

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

Page # 1  
Invoice # 23270051-2013 -2  
Project # 23/27-0051  
Client # 59  
April 5, 2013

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
March 2, 2013 through March 29, 2013

**ENGINEERING**

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities, developers in the watershed, and interested citizens; coordination with recording administrator regarding post-meeting tasks; preparation of new watershed map for presentations at BCWMC meetings; processed sub-watershed data request by City of New Hope; information request from Golden Valley resident regarding depth to bedrock; coordination with New Hope staff and Golden Valley regarding CIP fact sheets, including review and suggested revisions to CIP fact sheets; provided grant tracking information to administrator; communications with Hennepin County and Golden Valley staff; prepared map of 2015 - 2019 CIP projects and emailed to administrator; meeting with administrator regarding meeting agendas; communications with Commissioner Hoshal and administrator regarding Twin Lake fishery; internal meeting regarding FEMA mapping; communications with Golden Valley staff regarding CIP process; communications with MPRB, City of Plymouth and TRPD regarding water quality monitoring in BCWMC; reviewed 2013 budgets.

Leonard J. Kremer, Principal Engineer/Scientist	
3.9 hours @ \$180.00 per hour .....	\$ 702.00
James P. Herbert, Principal Engineer/Scientist	
4.9 hours @ \$160.00 per hour .....	\$ 784.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
12.6 hours @ \$150.00 per hour .....	\$ 1,890.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I	
8.2 hours @ \$65.00 per hour .....	\$ 533.00
Technicians/Administrative .....	\$ 273.00
Expenses (Color plotting) .....	\$ 74.00
<i>Subtotal, Technical Services .....</i>	<i>\$ 4,256.00</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments and review requirements; provided watershed hydraulic information, flood profiles and BCWMC development requirements to

applicants; revised 2013 active project list; correspondence with consultant regarding Plymouth Rainbow Foods site; call from developer regarding project in Minneapolis; call from MFRA regarding BCWMC requirements and reviewed historical drawings for site; phone call with Paramount Engineering regarding Plymouth site; phone conversation regarding proposed Macy's renovation and Ridgedale pond capacity; reviewed historical comps and provided to applicant for Plymouth site.

James P. Herbert, Principal Engineer/Scientist	
2.0 hours @ \$160.00 per hour .....	\$ 320.00
Technicians/Administrative .....	\$ 560.50
Expenses (Copies/prints) .....	\$ 1.00
<i>Subtotal, Preliminary Site Review/Correspondence .....</i>	<i>\$ 881.50</i>

#### MONTHLY MEETING PREPARATION

Reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with recording administrator; communications with administrator and recording administrator; internal meetings and coordination with administrator and recording administrator regarding agenda, to-do list and meeting packet for March 2013 meeting; pre-meeting conference call with administrator; reviewed proposed 8410 rules revisions and prepared memo for March Commission meeting; communications with administrator regarding actions for agenda items, and administrators memo.

James P. Herbert, Principal Engineer/Scientist	
8.8 hours @ \$160.00 per hour .....	\$ 1,408.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
23.1 hours @ \$150.00 per hour .....	\$ 3,465.00
Gregory J. Wilson, Engineer/Scientist/Specialist III	
0.5 hours @ \$145.00 per hour .....	\$ 72.50
Sterling G. Williams, Engineer/Scientist/Specialist II	
1.2 hours @ \$110.00 per hour .....	\$ 132.00
Technicians/Administrative .....	\$ 340.00
<i>Subtotal, Monthly Meeting Preparation .....</i>	<i>\$ 5,417.50</i>

#### WETLAND ISSUES

Submitted 2012 WCA Annual Reporting Form to BWSR.

Karen S. Wold, Engineer/Scientist/Specialist II	
0.7 hours @ \$105.00 per hour .....	\$ 73.50
<i>Subtotal, Wetland Issues .....</i>	<i>\$ 73.50</i>

#### PROPERTY FLOODPLAIN REVIEW

Reviewed floodplain issue for Golden Valley and prepared email; reviewed FEMA floodplain for property at 1121 Idaho Avenue North.

