity.
- Reduce flooding along the Bassett Creek trunk system which is defined as:
 - a. The main channel from Medicine Lake to the Mississippi River.
 - b. The North Branch from upstream of County Road 9 to its junctions with the Main Stem near T.H. 100.
 - c. The Sweeney Lake Branch, from its source in Section 5, T29N, R21W to its junction with the Main Stem downstream of Sweeney Lake.
 - d. Plymouth Creek, from the point where it intersects with Highway 55 in Section 17, T228N, R22W to Medicine Lake, including the lake.
 - e. The designated water quantity and water quality storage facilities.
 - f. All other drains designated as trunks by the BCWMC.
- Protect human life, property, and surface water systems that could be damaged by flood events.
- Regulate stormwater runoff discharges and volumes to minimize flood problems, flood damages, and the future costs of stormwater management systems.

- Provide leadership and assist member cities with coordination of intercommunity stormwater runoff planning and design.
- Prevent erosion and sedimentation to the greatest extent possible to protect the BCWMC's water resources from increased sediment loading and associated water quality problems.
- Implement soil protection and sedimentation controls whenever necessary to maintain health, safety, and welfare.
- Implement stream restoration measures whenever necessary to maintain health, safety, and welfare.
- Maintain or enhance the natural beauty and wildlife habitat value of Bassett Creek.
- Achieve no net loss of wetlands in the BCWMC, in conformance with the Minnesota Wetland Conservation Act (WCA) and associated rules.
- Protect the quantity and quality of groundwater resources.
- Manage public ditches in a manner that recognizes their current use as urban drainage systems.
- Raise awareness of the watershed's existence and the role that the BCWMC plays in protecting water quality and preserving the watershed's health and aesthetics.
- Enable the target audiences to have confidence in the BCWMC's expertise and participate in a meaningful way in the planning process and ongoing projects conducted by the BCWMC.
- Raise awareness of the impact that individuals, businesses, and organizations have upon water quality and motivate these audiences to change personal/corporate behavior that has a negative impact on water quality and the watershed.

D. Summary of Work Performed in 2007

Following is a summary of work performed during 2007. Work associated with review of development proposals is listed in Section E.

- **Capital Improvement Program (CIP)**

- **CIP Projects Completed in 2007**—The following CIP projects were completed in 2007:
 1. Twin Lake: TW-1 (water quality pond): Preparation of contract documents and construction drawings for Twin Lake Water Quality Pond were completed.
 2. Medicine Lake—In-lake herbicide treatment (ML-7, option 18 in Medicine Lake plan)—Herbicide application to treat Curlyleaf Pondweed was previously performed during 2004 and 2005. The final application of the three year project occurred during 2006. A report of the results will be available in 2007.
- **Approved CIP Projects**—BWSR approved the following minor plan amendments and the projects were added to the BCWMC's CIP:
 1. Bassett Creek - Sweeney Lake Branch—Channel Restoration along the Sweeney Lake Branch of Bassett Creek from Cortlawn Pond to Turners Crossroad in the City of Golden Valley.
 2. Medicine Lake—West Medicine Lake Park Pond (ML-11) — Construction of West Medicine Lake Park pond in the City of Plymouth. At it April 19, 2007 meeting, the BCWMC approved a resolution approving a minor plan amendment to its Watershed Management Plan and a resolution approving the addition of West Medicine Lake Park Pond improvements to the BCWMC's CIP.
 3. Northwood Lake—Northwood Lake East Pond (NL-7) —Construction of Northwood Lake East pond in the City of New Hope. At it April 19, 2007 meeting, the BCWMC approved a resolution approving a minor plan amendment to its Watershed Management Plan and a resolution approving the

addition of Northwood Lake East Pond improvements to the BCWMC's CIP. It is expected that Hennepin County will levy taxes throughout the watershed for the project for collection and settlement in 2008.

- **Impaired Waters and Total Maximum Daily Loads (TMDL) Studies:**

1. The following water bodies in the Bassett Creek Watershed were listed in the *Final EPA-approved MPCA 2006 CWA 303(d) TMDL List of Impaired Water*¹ and the *Final Draft 2008 TMDL List of Impaired Water*²

Water Body (Lake/River ID #)	Impairment (Final 2006 TMDL List)	Impairment (Final draft 2008 TMDL List)
Bassett Creek (07010206-538)	Fish IBI	Fish bioassessments Fecal coliform
Sweeny Lake (27-0035-01)	Excess nutrients	Nutrient/Eutrophication Biological indicators
Wirth Lake (27-0037-00)	Excess nutrients Mercury FCA	Nutrient/Eutrophication Biological indicators Mercury in fish tissue
Medicine Lake (27-0104-00)	Excess nutrients Mercury FCA	Nutrient/Eutrophication Biological indicators Mercury in fish tissue
Parkers Lake (27-0107-00)	Mercury FCA	Mercury in fish tissue
Northwood Lake (27-0627-00)	Excess nutrients	Nutrient/Eutrophication Biological indicators

¹ List can be found at <http://www.pca.state.mn.us/publications/wq-iw1-03-2006.pdf>

² List can be found at <http://www.pca.state.mn.us/publications/wq-iw3-15.xls>

2. **Sweeney Lake TMDL Study**—In the *Final EPA-Approved MPCA 2004 CWA 303(d) List of Impaired Waters*, Sweeney Lake was listed as impaired due to excess nutrients (phosphorus) and was listed as having a target TMDL study start date of 2009 and a target TMDL study completion date of 2012.

