



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

Page # 1  
Invoice # 23270051-2013-12  
Project # 23/27-0051  
Client # 59  
February 7, 2014

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
December 28, 2013 through January 31, 2014

**ENGINEERING**

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities and interested citizens; communications with administrator regarding BWSR's One Watershed One Plan program, Medicine Lake summit meeting, 2015 CIP project process, and upcoming 2014 BWSR biennial budget review request; communications with Golden Valley staff regarding treatment potential for possible future project in Medley Park, including review of subwatersheds tributary to Medicine Lake, review of Brogger Circle Drainage Study, and providing phosphorus removal estimate; prepare for and attend January 22 meeting with administrator, Golden Valley staff and Plymouth staff regarding CIP project process improvements, including internal meeting and materials preparation; meeting with administrator on January 24 regarding miscellaneous questions on ongoing projects; provide information to Golden Valley staff regarding two-dimensional hydrologic and hydraulic modeling; communications with mapping consultants and administrator regarding base map needs and sharing of GIS files for Commission map project, and submit GIS files to mapping consultant; review BWSR clean water fund grant recommendations; communications with administrator and Golden Valley staff regarding local government water roundtable meeting about groundwater management; internal staff meeting regarding response to draft impaired waters listings for chloride and bacteria; communications with Golden Valley staff regarding Commission involvement in 2016 CIP project process; and print new base map.

James P. Herbert, Principal Engineer/Scientist	
3.0 hours @ \$165.00 per hour.....	\$ 495.00
Leonard J. Kremer, Principal Engineer/Scientist	
1.5 hours @ \$180.00 per hour.....	\$ 270.00
Karen L. Chandler, Consultant/Advisor	
30.2 hours @ \$155.00 per hour.....	\$ 4,681.50
Gregory J. Wilson, Engineer/Scientist/Specialist III	
4.5 hours @ \$145.00 per hour.....	\$ 652.50
Rita W. Weaver, Engineer/Scientist/Specialist III	
0.8 hours @ \$125.00 per hour.....	\$ 100.00

Joshua R. Vosejpka, Engineer/Scientist/Specialist I	
1.3 hours @ \$70.00 per hour .....	\$ 91.00
Technicians/Administrative .....	\$ 552.00
Expenses (Mileage/color plotter) .....	\$ 21.80
<i>Subtotal, Technical Services .....</i>	<i>\$ 6,863.30</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; communications with Plymouth staff regarding maintenance at Parkers Lake inlet and review Commission files regarding inlet; prepare for and attend meeting with Plymouth staff regarding Vicksburg Lane project and follow-up project; communications with Crystal staff regarding development issues and BCWMC floodplain requirements for properties adjacent to the North Branch Bassett Creek; communications with consultant regarding parking expansion at Golden Valley site; communications with Minnetonka staff regarding project in City outside of BCWMC boundary; provide Bassett Creek centerline information to consultant, per request.

James P. Herbert, Principal Engineer/Scientist	
6.5 hours @ \$165.00 per hour .....	\$ 1,072.50
Karen L. Chandler, Consultant/Advisor	
3.7 hours @ \$155.00 per hour .....	\$ 573.50
Rita W. Weaver, Engineer/Scientist/Specialist III	
2.4 hours @ \$125.00 per hour .....	\$ 300.00
Expenses (Mileage) .....	\$ 19.04
<i>Subtotal, Preliminary Site Review/Correspondence .....</i>	<i>\$ 1,965.04</i>

#### MONTHLY MEETING PREPARATION

Communications/coordination with administrator and recording administrator regarding agenda and meeting packet for January 2014 meeting; communications with administrator regarding January meeting agenda; prepare memo for January Commission meeting regarding Medicine Lake outlet modification study needs and planning-level budget; prepare for January Commission meeting, including meeting with administrator and Vice Chair de Lambert regarding meeting agenda; communication with administrator regarding post-meeting tasks; and internal meeting regarding January Commission meeting.

James P. Herbert, Principal Engineer/Scientist	
7.5 hours @ \$165.00 per hour .....	\$ 1,237.50
Karen L. Chandler, Consultant/Advisor	
20.4 hours @ \$155.00 per hour .....	\$ 3,162.00
Rita W. Weaver, Engineer/Scientist/Specialist III	
2.8 hours @ \$125.00 per hour .....	\$ 350.00
<i>Subtotal, Monthly Meeting Preparation .....</i>	<i>\$ 4,749.50</i>

### WETLAND ISSUES

Prepare and submit 2013 WCA annual reporting form to BWSR.