James P. Herbert, Principal Engineer/Scientist	
1.2 hours @ \$160.00 per hour .....	\$ 192.00

Rita W. Weaver, Engineer/Scientist/Specialist II  
0.4 hours @ \$120.00 per hour.....\$ 48.00  
*Subtotal, Property Floodplain Review.....\$ 240.00*

#### TAC MEETING PREPARATION

Emailed draft April TAC agenda to administrator and TAC chair; prepare meeting agenda and background materials and attachments and email to TAC; communications with administrator.

Karen L. Chandler, Engineer/Scientist/Specialist III  
6.8 hours @ \$150.00 per hour.....\$ 1,020.00  
*Subtotal, TAC Meeting Preparation .....\$ 1,020.00*  
*Subtotal Technical Services .....\$ 11,888.50*

#### PLAT REVIEW

Note: Projects in **Bold** have provided review fees to offset review costs. Projects not in Bold are either in a preliminary stage or do not require application fee.

#### Crossroads Commons – Frontage Road

Responded to Commissioner Hoshal's inquiry regarding site construction.

Karen L. Chandler, Engineer/Scientist/Specialist III  
0.5 hours @ \$150.00 per hour.....\$ 75.00  
Rita W. Weaver, Engineer/Scientist/Specialist II  
0.3 hours @ \$120.00 per hour.....\$ 36.00  
*Subtotal, Crossroads Commons – Frontage Road.....\$ 111.00*

#### Boone Avenue Convenience Center and Retail

Correspondence with applicant regarding status of permit and requirements.

James P. Herbert, Principal Engineer/Scientist  
0.5 hours @ \$160.00 per hour .....\$ 80.00  
*Subtotal, Boone Ave Convenience Ctr and Retail.....\$ 80.00*

#### Golden Valley 2013 PMP

Telephone conversations and emails with applicant; reviewed grading, drainage and erosion control plans; prepared letter to city of Golden Valley.

James P. Herbert, Principal Engineer/Scientist  
0.5 hours @ \$160.00 per hour .....\$ 80.00  
*Subtotal, Golden Valley 2013 PMP .....\$ 80.00*

**I-GV-461 Relief Force Main**

Telephone conversations and emails with applicant; reviewed revised grading, drainage and erosion control plans; prepared letter to city of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$160.00 per hour .....	\$ 160.00
Rita W. Weaver, Engineer/Scientist/Specialist II	
0.7 hours @ \$120.00 per hour .....	\$ 84.00
<i>Subtotal, I-GV-461 Relief Force Main.....</i>	<i>\$ 244.00</i>

**The Tiburon (2013-1)**

Telephone conversations and emails with city of Golden Valley staff and applicant.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$160.00 per hour .....	\$ 80.00
<i>Subtotal, The Tiburon.....</i>	<i>\$ 80.00</i>

**McDonald's at Crossroads Commons (2013-2)**

Telephone conversations and emails with applicant; preliminary review of grading, drainage and erosion control plans for project in the city of Plymouth.

James P. Herbert, Principal Engineer/Scientist	
2.0 hours @ \$160.00 per hour .....	\$ 320.00
Rita W. Weaver, Engineer/Scientist/Specialist II	
1.0 hours @ \$120.00 per hour .....	\$ 120.00
<i>Subtotal, McDonald's at Crossroads Commons.....</i>	<i>\$ 440.00</i>

**Motorwerks MINI (2013-3)**

Telephone conversations and emails with applicant; review of grading, drainage and erosion control plans for project in the city of Golden Valley; prepared letter of recommendation.