The MPCA secured grant funding in the amount of \$62,000 for the study. These funds needed to be spent on the Sweeney Lake TMDL study by June 30, 2007. The MPCA secured an additional \$22,000 grant for the study that can be spent after June 30, 2007.

The BCWMC contracted with the MPCA and with SEH, Inc., for Phase I of the Sweeney Lake TMDL study. Phase I took place in 2007 and comprised a public involvement meeting, P8 modeling, lake monitoring/ sampling/ sediment core sampling, the initiation of the process to set up the BATHTUB/ Lake response model, and the determination of

the necessity of another year of lake monitoring. In late fall SEH determined that a second season of monitoring was desirable due to the atypical weather conditions during the 2007 monitoring season. Phase 2 of the TMDL study would be necessary to accommodate the second monitoring season and will take place in 2008.

For more information about the Sweeney Lake TMDL study, visit the following Web sites:

The Sweeney Lake TMDL project Web site maintained by SEH, Inc. at <http://www.sehinc.com/online/sweeney/index.htm> .

The Sweeney Lake TMDL project Web site maintained by the MPCA at <http://www.pca.state.mn.us/water/tmdl/project-sweeneylake.html>.

The TMDL page on the Bassett Creek Watershed Management Commission's Web site at <http://www.bassettcreekwmo.org/TMDLStudyHomepage.htm>

3. **Medicine Lake TMDL Study**—In the *Final EPA-Approved MPCA 2004 CWA 303(d) List of Impaired Waters*, Sweeney Lake was listed as impaired due to excess nutrients (phosphorus) and was listed as having a target TMDL study start date of 2009 and a target TMDL study completion date of 2012. The BCWMC and MPCA prepared the draft TMDL work scope. In 2007 the BCWMC discussed potentially undertaking the Medicine Lake TMDL Study in 2008. The BCWMC directed the Commission Engineer, Barr Engineering, to develop a draft work scope for Commission discussion and for review by the stakeholders, including Mn/DOT, Hennepin County, the City of Plymouth, and the Three Rivers Park District, the BCWMC, and the MPCA. Grant funding is expected for the completion of this TMDL study.
4. **Wirth Lake TMDL Study**—In the *Final EPA-Approved MPCA 2004 CWA 303(d) List of Impaired Waters*, With Lake was listed as impaired due to excess nutrients (phosphorus) and Mercury and was listed as having a target TMDL study start date of 2009 and a target TMDL study completion date of 2012. In 2007 the BCWMC directed its Commission Engineer, Barr Engineering, to prepare a draft work scope for Commission discussion and review. The BCWMC approved sending the work scope to Tim Larson at the MPCA for it comments. The BCWMC coordinated a meeting in early 2008 between the project stakeholders, including the City of Golden Valley, the Minneapolis Park and Recreation Board, the BCWMC, and the MPCA to continue

discussions of the project work scope. Grant funding is expected for the completion of this TMDL study.

5. **Bassett Creek Main Stem Biota TMDL—In the Final EPA-Approved MPCA 2004**

CWA 303(d) List of Impaired Waters, the Main Stem of Bassett Creek was listed as impaired for fish (biota) based on the results of sampling at one location at the downstream end of the watershed. The BCWMC requested and received confirmation from the Minnesota Pollution Control Agency that it will conduct fish and macroinvertebrate sampling in 2008 at various locations along the Main Stem to determine the extent of the impairment.

- **Capital Improvement Project (CIP) Reserve Account.** In 2005 the BCWMC established a \$250,000 reserve fund to address shortages in available funding in any given year for construction of water quality CIP projects. The BCWMC agreed to revisit the reserve account policy each year. In 2007 the BCWMC made no changes to the policy.
- **Annual Report**—The BCWMC prepared the 2006 Annual Report as set forth in the Minnesota Rules Chapter 8410.0150. The report was submitted to the Board of Water and Soil Resources and is available online at the Bassett Creek Watershed Management Commission Web site at <http://www.bassettcreekwmo.org>.
- **Water Quantity**—The BCWMC continued its lake- and stream-gauging program. The lake-gauging program consisted of collecting monthly lake-level readings at Medicine Lake, Sweeney Lake, Parkers Lake, Westwood Lake, Crane Lake (Ridgedale Pond), and Northwood Lake. Lake levels were measured twice per month between April and September. The stream-gauging program consisted of periodically surveying stages or inspecting the creek if periods of high flow exist. The BCWMC also participated with the Metropolitan Council and Minneapolis Park and Recreation Board on the watershed outlet monitoring program (WOMP) designed to continuously monitor flow and water quality. Graphs of lake levels are included in the appendices.
- **Watershed Inspection**—The BCWMC performed monthly erosion control inspections of construction sites within the watershed. Following each inspection, a letter was prepared and sent to the applicable municipality listing construction projects and the improvement needed for effective erosion control.