James P. Herbert, Principal Engineer/Scientist	
0.2 hours @ \$165.00 per hour.....	\$ 33.00
Karen S. Wold, Engineer/Scientist/Specialist II	
0.5 hours @ \$110.00 per hour.....	\$ 55.00
<i>Subtotal, Wetland Issues.....</i>	<i>\$ 88.00</i>

### PROPERTY FLOODPLAIN REVIEW

Respond to floodplain information request from realtor for property at 8122 Golden Valley Road in Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
2.0 hours @ \$165.00 per hour.....	\$ 330.00
Karen L. Chandler, Consultant/Advisor	
1.3 hours @ \$155.00 per hour.....	\$ 201.50
Rita W. Weaver, Engineer/Scientist/Specialist III	
1.6 hours @ \$125.00 per hour.....	\$ 200.00
<i>Subtotal, Property Floodplain Review .....</i>	<i>\$ 731.50</i>

### TAC MEETING PREPARATION

Communications with administrator regarding January 7 TAC meeting agenda and materials; revise standards and triggers comparison table for January TAC meeting; prepare for January TAC meeting; prepare draft TAC memo to Commission and email to TAC; communications with administrator regarding TAC memo; and prepare final TAC memo for January Commission meeting packet.

James P. Herbert, Principal Engineer/Scientist	
2.2 hours @ \$165.00 per hour.....	\$ 363.00
Karen L. Chandler, Consultant/Advisor	
6.3 hours @ \$155.00 per hour.....	\$ 976.50
Sterling G. Williams, Engineer/Scientist/Specialist II	
1.8 hours @ \$115.00 per hour.....	\$ 207.00
<i>Subtotal, TAC Meeting Preparation.....</i>	<i>\$ 1,546.50</i>

<i>Subtotal Technical Services.....</i>	<i>\$ 15,943.84</i>
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### 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.

### **Room & Board Parking Lot Add'n (2013-32)**

Prepare for and attend meeting with applicant's representatives, including review of past materials; and follow-up communication with applicant regarding review status.

James P. Herbert, Principal Engineer/Scientist 2.0 hours @ \$165.00 per hour .....	\$ 330.00
Rita W. Weaver, Engineer/Scientist/Specialist III 1.9 hours @ \$125.00 per hour .....	\$ 237.50
<i>Subtotal, Room &amp; Board Parking Lot Add'n .....</i>	<i>\$ 567.50</i>
<i>Subtotal Plat Review .....</i>	<i>\$ 567.50</i>

### **COMMISSION AND TAC MEETINGS**

Attend January 7 TAC meeting, January 16 Commission meeting and January 27<sup>th</sup> Plan Steering Committee meeting.

James P. Herbert, Principal Engineer/Scientist 2.5 hours @ \$165.00 per hour .....	\$ 412.50
Karen L. Chandler, Consultant/Advisor 9.9 hours @ \$155.00 per hour .....	\$ 1,534.50
Expenses (Mileage) .....	\$ 5.60
<i>Subtotal, Commission Meetings .....</i>	<i>\$ 1,952.60</i>

### **SURVEYS AND STUDIES**

XP-SWMM Tutorial: Prepare draft XP-SWMM tutorial presentation; internal meeting to review draft presentation; finalize presentation, communications with administrator regarding attendees, prepare for tutorial including printouts and room preparation, and attend/present tutorial.

Rita W. Weaver, Engineer/Scientist/Specialist III 14.5 hours @ \$125.00 per hour .....	\$ 1,812.50
Technicians/Administrative .....	\$ 144.50
Expenses (Meals) .....	\$ 34.96
<i>Subtotal, Surveys and Studies .....</i>	<i>\$ 1,991.96</i>

### **WATER QUALITY MONITORING**

Perform trend analyses of water quality data, perform zooplankton/phytoplankton analyses and prepared tables, figures and text for report on 2013 monitoring program for Northwood Lake, and North and South Rice Ponds.

Margaret R. Rattei, Engineer/Scientist/Specialist II 47.1 hours @ \$120.00 per hour .....	\$ 5,652.00
Christopher J. Bonick, Engineer/Scientist/Specialist II 5.2 hours @ \$115.00 per hour .....	\$ 598.00

*Subtotal, Water Quality Monitoring.....\$ 6,250.00*

#### WATER QUANTITY

Measure and review lake level elevations as part of the lake-gauging program; surveyed vertical control for Highway 55 (Wirth Park) control structure benchmark.

