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engineering and environmental consultants



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

Page # 1  
Invoice # 23270051-2013 -11  
Project # 23/27-0051  
Client # 59  
January 6, 2014

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
November 30, 2013 through December 27, 2013

**ENGINEERING**

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities and interested citizens; communications with administrator regarding CIP project review process and Medicine Lake dam information request; internal staff meeting regarding potential Medicine Lake outlet modeling; respond to questions from MPCA chloride TMDL consultant regarding GIS information; prepared memorandum to MPCA for Wirth Lake de-listing request, including completion of water quality trend analysis and communications with administrator and MPCA staff; discussion with MPCA staff regarding chloride listings in BCWMC; meeting with New Hope staff; communications with Crystal staff responding to floodplain questions along North Branch of Bassett Creek; and provide chloride study information to administrator.

|  |                    |
|--|--------------------|
| James P. Herbert, Principal Engineer/Scientist       |                    |
| 1.5 hours @ \$160.00 per hour.....                   | \$ 240.00          |
| Karen L. Chandler, Engineer/Scientist/Specialist III |                    |
| 11.4 hours @ \$150.00 per hour.....                  | \$ 1,710.00        |
| Gregory J. Wilson, Engineer/Scientist/Specialist III |                    |
| 9.3 hours @ \$145.00 per hour.....                   | \$ 1,348.50        |
| Ross S. Mullen, Engineer/Scientist/Specialist I      |                    |
| 0.2 hours @ \$70.00 per hour .....                   | \$ 14.00           |
| Technicians/Administrative .....                     | \$ 309.50          |
| <i>Subtotal, Technical Services .....</i>            | <i>\$ 3,622.00</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; reviewed and replied to St. Louis Park staff regarding floodplain question; coordination and communications with Plymouth staff regarding Parkers Lake inlet work; review proposed project

in Golden Valley adjacent to Hwy 100, and send email to city applicant and Minnehaha Creek WD.

|   |                  |
|---|------------------|
| James P. Herbert, Principal Engineer/Scientist<br>3.5 hours @ \$160.00 per hour.....    | \$ 560.00        |
| Rita W. Weaver, Engineer/Scientist/Specialist II<br>1.8 hours @ \$120.00 per hour ..... | \$ 216.00        |
| <i>Subtotal, Preliminary Site Review/Correspondence .....</i>                           | <i>\$ 776.00</i> |

#### MONTHLY MEETING PREPARATION

Reviewed draft BCWMC meeting minutes, and provided comments to administrator; communications/coordination with administrator and recording administrator regarding agenda and meeting packet for December 2013 meeting; communications with administrator regarding January meeting agenda.

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|--|--------------------|
| James P. Herbert, Principal Engineer/Scientist<br>2.3 hours @ \$160.00 per hour.....       | \$ 368.00          |
| Karen L. Chandler, Engineer/Scientist/Specialist III<br>4.4 hours @ \$150.00 per hour..... | \$ 660.00          |
| <i>Subtotal, Monthly Meeting Preparation .....</i>   | <i>\$ 1,028.00</i> |

#### TAC MEETING PREPARATION

Communications with administrator regarding January TAC meeting date and agenda; provided TAC meeting materials to administrator.

|   |                  |
|---|------------------|
| Karen L. Chandler, Engineer/Scientist/Specialist III<br>1.5 hours @ \$150.00 per hour ..... | \$ 225.00        |
| <i>Subtotal, TAC Meeting Preparation.....</i>   | <i>\$ 225.00</i> |

*Subtotal Technical Services.....\$ 5,651.00*

#### 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)

Coordination with applicant regarding final grading, drainage and erosion control plans.

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|---|-----------------|
| James P. Herbert, Principal Engineer/Scientist<br>0.5 hours @ \$160.00 per hour ..... | \$ 80.00        |
| <i>Subtotal, Room &amp; Board Parking Lot Add'n .....</i>                             | <i>\$ 80.00</i> |

### **The Xenia (2013-35)**

Review updated grading, drainage and erosion control plans; prepared letter of approval to City of Golden Valley.

|  |                  |
|--|------------------|
| Rita W. Weaver, Engineer/Scientist/Specialist II |                  |
| 2.1 hours @ \$120.00 per hour .....              | \$ 252.00        |
| <i>Subtotal, The Xenia .....</i>                 | <i>\$ 252.00</i> |

### **St. Mary's Park Drainage Improvements (2013-36)**

Prepared letter of approval to City of Plymouth.