- **Flood Control Project Inspection**—The BCWMC performed its annual inspections of the flood control project. Following the inspection, letters were prepared and sent to the applicable municipality and Mn/DOT summarizing the results of the inspection.
- **Development Proposals**—The BCWMC reviewed 26 development proposals in the watershed for conformance to water quality and flooding policies. See Section E: Project Reviews.
- The BCWMC directed its Technical Advisory Committee (TAC) to review the following items:
 1. Proposed Capital Improvement Plan (CIP) modifications
 2. Sweeney Lake TMDL study work plan
 3. Proposed Medicine Lake TMDL study work plan
 4. The BCWMC's Channel Maintenance Fund: the potential addition of larger, high-priority channel restoration projects to the CIP and the potential dedication of the existing Channel Maintenance Fund to fund smaller channel maintenance projects.
 - A prioritization of larger, high-priority channel restoration projects
 5. Revisions to the Requirements for Improvements and Development Proposals document including Best Management Practices requirements.
 6. Mn/DOT stormwater contributions to City/Commission stormwater treatment ponds
 7. Exemptions to the BCWMC's nondegradation policy
 8. Wirth Pond
 9. Design and Minimum Requirements for Underground Storage/ Treatment Systems
 10. Minnesota Twin's Ballpark Drainage Plans
 11. City of Plymouth's draft nondegradation plan
 12. The Possibility of Dredging Medicine Lake
 13. The City of Minneapolis' Proposed Modifications to the Bassett Creek Tunnel

14. The City of Minnetonka's Request for Comments on its Nondegradation Plan and its Storm Water Pollution Prevention Plan.

15. Sample Rain Garden Maintenance Agreements and/ or maintenance processes as described by BCWMC member-city TAC members.

- **Permit Review Fees**—Based on the recommendation of its Technical Advisory Committee, the BCWMC implemented a permit review fee schedule effective January 1, 2006. The fee schedule is online at the Bassett Creek Watershed Management Web site at <http://www.bassettcreekwmo.org>.
- **20-Year Inspection of Bassett Creek Phase II Tunnels and I**—The BCWMC coordinated the winter 2008 inspection of the Bassett Creek tunnel with City of Minneapolis, MnDOT and Corps of Engineers.
- **Twin's Stadium Project**—The BCWMC coordinated with the city of Minneapolis and the Minnesota Ball Park Authority regarding inspection and construction of the proposed stadium over the Bassett Creek Tunnel.
- **Watershed Tour**—The BCWMC conducted a watershed tour for Commissioners, TAC and interested city representatives at the August 2007 BCWMC meeting.
- **Channel Maintenance Fund**—These funds are for creek and stream bank maintenance projects that are smaller than channel maintenance projects that are part of the BCWMC's Capital Improvement Plan. No Channel Maintenance Fund projects took place in 2007.
- **Flood Control Long-Term Maintenance Fund**—These funds are for projects to repair structures associated with the Flood Control Project. Repairs to the Bassett Creek tunnel located in the city of Minneapolis will be reimbursed from this fund.
- **Resolution 2007-01, A Resolution Approving the Transfer of Bassett Creek Watershed Management Commission Funds from the Administrative Account to the Erosion/ Sediment (Channel Maintenance) Account, Long-Term Maintenance Account, and TMDL Studies Account**— The BCWMC adopted Resolution 2007-01 at its January 18, 2007 meeting.
- **Resolution 2007-02, A Resolution Approving the Reimbursement to the Bassett Creek Watershed Management Commission of \$4,750 or 2.5% of the 2006 Tax Levy, For**

Administrative Expenses for Capital Improvement Projects (CIP) and Approving the Transfer of the Funds from the CIP Accounts to the Administrative Account— The BCWMC adopted Resolution 2007-02 at its January 18, 2007 meeting.

- **Resolution 2007-03, A Resolution of Appreciation for the services of Mary Gwin-Lenth to the Bassett Creek Watershed Management Commission**—The BCWMC adopted Resolution 2006-03 at its January 18, 2007 meeting in recognition of the time and dedicated services given to the BCWMC from Mary Gwin-Lenth—the outgoing BCWMC commissioner representing the City of New Hope.
- **Resolution 2007-04, A Resolution Approving the Reimbursement to the Bassett Creek Watershed Management Commission 2.5% of the Requested 2006 Tax Levy for Administrative Expenses for Capital Improvement Projects (CIP) and Approving the Transfer of the Funds from the CIP Account to the Administrative Account; Amending Resolution No. 07-02**—The BCWMC adopted Resolution 2007-04 at its January 18, 2007 meeting.
- **Resolution 2007-05, A Resolution of Appreciation for the services of Bill Yaeger to the Bassett Creek Watershed Management Commission**—The BCWMC adopted Resolution 2006-05 at its February 15, 2007 meeting in recognition of the time and dedicated services given to the BCWMC from Bill Yaeger—the outgoing BCWMC commissioner representing the City of Minnetonka.
- **Resolution 2007-06, A Resolution Approving Agreements with the Pollution Control Agency and Short Elliot Hendrickson, Inc. for a TMDL Study of Sweeney Lake**—The BCWMC adopted Resolution 2006-05 at its March 1, 2007 special meeting.
- **Resolution 2007-07, A Resolution Designating Depositories for Bassett Creek Watershed Management Commission Funds**—The BCWMC adopted Resolution 2006-05 at its March 15, 2007 meeting.
- **Resolution 2007-08, A Resolution Approving Watershed Plan Amendment**—The BCWMC adopted Resolution 2007-08 at its April 19, 2007 meeting to add to the Capital Improvement Program (CIP) the West Medicine Lake Park Pond on Plymouth Creek and the Northwood Lake East Pond immediately downstream of Northwood Lake.