James P. Herbert, Principal Engineer/Scientist	
1.5 hours @ \$160.00 per hour .....	\$ 240.00
Rita W. Weaver, Engineer/Scientist/Specialist II	
1.0 hours @ \$120.00 per hour .....	\$ 120.00
<i>Subtotal, Motorwerks MINI (2013-3).....</i>	<i>\$ 360.00</i>

**4900 Triton Drive (2013-4)**

Several telephone conversations and emails with applicant and City staff; preliminary review of grading, drainage and erosion control plans for project in the city of Golden Valley; prepared letter to city of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
3.2 hours @ \$160.00 per hour .....	\$ 512.00

Karen L. Chandler, Engineer/Scientist/Specialist III	
0.2 hours @ \$150.00 per hour .....	\$ 30.00
Rita W. Weaver, Engineer/Scientist/Specialist II	
3.4 hours @ \$120.00 per hour .....	\$ 408.00
<i>Subtotal, 4900 Triton Drive.....</i>	<i>\$ 950.00</i>

#### SW LRT

Calls from SWLRT consultant requesting information regarding Bassett Creek tunnel; provided figures and mapping in response to data request for SWLRT project; attended meeting with SWLRT staff and with LRT consultant regarding information requested.

Leonard J. Kremer, Principal Engineer/Scientist	
2.0 hours @ \$180.00 per hour .....	\$ 360.00
James P. Herbert, Principal Engineer/Scientist	
1.5 hours @ \$160.00 per hour .....	\$ 240.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
2.9 hours @ \$150.00 per hour .....	\$ 435.00
Gregory J. Wilson, Engineer/Scientist/Specialist III	
4.1 hours @ \$145.00 per hour .....	\$ 594.50
Joshua R. Vosejka, Engineer/Scientist/Specialist I	
5.0 hours @ \$65.00 per hour .....	\$ 325.00
<i>Subtotal, SW LRT.....</i>	<i>\$ 1,954.50</i>

#### Sagamore Street Reconstruction (2013-6)

Initial review of project plans.

Technicians/Administrative.....	\$ 40.00
<i>Subtotal, Sagamore Street Reconstruction .....</i>	<i>\$ 40.00</i>

#### Hennepin County 911 Facility (2013-7)

Initial review of project plans.

Technicians/Administrative.....	\$ 56.00
<i>Subtotal, Hennepin County 911 Facility.....</i>	<i>\$ 56.00</i>

#### Kohl's at Rockford Plaza (2013-8)

Coordination with applicant and initial review of project plans.

James P. Herbert, Principal Engineer/Scientist	
1.5 hours @ \$160.00 per hour .....	\$ 240.00
Technicians/Administrative.....	\$ 56.00
<i>Subtotal, Kohl's at Rockford Plaza.....</i>	<i>\$ 296.00</i>

**MnDOT TH 169 Mill and Overlay (2013-9)**

Coordination with MnDOT and initial review of TH 169 improvements project plans.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$160.00 per hour .....	\$ 160.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
0.2 hours @ \$150.00 per hour.....	\$ 30.00
Technicians/Administrative.....	\$ 40.00
<i>Subtotal, MnDOT TH 169 Mill and Overlay.....</i>	<i>\$ 230.00</i>

**Sunshine Factory (2013-10)**

Correspondence with applicant and city staff; reviewed historical Rockford Road Plaza plans and provided data to applicant; preliminary review of site redevelopment plans.

James P. Herbert, Principal Engineer/Scientist	
1.7 hours @ \$160.00 per hour .....	\$ 272.00
<i>Subtotal, Sunshine Factory.....</i>	<i>\$ 272.00</i>

**HOM Furniture Dock Expansion (2013-11)**

Correspondence with applicant and city staff; reviewed historical HOM Furniture plans and provided data to applicant; preliminary review of site improvement plans.

James P. Herbert, Principal Engineer/Scientist	
2.5 hours @ \$160.00 per hour .....	\$ 400.00
<i>Subtotal, HOM Furniture Dock Expansion.....</i>	<i>\$ 400.00</i>
<i>Subtotal Plat Review .....</i>	<i>\$ 5,593.50</i>

**COMMISSION AND TAC MEETINGS**

Attended March 21 Commission meeting and March 25 Next Generation Plan Steering Committee meeting.

