



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

Page # 1
 Invoice # 23270051-2010-1
 Project # 23/27-0051
 Client # 59
 March 8, 2010

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
 January 30, 2010 through February 26, 2010

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, 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; correspondence with Chair Loomis regarding budget questions; internal meeting to discuss administration transition issues/procedures; communications with Charlie LeFevre regarding CIP/plan amendments meeting with BWSR, telephone conference call with MPCA regarding E-Coli TMDL.

James P. Herbert, Principal Engineer/Scientist		
2.2 hours @ \$140.00 per hour	\$	308.00
Leonard J. Kremer, Principal Engineer/Scientist		
4.5 hours @ \$160.00 per hour	\$	720.00
Karen L. Chandler, Senior Consultant		
2.0 hours @ \$140.00 per hour	\$	280.00
Technicians/Administrative	\$	240.00
Expenses (copies)	\$	<u>3.00</u>
Subtotal, Technical Services	\$	1,551.00

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; coordination with St. Louis Park and preliminary review of final plat for Metroquip site; communication with Inspec regarding Birchview School in Plymouth; telephone conversation with consultant regarding Minneapolis site; telephone conversation with Advanced Engineering and correspondence with Golden Valley staff regarding proposed Menards redevelopment, reviewed proposed drainage and water quality issues for Menard's site and prepared email letter to developer and City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist		
8.6 hours @ \$140.00 per hour	\$	<u>1,204.00</u>

MONTHLY MEETING PREPARATION

Preparation of monthly memorandum for BCWMC meeting; reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with Bassett Creek Recording Administrator; conference call with BCWMC Chair regarding meeting agenda; communications with Bassett Creek Recording Administrator; internal meetings regarding agenda, to-do list and meeting packet and February 18, 2010 meeting; prepared permit figures; email correspondence to Chair Loomis and Sue Virnig regarding biotic index monitoring charges; correspondence regarding Northwood Lake wetland classification; e-mail exchanges with Howard Markus and Pam Anderson; preparation and review of approved 2010 budgets and 2009 year end invoice and budgets.

James P. Herbert, Principal Engineer/Scientist 13.5 hours @ \$140.00 per hour	\$ 1,890.00
Leonard J. Kremer, Principal Engineer/Scientist 4.7 hours @ \$160.00 per hour	\$ 752.00
Henry M. Runke, Principal Engineer/Scientist 1.0 hours @ \$165.00 per hour	\$ 165.00
Karen L. Chandler, Senior Consultant 14.6 hours @ \$140.00 per hour	\$ 2,044.00
Michael B. Strong, Engineer/Scientist 0.2 hours @ \$70.00 per hour	\$ 14.00
Technicians/Administrative	\$ 187.50
Expenses (postage)	\$ 32.30
Subtotal, Monthly Memorandums	\$ 5,084.80

TAC MEETING PREPARATION

Preparation for March 4, 2010 TAC meeting; reviewed agenda and coordination with Amy and MPCA; prepared write-up for CIP agenda item, reviewed maintenance responses from cities.

Karen L. Chandler, Senior Consultant 2.5 hours @ \$140.00 per hour	\$ 350.00
Subtotal, TAC Meeting Preparation	\$ 350.00

Subtotal Technical Services \$ **8,189.80**

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.

Trustone Federal Credit Union

Correspondence with applicant and City regarding proposed modifications to approved plans.

James P. Herbert, Principal Engineer/Scientist 0.6 hours @ \$140.00 per hour	\$ 84.00
Subtotal, Trustone Federal Credit Union	\$ 84.00

South Shore Drive Reconstruction/Bridge

Correspondence with Mn/DNR and City of Plymouth Staff; reviewed DNR permit application for South Shore Drive Bridge replacement; prepared BCWMC memorandum; prepared letter of recommendation to Plymouth/DNR; reviewed HEC II model information along reach of Bassett Creek.

James P. Herbert, Principal Engineer/Scientist	
13.7 hours @ \$140.00 per hour	\$ 1,918.00
Karen L. Chandler, Senior Consultant	
0.7 hours @ \$140.00 per hour	\$ 98.00
Subtotal, South Shore Drive Reconstruction/Bridge	\$ 2,016.00

Golden Valley 2010 Pavement Mgmt Project

Correspondence with City of Golden Valley Staff and its consultant; reviewed grading, drainage and erosion control plans; reviewed Golden Valley Surface Water Management Plan regarding project area; reviewed potential improvements of downstream water quality facilities; prepared BCWMC memorandum; prepared letter of recommendation to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
14.3 hours @ \$140.00 per hour	\$ 2,002.00
Karen L. Chandler, Senior Consultant	
0.5 hours @ \$140.00 per hour	\$ 70.00
Michael B. Strong, Engineer/Scientist	
0.3 hours @ \$70.00 per hour	\$ 21.00
Subtotal, GV 2010 Pavement Mgmt Project	\$ 2,093.00