- **Resolution 2007-09, A Resolution Ordering 2007 Improvements, Designating Members Responsible for Construction, and Making Findings and Certifying Costs to Hennepin County Pursuant to Minnesota Statutes, Section 103B. 251**—The BCWMC adopted Resolution 2007-09 at its April 19, 2007 meeting. The resolution pertains to the projects approved in Resolution 2007-08.
- **Resolution 2007-10, A Resolution Approving Watershed Plan Amendment**—The BCWMC adopted Resolution 2007-10 at its September 20, 2007 meeting. The Resolution approved the minor plan amendment that comprised the project cost revision for the construction of Northwood Lake East Pond (NL-7) in the City of New Hope, the Channel restoration along the Sweeney Lake Branch of Bassett Creek from Courtlawn Pond to Turners Crossroad in the City of Golden Valley, and Updating Table 5-3 Bassett Creek Flood Profiles.
- **Resolution 2007-11, A Resolution Ordering 2007 Improvements, Designating Members Responsible for Construction, and Making Findings and Certifying Costs to Hennepin County Pursuant to Minnesota Statutes, Section 103B. 251**—The BCWMC adopted Resolution 2007-11 at its September 20, 2007 meeting. The resolution pertains to the projects approved in Resolution 2007-10.
- **Resolution 2007-12, A Resolution Ordering 2007 Improvement and Designating Member Responsible for Construction**—The BCWMC adopted Resolution 2007-12 at its November 14, 2007 meeting. The resolution pertains to the construction of the Sweeney Lake Branch of Bassett Creek from Courtlawn Pond to Turners Crossroad in the City of Golden Valley, which was approved by the BCWMC through Resolution 2007-10.

E. 2008 Projected Work Plan

Following is a list of tasks to be completed during 2008:

- **Water Quantity**—The BCWMC will perform its lake- and stream-gauging program. The lake-gauging program will encompass Medicine Lake, Sweeney Lake, Parkers Lake, Westwood Lake, Crane Lake (Ridgedale Pond), and Northwood Lake. The stream-gauging program will consist of periodically surveying stages or inspecting the creek if periods of high flow exist.
- **Watershed Inspection**—The BCWMC will perform its watershed construction-site inspection program. The inspections have proved valuable in correcting erosion- and sediment-control practices that are not in conformance with BCWMC policies.
- **Flood Control Project Inspection**—The BCWMC will perform its flood control project inspection program as set forth in the Bassett Creek Flood Control Project Operations and Maintenance Manual.
- **Water Quality**—Proposed water quality tasks for 2008 include performance of the following:
 1. **Water Quality Monitoring:** The BCWMC and Three Rivers Park District will perform detailed lake monitoring of Sweeney and Twin Lake in Golden Valley. The City of Plymouth and the Three Rivers Park District will perform detailed lake monitoring of Medicine Lake.
 2. **CAMP:** The lake-gauging program will include lake monitoring through the citizens assisted monitoring program (CAMP). Volunteer citizens will monitor the following lakes: Sweeney Lake in Golden Valley, Northwood Lake in New Hope, Westwood Lake in St. Louis Park, Parkers Lake in Plymouth, South Rice Lake in Golden Valley.
 3. **Watershed Outlet Monitoring Program (WOMP):** The program will be managed by Metropolitan Council Environmental Services and the Minneapolis Park and Recreation Board. The BCWMC will provide technical support for the maintenance of the rating curve.

4. ***Sampling on Bassett Creek for E. Coli and Fecal Coliform:*** Sampling for E. Coli and Fecal Coliform in the Main Stem of Bassett Creek will be performed by the Three Rivers Park District for the BCWMC from May to September 2008
 5. ***River Watch Program:*** will continue be managed by Hennepin County Environmental Services.
 6. ***Parkers Lake:*** will be monitored by Three Rivers Park District and the City of Plymouth.
 7. ***Wirth Lake:*** will be monitored by Minneapolis Parks and Recreation Board.
- **Development**—The BCWMC will review development proposals in the watershed for conformance to water quality and flooding policies.
 - **Citizen Involvement**—The BCWMC will make provisions for citizen participation including an opportunity at each monthly BCWMC meeting to hear citizen-input about agenda and non-agenda items. The BCWMC posts its upcoming meeting agendas and its previous meeting minutes on its Web site (www.bassettcreekwmo.org) to provide citizens an opportunity to monitor BCWMC actions. Citizen involvement is an important component on Total Maximum Daily Load (TMDL) studies and public meetings on the Sweeney Lake, Medicine Lake, and Wirth Lake TMDLs will take place in 2008.
 - **Second Generation Watershed Management Plan**—The BCWMC will implement its Capital Improvements Program as described in the BCWMC *Watershed Management Plan*.
 - **Capital Improvement Program and Prioritization**—The BCWMC will review and update its capital improvement program and its water resource prioritization. The Capital Improvements Program is included in the report appendices.
 - **Channel Maintenance Fund**—The BCWMC will continue its creek and streambank maintenance fund. The member cities will be assessed \$25,000 annually for the fund.
 - **Flood Control Long-Term Maintenance Fund**—The BCWMC established a long-term maintenance fund to be used to repair structures associated with the Flood Control Project. The member cities will be assessed \$25,000 annually to a not-to-exceed fund amount of \$1 million.