Karen L. Chandler, Engineer/Scientist/Specialist III	
6.4 hours @ \$150.00 per hour.....	\$ 960.00
Expenses (Mileage).....	\$ 4.52
<i>Subtotal, Commission Meetings.....</i>	<i>\$ 964.52</i>

**SURVEYS AND STUDIES – FIS Review**

Review draft maps and compare flood elevations to BCWMC flood elevations; internal meetings regarding FEMA FIS information and specific crossings and review of inundation flood areas; communication with MDNR regarding review of Hennepin County FEMA maps.

Leonard J. Kremer, Principal Engineer/Scientist	
4.0 hours @ \$180.00 per hour .....	\$ 720.00



Jeffrey D. Weiss, Engineer/Scientist/Specialist II	
3.0 hours @ \$110.00 per hour .....	\$ 330.00
John E. McCarthy, Engineer/Scientist/Specialist I	
9.4 hours @ \$80.00 per hour .....	\$ 752.00
<i>Subtotal, Surveys and Studies.....</i>	<i>\$ 1,802.00</i>

#### WATER QUALITY MONITORING

Prepared final biotic index report; responded to administrator's request regarding potential highway salt runoff into Medicine Lake, including internal meeting regarding road salt discharge from Highway 169 to East Medicine Lake Park pond bypass and Medicine Lake, communications with Plymouth staff, and review of East Medicine Lake Park record drawings.

Henry M. Runke, Principal Engineer/Scientist	
1.0 hours @ \$170.00 per hour .....	\$ 170.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
5.3 hours @ \$150.00 per hour .....	\$ 795.00
Gregory J. Wilson, Engineer/Scientist/Specialist III	
2.5 hours @ \$145.00 per hour .....	\$ 362.50
Margaret R. Rattei, Engineer/Scientist/Specialist II	
4.1 hours @ \$120.00 per hour .....	\$ 492.00
Technicians/Administrative.....	\$ 177.50
<i>Subtotal, Water Quality Monitoring .....</i>	<i>\$ 1,997.00</i>

#### WATER QUANTITY

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

Technicians/Administrative.....	\$ 425.00
Expenses (Mileage/2WD vehicle) .....	\$ 51.38
<i>Subtotal, Water Quantity.....</i>	<i>\$ 476.38</i>

#### WATERSHED INSPECTION

Preparation for 2013 inspections.

Technicians/Administrative.....	\$ 484.50
<i>Subtotal, Watershed Inspection .....</i>	<i>\$ 484.50</i>

**TOTAL ENGINEERING.....\$ 23,206.40**

<b>SECRETARIAL SERVICES</b>
-----------------------------

#### SECRETARIAL SERVICES EXPENSES

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

Expenses (B&W/color copies/postage).....\$ 1,056.09

**TOTAL SECRETARIAL SERVICES EXPENSES .....\$ 1,056.09**

<b>PLANNING</b>
-----------------

WATERSHED-WIDE P8 WATER QUALITY MODEL

Revised watershed divides and performed modeling updates; prepared technical memorandum/report.

Gregory J. Wilson, Engineer/Scientist/Specialist III  
3.0 hours @ \$145.00 per hour .....\$ 435.00

Joshua R. Vosejpka, Engineer/Scientist/Specialist I  
3.8 hours @ \$65.00 per hour .....\$ 247.00

*Subtotal, Watershed-wide P8 Water Quality Model .....\$ 682.00*

NEXT GENERATION PLAN

Coordination with administrator; set up Next Generation Plan schedule/Gantt chart with respect to TAC tasks and schedule; set up survey and post on BCWMC web site; internal discussion regarding land and water resource inventory; implement survey pop-up feature on webpage.