Wirth Park Pedestrian Bridge

Several telephone calls with Met Counsel, City of Golden Valley and HDR staff; reviewed proposed bridge replacement plan and provided preliminary recommendations; reviewed revised drawings; reviewed HEC II model along the creek at Wirth Golf Course; prepared BCWMC memorandum; prepared letter of recommendation to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
10.7 hours @ \$140.00 per hour	\$ 1,498.00
Leonard J. Kremer, Principal Engineer/Scientist	
1.1 hours @ \$160.00 per hour	\$ 176.00
Karen L. Chandler, Senior Consultant	
1.4 hours @ \$140.00 per hour	\$ 196.00
Sarah Stratton, Senior Consultant	
2.0 hours @ \$115.00 per hour	\$ 230.00
Michael B. Strong, Engineer/Scientist	
0.3 hours @ \$70.00 per hour	\$ 21.00
Subtotal, Wirth Park Pedestrian Bridge	\$ 2,121.00

Subtotal Plat Review	\$ 6,314.00
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COMMISSION MEETINGS

Attended February 18, 2010 Commission meeting.

Karen L. Chandler, Senior Consultant	
4.5 hours @ \$140.00 per hour	\$ 630.00
Subtotal, Commission Meetings	\$ 630.00

SURVEYS AND STUDIES

Coordinated and performed February sampling of Twin Lake; prepared water sample jars and delivered samples to laboratory; organized field data. Reviewed drawings and coordinated with Minnesota Ballpark Authority regarding easement issues.

Leonard J. Kremer, Principal Engineer/Scientist	
5.3 hours @ \$160.00 per hour	\$ 848.00
Karen L. Chandler, Senior Consultant	
0.5 hours @ \$140.00 per hour	\$ 70.00
Technicians/Administrative	\$ 704.00
Expenses (mileage/2WD field vehicle/ice auger/ WQ meter)	\$ 99.50
Subtotal, Surveys and Studies	\$ 1,721.50

WATER QUALITY MONITORING

Preparation of final edits to 2009 Lake Water Quality Study Report.

Karen L. Chandler, Senior Consultant	
1.6 hours @ \$140.00 per hour	\$ 224.00
Subtotal, Water Quality Monitoring	\$ 224.00

WATER QUANTITY

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

Technicians/Administrative	\$ 344.00
Expenses (mileage/2WD vehicle)	\$ 48.50
Subtotal, Water Quantity	\$ 392.50

WATERSHED INSPECTION

Coordination with City of Minneapolis regarding its inspection program.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$140.00 per hour	\$ 70.00

Technicians/Administrative	\$ 192.00
Subtotal, Watershed Inspection	\$ 262.00

FLOOD CONTROL PROJECT INSPECTION

Correspondence with municipalities and Corps of Engineers; prepared field recording documents; prepared field records for double box culverts inspection; reduced field notes following inspection; prepared and labeled inspection photographs; prepared draft memorandum regarding Bassett Creek Flood Structures; prepared double box culvert inspection report; prepared annual flood control features inspection report.

James P. Herbert, Principal Engineer/Scientist 6.0 hours @ \$140.00 per hour	\$ 840.00
Jacob Burggraff, Senior Consultant 22.8 hours @ \$115.00 per hour	\$ 2,622.00
Richard Ver Strate, Senior Engineer/Scientist 6.3 hours @ \$115.00 per hour	\$ 724.50
Whitney Eriksson, Engineer/Scientist 1.8 hours @ \$85.00 per hour	\$ 153.00
Whitney Eriksson, Engineer/Scientist 3.0 hours @ \$90.00 per hour	\$ 270.00
Alicia Duncan, Communication Specialist 1.1 hours @ \$90.00 per hour	\$ 99.00
Subtotal, Flood Control Project Inspection	\$ 4,708.50

REVIEW MUNICIPAL PLANS

Communications with city of Robbinsdale and review of its Local Surface Water Management Plan (LSWMP); prepared review comments for BCWMC meeting.