- **Annual Report**—The BCWMC will prepare an annual report and submit to BWSR and member cities and will post it on its Web site.
- **Citizen Assisted Lake Monitoring Program (CAMP)**—The BCWMC will support the CAMP program with the Metropolitan Council Environmental Services.
- **Requirements for Improvements and Development Proposals**—The BCWMC will update the document, which is a reference tool that details the BCWMC's requirements of improvement and development projects in the watershed.
- **Sweeney Lake TMDL Study**—The BCWMC will conduct the Phase 2 of the TMDL study on Sweeney Lake.
- **Medicine Lake TMDL Study**—The BCWMC and MPCA will review draft work scope and prepare final TMDL work plan.
- **Wirth Lake TMDL Study**—The BCWMC and MPCA will review draft work scope and prepare final TMDL work plan.
- **Bassett Creek Main Stem Biota TMDL—In the Final EPA-Approved MPCA 2004 CWA.** The BCWMC requested and received confirmation from the Minnesota Pollution Control Agency that the MPCA will lead the fish and macroinvertebrate sampling in 2008 at various locations along the Main Stem of Bassett Creek to determine the extent of the impairment.

F. Project Reviews

Two tables have been prepared that list development proposals and other plans that were reviewed by the BCWMC and/or its engineering consultant. The following table, *Plans Presented for BCWMC Review and Comment* includes development proposals and other plans that were reviewed and discussed during the BCWMC meeting. The second table, *Plans Presented for Administrative Review and Comment*, is a list of projects that were reviewed by the BCWMC's engineer in accordance with policies of the BCWMC. The second table is included in the report appendices.

Plans Presented For BCWMC Review and Comment

Appl. Form #	Project Name	Date Submitted	City	Comments	Date of BCWMC Meeting
2006-39	Industrial Supply Co.	1-9-07	Ply	Item deferred to March meeting	2-15-07
2006-39	Industrial Supply Co.	1-9-07	Ply	Conditional approval,	3-15-07
2007-03	Golden Valley 2007 Pavement Management Program	3-1-07	GV	Conditional approval, Public roads, culvert replacement (Dresden Ln, Bassett Cr. Drive)	3-15-07
2007-11	Van White Memorial Boulevard: Phase 2	6-25-07	Mpls	Approval	7-19-07
2007-10	Bassett Creek Office Centre	6-19-07	Ply	Approval Commercial development	8-16-07
2007-16	Productivity Inc. Building Addition	8-24-07	Ply	Conditional approval, Industrial expansion	9-20-07
2007-24	1334 Spring Valley Road	10-30-07	GV	Conditional approval, Shoreline Protection	11-14-07
2007-26	2300 Noble Avenue	12-06-07	GV	Conditional approval, Stream bank protection	12-20-07
None	Twins Stadium and City of Minneapolis - Proposed Modifications to Bassett Creek Tunnel	August 2007	MPLS	Approval	9-6-07

G. Water Quality Monitoring Data and Studies

The following water quality monitoring and water quality studies were performed:

- **Westwood Lake and Crane Lake**—The BCWMC and Three Rivers Park District performed detailed lake monitoring of Westwood Lake and Crane Lake. Monitoring was performed at each lake on six to twelve occasions for selected parameters by Three Rivers Park District. Selected parameters included total phosphorus, soluble reactive phosphorus, total nitrogen, pH and chlorophyll *a*. Phytoplankton, and zooplankton were analyzed by BCWMC staff. An aquatic survey was performed on two occasions. The report *2007 Lake Water Quality Study - Westwood Lake and Crane Lake* (March, 2008) was prepared by the BCWMC. A copy of the report is appended. The report is also available on the Bassett Creek Watershed Management Commission Web site (<http://www.bassettcreekwmo.org>)
- **Citizens Assisted Lake Monitoring Program (CAMP)**—The BCWMC participated with the Metropolitan Council Environmental Services (MCES) in its citizen-assisted lake-monitoring program (CAMP). Volunteer citizens monitored the following lakes: Sweeney Lake in Golden Valley, Northwood Lake in New Hope, Westwood Lake in St. Louis Park, Parkers Lake in Plymouth, and South Rice Lake in Golden Valley. See *2006 Study of the Water Quality of 186 Metropolitan Area Lakes*.
- **Detailed stream monitoring at Bassett Creek WOMP station**—Stream monitoring was performed in cooperation with the Metropolitan Council Environmental Services (MCES) and the Minneapolis Park and Recreation Board (MPRB) as part of the stream monitoring and watershed outlet monitoring program (WOMP). See MCES Web site for additional information: <http://www.metrocouncil.org/environment/RiversLakes/index.htm>
- **River Watch Program**—The BCWMC has supported the Hennepin County Environmental Services in its River Watch Program. The program began in 1995 and utilizes volunteers to conduct biological monitoring as a means of monitoring water quality. There were two River Watch sites in the Bassett Creek Watershed in 2007 including site GM, which is located on Betty Crocker Drive in the City of Golden Valley, and site #13, which is located east of Highway 100 and south of Bassett Creek Drive. See the report “Hennepin County River Watch 2007 Year in Review: Bassett Creek” on the Bassett Creek WMO Web site at <http://www.bassettcreekwmo.org/Water%20Quality/RiverWatch2007BassettReport.pdf>. See