Karen L. Chandler, Engineer/Scientist/Specialist III  
1.8 hours @ \$150.00 per hour .....\$ 270.00

Sterling G. Williams, Engineer/Scientist/Specialist II  
4.3 hours @ \$110.00 per hour .....\$ 473.00

Technicians/Administrative.....\$ 177.50

Expenses (plotting) .....\$ 4.80

*Subtotal, Next Generation Plan .....\$ 925.30*

**TOTAL PLANNING .....\$ 1,607.30**

<b>ANNUAL REPORT</b>
----------------------

ANNUAL REPORT

Preparation of draft 2012 annual report.

James P. Herbert, Principal Engineer/Scientist  
1.5 hours @ \$160.00 per hour .....\$ 240.00

Karen L. Chandler, Engineer/Scientist/Specialist III  
6.8 hours @ \$150.00 per hour.....\$ 1,020.00

*Subtotal, Annual Report .....\$ 1,260.00*

**TOTAL ANNUAL REPORT .....\$ 1,260.00**



<b>WEBSITE</b>
----------------

<b>TOTAL WEBSITE.....</b>	<b>\$</b>	<b>0.00</b>
---------------------------	-----------	-------------

<b>WATERSHED OUTLET MONITORING PROGRAM (WOMP)</b>
---

<b>TOTAL WOMP.....</b>	<b>\$</b>	<b>0.00</b>
------------------------	-----------	-------------

<b>CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)</b>
---

LAKEVIEW PARK POND

Communications with Golden Valley staff; reviewed technical memo regarding design issues at Lakeview Park Pond site.

Karen L. Chandler, Engineer/Scientist/Specialist III		
2.0 hours @ \$150.00 per hour .....	\$	300.00
<i>Subtotal, Lakeview Park Pond.....</i>	<i>\$</i>	<i>300.00</i>

PLYMOUTH CREEK RESTORATION (2010 CR)

Review of project files to address BWSR reporting questions; grant reporting.

James P. Herbert, Principal Engineer/Scientist		
0.5 hours @ \$160.00 per hour .....	\$	80.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II		
0.5 hours @ \$110.00 per hour .....	\$	55.00
<i>Subtotal, Plymouth Creek Restoration (2010 CR) .....</i>	<i>\$</i>	<i>135.00</i>

CRYSTAL-REGENT AVENUE (2010 CR)

Performed BMP review for grant reporting, finalized reporting in eLINK, phone call with BWSR staff regarding grant closeout.

Jeffrey D. Weiss, Engineer/Scientist/Specialist II		
1.5 hours @ \$110.00 per hour .....	\$	165.00
Amy R. Mikus, Engineer/Scientist/Specialist I		
4.3 hours @ \$85.00 per hour .....	\$	365.50
<i>Subtotal, Crystal-Regent Avenue .....</i>	<i>\$</i>	<i>530.50</i>

WISCONSIN AVENUE – CRYSTAL (2011CR)

Prepared responses to Commissioner Welch; project close-out.

Jeffrey T. Lee, Principal Engineer/Scientist		
0.3 hours @ \$140.00 per hour .....	\$	42.00

Jeffrey D. Weiss, Engineer/Scientist/Specialist II  
1.0 hours @ \$110.00 per hour .....\$ 110.00  
*Subtotal, Wisconsin Avenue – Crystal (2011CR).....\$ 152.00*

NORTH BRANCH (2011CR-NB)

Project close-out.

Jeffrey D. Weiss, Engineer/Scientist/Specialist II  
1.0 hours @ \$110.00 per hour .....\$ 110.00  
*Subtotal, North Branch (2011CR-NB) .....\$ 110.00*

WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Grant administration: prepared website write-up update; internal meeting and prepared website project description; eLINK grant reporting; communications with BWSR staff regarding grant reporting requirements.