Karen L. Chandler, Senior Consultant 5.2 hours @ \$140.00 per hour	\$ 728.00
Sterling G. Williams, Senior Engineer/Scientist 0.7 hours @ \$95.00 per hour	\$ 66.50
Katherine Wenigmann, Engineer/Scientist 10.8 hours @ \$90.00 per hour	\$ 972.00
Subtotal, Municipal Plans	\$ 1,766.50

TOTAL ENGINEERING \$ **24,208.80**

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

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

Expenses (B&W/color copies/postage)	\$	146.17
Catering (BCWMC meeting date)	\$	<u>-0-</u>
TOTAL SECRETARIAL SERVICES EXPENSES	\$	146.17

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

WOMP

Coordination with Met Council regarding rating curve at WOMP station; performed rating curve analysis and modified curve using newest stage-flow measurements.

Christopher Bonick, Senior Engineer/Scientist 14.0 hours @ \$105.00 per hour	\$	<u>1,470.00</u>
Subtotal, Public Relations/WOMP	\$	1,470.00

TOTAL PUBLIC RELATIONS/WOMP	\$	1,470.00
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CAPITAL IMPROVEMENT PROJECTS

W MEDICINE LAKE PK POND

Reviewed submittal from City of Plymouth and prepared recommendation for payment

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$140.00 per hour	\$	<u>210.00</u>
Subtotal, W Medicine Lake Park Pond	\$	210.00

PLYMOUTH CREEK RESTORATION PROJECT (2010 CR)

Calls from BWSR staff regarding grant award, contracting, and future process; prepared memo for February Commission meeting regarding clean water fund grant award and future process.

Karen L. Chandler, Senior Consultant 1.6 hours @ \$140.00 per hour	\$	<u>224.00</u>
Subtotal, Plymouth Creek Restoration Project	\$	224.00

RESOURCE MANAGEMENT PLAN (RMP)

Coordination with Corps of Engineers (COE) regarding final RMP report and pre-application protocols; prepared memorandum for meeting packet.

Karen L. Chandler, Senior Consultant	
1.1 hours @ \$140.00 per hour	\$ 154.00
Jeffrey T. Lee, Senior Consultant	
7.0 hours @ \$130.00 per hour	\$ 910.00
Subtotal, Resource Management Plan	\$ 1,064.00

CRYSTAL-REGENT AVENUE (2010 CR)

Calls from BWSR staff regarding grant award, contracting, and future process. Prepared memo for February Commission meeting regarding clean water fund grant award and future process

Karen L. Chandler, Senior Consultant	
1.5 hours @ \$140.00 per hour	\$ 210.00
Subtotal, Crystal-Regent Avenue (2010 CR)	\$ 210.00

DULUTH STREET – CRYSTAL (2011 CR)

Prepared memo for February Commission meeting regarding impact of grant funds on CIP schedule and moving North Branch project up earlier in schedule

Karen L. Chandler, Senior Consultant	
1.0 hours @ \$140.00 per hour	\$ 140.00
Subtotal, Duluth Street – Crystal (2011 CR)	\$ 140.00

TOTAL CAPITAL IMPROVEMENT PROJECTS \$ 1,848.00

TMDL STUDIES

SWEENEY LAKE TMDL

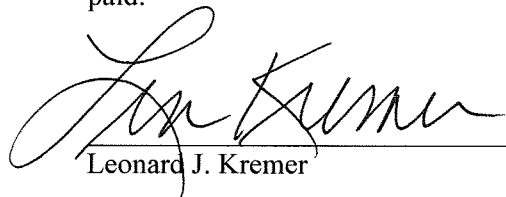
Coordination regarding Sweeney Lake TMDL; communication with SEH (Ron Leaf); coordination with MPCA; data collection and graphing of average spring, summer, fall TP concentration in lakes after proposed alum treatment; reviewed SEH meeting summary memo and other materials; preparation for TMDL meeting with MPCA; prepared written description of modeling.

Leonard J. Kremer, Principal Engineer/Scientist 7.0 hours @ \$160.00 per hour	\$ 1,120.00
Karen L. Chandler, Senior Consultant 0.5 hours @ \$140.00 per hour	\$ 70.00
Keith M. Pilgram, Senior Consultant 30.2 hours @ \$125.00 per hour	\$ 3,775.00
Brian Huser, Senior Engineer/Scientist 1.0 hours @ \$110.00 per hour	\$ 110.00
Expenses (mileage)	\$ <u>10.50</u>
Subtotal, Sweeney Lake TMDL	\$ 5,085.50
TOTAL TMDL STUDIES	\$ 5,085.50

SUMMARY TOTALS

Total Engineering	\$ 24,208.80
Total Secretarial Services Expenses	\$ 146.17
Total Public Relations	\$ 1,470.00
Total Capital Improvement Projects	\$ 1,848.00
Total TMDL Studies	\$ <u>5,085.50</u>
TOTAL PAYABLE	\$ 32,758.47

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