Hennepin County Environmental Services Web site for additional information about River Watch:

<http://www.co.hennepin.mn.us/portal/site/HCInternet/menuitem.3f94db53874f9b6f68ce1e10b1466498/?vgnextoid=e76d26b92c9fc010VgnVCM1000000f094689RCRD&vgnextfmt=default>

- **Medicine Lake and Parkers Lake**—The City of Plymouth has retained Three Rivers Park District to monitor Medicine Lake and Parkers Lake. A copy of the 2005-2007 results is included in the report *City of Plymouth Water Quality Monitoring 2005-2007* (Three Rivers Park District). The results and report can be obtained from Plymouth and Three Rivers Park District staff.
- **Birch Pond, Wirth Lake, Spring Lake and Bassett Creek WOMP Data**—The Minneapolis Park & Recreation Board (MPRB) monitored Wirth Lake and Spring Lake. A copy of the executive summary and other sections related to Bassett Creek watershed from the MPRB's *2006 Water Resources Report* (October 2007) is appended and can be obtained from Minneapolis Park & Recreation Board Web site at:
<http://www.minneapolisparcs.org/default.asp?PageID=1017>
- **Capital Improvements Program**—The 10-year capital improvements program plan and potential future water quality capital improvements plan prepared by the BCWMC is included in the BCWMC *Watershed Management Plan* (September 2004).
- **Medicine Lake Gage**—A staff gage is located at the Medicine Lake outlet structure. The current 0.00 staff gage reading is equal to 887.00 MSL.

H. Local Plan Adoption

Many of the municipal plans were prepared prior to adoption of the BCWMC 2004 plan. The following table shows the status of the surface water management plan preparation for each municipality.

Municipality	Local Plan Status	Comments
Crystal	In progress	Final plan scheduled to be completed in 2008.
Golden Valley	Completed	Local plan approved by the BCWMC in August 1999. Resolution 99-6. Revised plan is completed and is scheduled to be reviewed by the BCWMC in 2008.
Medicine Lake	Not started	Plan will not be prepared. Medicine Lake will adopt Plymouth local plan after completion.
Minneapolis	Completed	Local plan was approved by the BCWMC in September 2006. Resolution 2006-04.
Minnetonka	Completed	Local plan was approved by the BCWMC in October 1997. Resolution 97-8. Revised plan is completed and is scheduled to be reviewed in 2008.
New Hope	Completed	Local plan was approved by the BCWMC in August 1996; reconfirmed in April 1997. Resolution 97-4. Revised plan is scheduled to be completed in 2008.
Plymouth	Completed	Local plan conditionally approved by the BCWMC in February 1999. Resolution 99-3. Revised plan is scheduled to be completed in 2008.
Robbinsdale	Completed	Local plan was approved by the BCWMC in October 1996; reconfirmed in April 1997. Resolution 97-5. Local plan is being reviewed as part of the city's comprehensive plan review in 2008. Revised plan is anticipated to be completed in 2008.
St. Louis Park	Completed	Local plan was approved by the BCWMC in March 2000; Resolution 00-2. Revised plan is scheduled to be completed in 2008.

I. Watershed Communication/Public Education

In accordance with Minnesota Rules, Chapter 8410, Subpart 4, the BCWMC utilized the following information sources for providing information to the general public:

- **Improvements and Development Requirements**—The report *Requirements for Improvements and Development Proposals*, prepared by the BCWMC (November 1998), is posted on the BCWMC's Web site at <http://www.bassettcreekwmo.org/require/97reptab.htm>. This document has been extensively reviewed during 2007 by the Commission Engineer and the BCWMC's Technical Advisory Committee and will be reviewed by the BCWMC in 2008.
- **Web site**—The BCWMC updated information on its Web site throughout 2007. Information posted on the site includes: the BCWMC's Watershed Management Plan, BCWMC meeting agendas, meeting/ events calendar, meeting minutes, water quality information, details of the Total Maximum Daily Load studies being undertaken by the BCWMC, the permit application form and the requirements for development and improvement proposals being submitted for BCWMC review, and the BCWMC's annual reports. In 2007, there were approximately 103,073 visits to the BCWMC's Web site (compared to 79,217 visits in 2006). A copy of the Web site Usage Report from January 1, 2007 through December 31, 2007 is included in the appendices. The address for Bassett Creek Web site is <http://www.bassettcreekwmo.org/>
- **Monthly BCWMC Meetings**—BCWMC meetings are held on the third Thursday of every month at the City of Golden Valley City Hall and are open to the public.
- **BCWMC Meeting Packet**—Each month the BCWMC distributes monthly a BCWMC meeting agenda, meeting minutes, and meeting materials including various correspondence and items pertaining to the meeting agenda to approximately 40 interested parties.
- **Communications Coordinator**—The BCWMC will continue to implement a public information plan as recommended by the Policy and Citizens Advisory Groups at its November 13, 2001 special meeting.
- **Technical Advisory Committees (TAC) Meetings**—The TAC met the first Thursday of every other month and on additional days as needed to discuss issues directed to it by the BCWMC. The TAC meetings were open to the public.