Karen L. Chandler, Engineer/Scientist/Specialist III  
1.0 hours @ \$150.00 per hour .....\$ 150.00  
Amy R. Mikus, Engineer/Scientist/Specialist I  
5.5 hours @ \$85.00 per hour .....\$ 467.50  
*Subtotal, Wirth Lake Outlet Modification .....\$ 617.50*

CEDAR LAKE ROAD TO GOLDEN VALLEY ROAD, 2012 MAIN STEM

Grant administration: prepared website write-up update; internal meeting and prepared website project description eLINK grant reporting; communications with BWSR staff regarding grant reporting requirements; coordination with WSB on behalf of MPRB.

James P. Herbert, Principal Engineer/Scientist  
2.0 hours @ \$160.00 per hour .....\$ 320.00  
Karen L. Chandler, Engineer/Scientist/Specialist III  
2.2 hours @ \$150.00 per hour.....\$ 330.00  
Amy R. Mikus, Engineer/Scientist/Specialist I  
5.5 hours @ \$85.00 per hour .....\$ 467.50  
Joshua R. Vosejpka, Engineer/Scientist/Specialist I  
0.2 hours @ \$65.00 per hour .....\$ 13.00  
*Subtotal, Cedar Lk Rd to Golden Valley Rd, 2012 Main Stem.....\$ 1,130.50*

SCHAPER POND ENHANCEMENT

Communications with Hennepin County and BWSR staff regarding major plan amendment approval process; provide feasibility studies to Hennepin County staff and follow-up communications; call to Chair Black regarding county's extension request.

Karen L. Chandler, Engineer/Scientist/Specialist III  
1.4 hours @ \$150.00 per hour.....\$ 210.00  
*Subtotal, Schaper Pond Enhancement .....\$ 210.00*

TWIN LAKE ALUM TREATMENT PROJECT (TW-2)

Communications with Hennepin County and BWSR staff regarding major plan amendment; communications regarding Twin Lake fishery, including carp impacts on alum treatment.

Karen L. Chandler, Engineer/Scientist/Specialist III	
3.4 hours @ \$150.00 per hour .....	\$ 510.00
Amy R. Mikus, Engineer/Scientist/Specialist I	
2.2 hours @ \$85.00 per hour .....	\$ 187.00
<i>Subtotal, Twin Lake Alum Treatment Project (TW-2).....</i>	<i>\$ 697.00</i>

BRIARWOOD – DAWNVIEW POND

Communications regarding major plan amendment approval process; call from Commissioner Welch regarding feasibility study; preliminary review of feasibility study and provide comments to administrator and Golden Valley staff; follow-up communications with Hennepin County and BWSR staff.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$160.00 per hour .....	\$ 160.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
2.3 hours @ \$150.00 per hour .....	\$ 345.00
<i>Subtotal, Briarwood – Dawnview Pond .....</i>	<i>\$ 505.00</i>

**TOTAL CAPITAL IMP PROJECTS (Tax Levy) .....\$ 4,387.50**

<b>CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)</b>
--

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

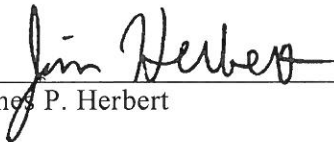
<b>TMDL STUDIES</b>
---------------------

**TOTAL TMDL STUDIES.....\$ 0.00**

<b>SUMMARY TOTALS</b>
-----------------------

<b>Total Engineering.....</b>	<b>\$ 23,206.40</b>
<b>Total Secretarial Services Expenses .....</b>	<b>\$ 1,056.09</b>
<b>Total Planning.....</b>	<b>\$ 1,607.30</b>
<b>Total Annual Report/Website.....</b>	<b>\$ 1,260.00</b>
<b>Total WOMP .....</b>	<b>\$ 0.00</b>
<b>Total Capital Improvement Projects (Tax Levy) .....</b>	<b>\$ 4,387.50</b>
<b>Total Capital Improvement Projects (Maintenance Funds) .....</b>	<b>\$ 0.00</b>
<b>Total TMDL Studies .....</b>	<b>\$ 0.00</b>
 <b>TOTAL PAYABLE .....</b>	 <b>\$ 31,517.29</b>

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

  
\_\_\_\_\_  
James P. Herbert