Technicians/Administrative .....\$ 1,399.00

Expenses (Mileage/2WD vehicle).....\$ 93.68

*Subtotal, Water Quantity .....\$ 1,492.68*

**TOTAL ENGINEERING .....\$ 28,198.58**

#### **SECRETARIAL SERVICES**

##### SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including preparing PDFs.

Technicians/Administrative .....\$ 59.50

Expenses (Postage).....\$ 40.64

**TOTAL SECRETARIAL SERVICES EXPENSES .....\$ 100.14**

#### **PLANNING**

##### NEXT GENERATION PLAN

Review and edit December 16 Plan Steering Committee meeting notes; revise water quality, flooding and rate control, groundwater management, and erosion control policies for January 27 Plan Steering Committee meeting; meeting with administrator to review water quality standards and triggers of other WMOs and to review MIDS requirements and flowchart; email to Plan Steering Committee regarding Engineer's recommendation for BCWMC water quality standards; prepare for and attend January 27 Plan Steering Committee meeting; internal meeting regarding January Plan Steering Committee meeting; prepare table of priority water body standards; review references regarding buffers, internal meeting regarding buffers and develop draft buffer policy for Plan Steering Committee consideration.

James P. Herbert, Principal Engineer/Scientist  
8.2 hours @ \$165.00 per hour .....\$ 1,353.00

Karen L. Chandler, Consultant/Advisor  
18.7 hours @ \$155.00 per hour.....\$ 2,898.50

Gregory J. Wilson, Engineer/Scientist/Specialist III  
1.1 hours @ \$145.00 per hour .....\$ 159.50

Sterling G. Williams, Engineer/Scientist/Specialist II  
15.4 hours @ \$115.00 per hour.....\$ 1,771.00

Joshua R. Vosejpka, Engineer/Scientist/Specialist I	
0.3 hours @ \$70.00 per hour .....	\$ 21.00
Expenses (Color plotter/mileage/postage) .....	\$ 35.44
<i>Subtotal, Next Generation Plan .....</i>	<i>\$ 6,238.44</i>
<b>TOTAL PLANNING (Next Generation Plan) .....</b>	<b>\$ 6,238.44</b>

<b>PLANNING (Funded through Flood Control Project Long-term Maintenance Funds)</b>
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FLOOD CONTROL PROJECT – MAINTENANCE AND REPLACEMENT PLAN

Update as-built flood control project construction costs to reflect 2014 dollars and provide estimate of project replacement costs and assist in estimating rehabilitation costs; internal meetings, communications with counsel regarding BCWMC's flood control project maintenance responsibilities, including review of counsel's memo regarding project maintenance.

Leonard J. Kremer, Principal Engineer/Scientist	
5.0 hours @ \$180.00 per hour .....	\$ 900.00
Karen L. Chandler, Consultant/Advisor	
3.9 hours @ \$155.00 per hour .....	\$ 604.50
Joel N. Swenson, Engineer/Scientist/Specialist II	
5.0 hours @ \$120.00 per hour .....	\$ 600.00
Joseph A. Welna, Engineer/Scientist/Specialist II	
2.0 hours @ \$100.00 per hour .....	\$ 200.00
Andrew T. Dillon, Engineer/Scientist/Specialist I	
1.5 hours @ \$85.00 per hour .....	\$ 127.50
Technicians/Administrative .....	\$ 75.00
<i>Subtotal, Flood Control Project-Maintenance &amp; Repair Plan .....</i>	<i>\$ 2,507.00</i>
<b>TOTAL PLANNING (Maintenance Funds).....</b>	<b>\$ 2,507.00</b>

<b>ANNUAL REPORT</b>
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<b>TOTAL ANNUAL REPORT.....</b>	<b>\$ 0.00</b>
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<b>PUBLIC COMMUNICATIONS</b>
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<b>TOTAL PUBLIC COMMUNICATIONS .....</b>	<b>\$ 0.00</b>
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<b>WEBSITE</b>
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<b>TOTAL WEBSITE.....</b>	<b>\$</b>	<b>0.00</b>
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<b>WATERSHED OUTLET MONITORING PROGRAM (WOMP)</b>
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WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Provide WOMP station stage/discharge information to MPRB consultant to assist in drawdown calculations for Main Stem project in Wirth Park.