- **Metro Watershed Partners**—The BCWMC participated as a member of the Metro Watershed Partners as a supporter of the *Minnesota Water- Let's Keep it Clean* stormwater education program for the Twin Cities Metro Area and Greater Minnesota. The program is designed to assist local government, organizations, educators, and individual citizens in conducting stormwater education outreach. Components of the program include:
 - **Maintenance of the Clean Water Minnesota Web site at www.cleanwatermn.org** , which is a stormwater education resource.
 - Creation of stormwater education publications
 - Creation of stormwater education print ads available for placement in the media by local government
 - Creation and/or adaptation of stormwater education radio ads and public service announcements (PSAs), including the PSAs “Plop” and “Fowl Water” that played on prime time cable television programs throughout central Minnesota and western Wisconsin from September 24th to October 28th, 2007.
- Minnesota’s Office of the Legislative Auditor (OLA) Evaluation Report on Watershed Management: The BCWMC participated in the 2007 watershed management evaluation conducted by the OLA. The full report is available on the OLA Web site at <http://www.auditor.leg.state.mn.us>. The report’s summary of the BCWMC is included in Appendix C, Watershed Communications.
- **Plymouth Yard and Garden Expo**—The BCWMC participated in the City of Plymouth’s 2007 Yard and Garden Expo.
- **Pilgrim Lane Elementary Environmental Expo**—The BCWMC participated in the City of Plymouth’s annual environmental expo by setting up an educational display and conducting hands-on demonstration activities.
- City of St. Louis Park Environmental Events—The BCWMC participated in three educational events in St. Louis Park including an Earth Day event, an environmental fair, and a City-wide festival.

- **Demonstration and Public Communications Budget Items**—The BCWMC launched its new, small-grant program, developed by the BCWMC’s Education and Outreach Committee. The program is designed to promote water-quality improvement projects and communications and education programs that reduce pollution. The grant program provides up to \$1,000 to grantees to support the following activities:

1. Water-quality improvement projects;
2. Communication and education programs on reducing pollution from household activities; and
3. Projects that raise citizen awareness of their role/ responsibility in improving and maintaining water quality in the watershed.

In 2007 the BCWMC awarded the following grants:

- MetroBlooms- the BCWMC granted up to \$1,000 for educational workshops on eco-friendly choices in residential landscaping and gardening.
- Pilgrim Lane Elementary- the BCWMC granted up to \$940 for lessons at the Eastman Nature Center to teach third- and fourth-grade students about the water cycle, pond and stream life, aquatic organisms, watersheds and the value of wetlands.
- St. David’s Child Development and Family Services Grant- the BCWMC granted up to \$1,000 for up to 10 teachers in the Bassett Creek Watershed to attend Project WET and Project WILD Aquatic training workshops.

The BCWMC has information about grant eligibility and application procedures in its grant program section of the Bassett Creek Watershed Management Organization Web site at <http://www.bassettcreekwmo.org/index.html>.

- **BCWMC Education and Public Outreach Committee:**

1. The BCWMC’s Education and Public Outreach Committee’s developed a table-top display for use at educational events. The Committee also began preliminary designs for a retractable education display.

2. The Education and Public Outreach Committee participated in quarterly joint meetings of the Education and Public Outreach Committees (EPOC) of the Bassett Creek Watershed Management Organization (WMO), Elm Creek Watershed Management Organization (WMO), and Shingle Creek/ West Mississippi WMO. The purpose of the joint meetings is to promote consistent and cooperative messages in the participating watersheds.
3. The Education and Public Outreach Committee participated with the Joint EPOC to conduct a joint survey of residents regarding knowledge of water-related issues. The survey was completed in 2007 and the results will be available for review in early 2008.
4. The Education and Public Outreach Committee selected a new BCWMC logo, which was adopted by the BCWMC in 2007.

J. Assessment of Changes in Fund Balance

A discussion of the fund balance is included in the BCWMC's annual financial audit report. A copy of the annual audit report will be made available on the Bassett Creek Watershed Management Commission's Web site at <http://www.bassettcreekwmo.org>.

K. Wetland Conservation Act/Wetland Banking Program

1991 Wetland Conservation Act—The interim program of the 1991 Wetland Conservation Act was effective through December 31, 1993. On January 1, 1994, the permanent program of the 1991 Wetland Conservation Act became effective. Each municipality was required to designate the local government unit (LGU) responsible for administering the interim program and the permanent program of the 1991 Wetland Conservation Act. The following table indicates the local governmental unit for each municipality.

Municipality	Permanent Program (Effective 1/1/94)
Crystal	Crystal
Golden Valley	Golden Valley
Medicine Lake	BCWMC
Minneapolis	Minneapolis
Minnetonka	Minnetonka
New Hope	New Hope
Plymouth	Plymouth
Robbinsdale	BCWMC
St. Louis Park	BCWMC

BCWMC = Bassett Creek Watershed Management Commission

Wetland Mitigation Policy—The BCWMC's wetland mitigation policy specifies that filling or developing existing lakes and wetlands require an evaluation of the benefits of the wetland for stormwater storage, water quality enhancement, and wildlife habitat, as well as the development of a plan to mitigate the loss of those benefits somewhere in the affected municipality.

Wetland Banking Program—The BCWMC has not adopted a wetland banking program.

II. Annual Financial Report

The 2007 fiscal year for the Bassett Creek Watershed Management Commission (BCWMC) commenced on February 1, 2007 and ended January 31, 2008.

A. Approved Budget

The approved operating budget for fiscal year 2007 was \$447,500. Each member's contribution toward the annual budget is based 50 percent on the total area of the municipality within the watershed and 50 percent on the tax capacity of the area within the watershed. In 2007 the BCWMC was awarded \$162,650 in grant funds from the Minnesota Pollution Control Agency to conduct the Total Maximum Daily Load study on Sweeney Lake. A copy of the 2007 budget proposal, member-city assessment table, and operating budget prepared by the BCWMC's Deputy Treasurer are appended.

B. Report of Revenues

See Financial Audit Report.

C. Report of Expenditures

See Financial Audit Report.

D. Financial Audit Report

The annual audit report for the year ending January 31, 2007, was performed by Malloy Montague Karnowski Radosevich & Co., P.A. A copy of the annual audit report will be made available on the Bassett Creek Watershed Management Commission's Web site at <http://www.bassettcreekwmo.org>.

Introduction

I. Annual Activity Report

II. Annual Financial Report

Appendix A

Lake Levels

Appendix B
Water Quality Monitoring

Appendix C
Watershed Communications

Appendix D
Financial Information

Appendix E
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Appendix F
Capital Improvements Program

Appendix G
Web Site Usage Report

Appendix H
Historical BCWMC Roster

Appendix I

Plans Presented for Administrative Review and Comment

Plans Presented for Administrative Review and Comment

Appl. Form #	Project Name	Date Submitted	City	Type
2006-27	West Health Parcel E	8-22-06	Ply	Commercial
2006-32	Taco Bell	10-30-06	Ply	Commercial
2006-38	Penn-Lowry Crossing	1-5-07	Mpls	Commercial
2006-39	Industrial Supply Co.	1-09-07	Ply	Commercial
2007-1	Plymouth Crossroads Station	1-29-07 2-13-07	Ply	Commercial
2007-2 (2005-4)	Peony Crossing (formerly Plymouth Acacia)	2-2007	Ply	Commercial
2007-3	GV Pavement 2007 PMP, Dresden LN, BC Dr. culverts	3-01-07	GV	Public-Road
2007-4	Honeywell Renovation	4-3-07	GV	Industrial
2007-5	South Shore Dr. Townhomes	4-19-07	Ply	Multiple Residential
2007-6	1900 E. Medicine Lake Blvd.	5-8-07	Ply	Multiple Residential
2007-7	St. Louis Park Pavement Mgt.	5-24-07	SLP	Public-Road
2007-8	Metropoint Phase IV	6-18-07	SLP	Commercial
2007-9	Public Storage Site	6-12-07	Ply	Commercial
2007-10	Bassett Cr. Office Centre	6-19-07	Ply	Commercial
2007-11	Van White Memorial Blvd.	6-25-07	Mpls	Public-Road
2007-12	Park Place Clubhouse	7-9-07	Ply	Multiple Residential
2007-13	Center National Bank	7-30-07	Ply	Commercial
2007-14	Room & Board	7-23-07	GV	Commercial
2007-15 2007-15 2007-15A	Waterford Office Develop. Waterford Office Dev Phase 1 Waterford Office Dev – Final	8-14-07 9-21-07 11-1-07	Ply	Commercial
2007-16	Productivity Inc.	8-24-07	Ply	Industrial
2007-17	St. Louis Park Office Bldg.	8-30-07	SLP	Commercial
2007-18	Quest Dev 10600 Building	9-7-07	Ply	Commercial
2007-19	RHT Office Building	9-6-07	GV	Commercial
2007-20	Upsher Smith Parking Imp.	9-28-07	Ply	Industrial
2007-21	Missions Inc.	10-15-07	Ply	Institutional
2007-22	Westwood Lake Office	10-16-07	GV	Commercial
2007-23	Banner Engineering	10-26-07	Ply	Industrial
2007-24	1334 Spring Valley Road	10-30-07	GV	Single Family
2007-25	Wood Creek	11-1-07	Ply	Public-Drainage
2007-26	2300 Noble Ave.	12-6-07	GV	Single Family