Christopher J. Bonick, Engineer/Scientist/Specialist II	
11.5 hours @ \$115.00 per hour.....	\$ 1,322.50
<i>Subtotal, Watershed Outlet Monitoring Program.....</i>	<i>\$ 1,322.50</i>

<b>TOTAL WOMP.....</b>	<b>\$</b>	<b>1,322.50</b>
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<b>CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)</b>
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WIRTH LAKE OUTLET MODIFICATION (WTH-4)

BWSR grant closeout tasks: prepare memo for January Commission meeting regarding final close-out of BWSR grant and final financial form, update documentation for website reporting, finalize grant tracking spreadsheet and eLINK reporting, complete grant reporting, email invoices and tracking spreadsheet to BWSR, internal meetings, communications with BWSR staff, and communications with administrator.

Karen L. Chandler, Consultant/Advisor	
3.2 hours @ \$155.00 per hour.....	\$ 496.00
Amy R. Mikus, Engineer/Scientist/Specialist I	
23.5 hours @ \$85.00 per hour.....	\$ 1,997.50
<i>Subtotal, Wirth Lake Outlet Modification (WTH-4).....</i>	<i>\$ 2,493.50</i>

CEDAR LAKE ROAD TO GOLDEN VALLEY ROAD, 2012 MAIN STEM (2012 CR)

Communications with MPRB consultant regarding Highway 55 rating curve; communications with and provide information to administrator regarding 50% plan set review and drawdown; communications with MPRB consultant regarding project schedule and 90% plan review; BWSR grant administration tasks: review existing project information in eLINK, create grant tracking spreadsheet, update information sheet for website reporting, update project summary, review reporting requirements, internal meeting regarding grant reporting and applying for next grant payment, and communications with administrator regarding grant reimbursement.

Coordination with and provided Highway 55 structure information to MPRB consultant.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$165.00 per hour.....	\$ 165.00

Karen L. Chandler, Consultant/Advisor	
3.3 hours @ \$155.00 per hour .....	\$ 511.50
Rita W. Weaver, Engineer/Scientist/Specialist III	
0.7 hours @ \$125.00 per hour .....	\$ 87.50
Amy R. Mikus, Engineer/Scientist/Specialist I	
5.5 hours @ \$85.00 per hour .....	\$ 467.50
<i>Subtotal, Cedar Lk Rd to Golden Valley Rd, 2012 Main Stem .....</i>	<i>\$ 1,231.50</i>

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 3,725.00**

<b>CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)</b>
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**SWEENEY LAKE OUTLET REPLACEMENT CIP**

Prepare for and attend meeting with Sweeney Lake residents, Golden Valley staff and administrator regarding Sweeney Lake outlet; review Sweeney Lake historic water levels; communications with the MDNR.

James P. Herbert, Principal Engineer/Scientist	
5.3 hours @ \$165.00 per hour .....	\$ 874.50
Michael R. Hoefs, Engineer/Scientist/Specialist II	
2.5 hours @ \$100.00 per hour .....	\$ 250.00
Technicians/Administrative .....	\$ 85.00
Expenses (Mileage) .....	\$ 8.40
<i>Subtotal, Sweeney Lake Outlet Replacement CIP .....</i>	<i>\$ 1,217.90</i>

**TOTAL CAPITAL IMPROVEMENT PROJECTS  
(Maintenance Funds) .....\$ 1,217.90**

<b>TMDL STUDIES</b>
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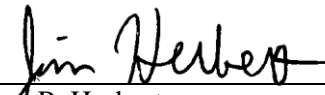
**TOTAL TMDL STUDIES .....\$ 0.00**



<b>SUMMARY TOTALS</b>
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<b>Total Engineering .....</b>	<b>\$ 28,198.58</b>
<b>Total Secretarial Services Expenses .....</b>	<b>\$ 100.14</b>
<b>Total Planning (Next Generation Plan) .....</b>	<b>\$ 6,238.44</b>
<b>Total Planning (Maintenance Funds) .....</b>	<b>\$ 2,507.00</b>
<b>Total Annual Report/Website/Public Communications .....</b>	<b>\$ 0.00</b>
<b>Total WOMP .....</b>	<b>\$ 1,322.50</b>
<b>Total Capital Improvement Projects (Tax Levy) .....</b>	<b>\$ 3,725.00</b>
<b>Total Capital Improvement Projects (Maintenance Funds).....</b>	<b>\$ 1,217.90</b>
<b>Total TMDL Studies.....</b>	<b>\$ 0.00</b>
 <b>TOTAL PAYABLE .....</b>	 <b>\$ 43,309.56</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.

  
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James P. Herbert