|  |                  |
|--|------------------|
| Rita W. Weaver, Engineer/Scientist/Specialist II             |                  |
| 1.2 hours @ \$120.00 per hour .....                          | \$ 144.00        |
| <i>Subtotal, St. Mary's Park Drainage Improvements .....</i> | <i>\$ 144.00</i> |

|                                   |                  |
|-----------------------------------|------------------|
| <i>Subtotal Plat Review .....</i> | <i>\$ 476.00</i> |
|-----------------------------------|------------------|

### **COMMISSION AND TAC MEETINGS**

Attended December 16<sup>th</sup> Plan Steering Committee meeting.

|  |                  |
|--|------------------|
| Karen L. Chandler, Engineer/Scientist/Specialist III |                  |
| 2.7 hours @ \$150.00 per hour .....                  | \$ 405.00        |
| <i>Subtotal, Commission Meetings .....</i>           | <i>\$ 405.00</i> |

### **SURVEYS AND STUDIES**

Communication and coordination with administrator regarding potential XP-SWMM tutorial meeting dates.

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|--|------------------|
| Karen L. Chandler, Engineer/Scientist/Specialist III |                  |
| 0.6 hours @ \$150.00 per hour .....                  | \$ 90.00         |
| Technicians/Administrative .....                     | \$ 16.00         |
| <i>Subtotal, Surveys and Studies .....</i>           | <i>\$ 106.00</i> |

### **WATER QUALITY MONITORING**

Prepared 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   |                    |
| 6.1 hours @ \$120.00 per hour .....                    | \$ 732.00          |
| Evan G. Christianson, Engineer/Scientist/Specialist II |                    |
| 3.6 hours @ \$115.00 per hour .....                    | \$ 414.00          |
| Joshua R. Vosejpka, Engineer/Scientist/Specialist I    |                    |
| 0.5 hours @ \$65.00 per hour .....                     | \$ 585.00          |
| Technicians/Administrative .....                       | \$ 1,785.00        |
| <i>Subtotal, Water Quality Monitoring .....</i>        | <i>\$ 2,963.50</i> |

### WATER QUANTITY

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

|                                       |                  |
|---------------------------------------|------------------|
| Technicians/Administrative .....      | \$ 382.50        |
| Expenses (Mileage/2WD vehicle) .....  | <u>\$ 51.88</u>  |
| <i>Subtotal, Water Quantity .....</i> | <i>\$ 434.38</i> |

### WATERSHED INSPECTION

|  |                |
|--|----------------|
| <i>Subtotal, Watershed Inspection.....</i> | <i>\$ 0.00</i> |
|--|----------------|

**TOTAL ENGINEERING .....\$ 10,035.88**

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|-----------------------------|
| <b>SECRETARIAL SERVICES</b> |
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### SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including preparing PDFs.

|   |                |
|---|----------------|
| Technicians/Administrative .....          | \$ 8.00        |
| Expenses (B&W/color copies/postage) ..... | <u>\$ 7.50</u> |

**TOTAL SECRETARIAL SERVICES EXPENSES .....\$ 15.50**

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

### NEXT GENERATION PLAN

Reviewed/edited November 18 Plan Steering Committee meeting notes; communications with administrator regarding December Steering Committee meeting materials; coordinated policy updates with administrator; prepared revised groundwater, erosion control, water quality and water quantity/floodplain policies; internal meetings to discuss draft groundwater policies, erosion control standards/triggers and water quality eligible costs; finalize materials for December 16 Plan Steering Committee meeting, including internal discussion regarding groundwater policy and preparing background groundwater information.

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|--|--------------------|
| Karen L. Chandler, Engineer/Scientist/Specialist III<br>8.3 hours @ \$150.00 per hour .....    | \$ 1,245.00        |
| Sterling G. Williams, Engineer/Scientist/Specialist II<br>17.4 hours @ \$110.00 per hour ..... | \$ 1,914.00        |
| Expenses (Postage) .....   | <u>\$ 3.36</u>     |
| <i>Subtotal, Next Generation Plan .....</i>  | <i>\$ 3,162.36</i> |

#### FLOOD CONTROL PROJECT – MAINTENANCE AND REPLACEMENT PLAN

Internal meetings regarding maintenance responsibility and past Commission actions regarding the flood control project; communications with counsel regarding agreements and flood control project maintenance, repair and replacement responsibilities and provide follow-up information to counsel.

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|---|--------------------|
| Leonard J. Kremer, Principal Engineer/Scientist                             |                    |
| 9.5 hours @ \$180.00 per hour.....  | \$ 1,710.00        |
| Karen L. Chandler, Engineer/Scientist/Specialist III                        |                    |
| 4.1 hours @ \$150.00 per hour.....  | \$ 615.00          |
| Technicians/Administrative .....  | \$ 85.00           |
| <i>Subtotal, Flood Control Project-Maintenance &amp; Replacement Plan..</i> | <i>\$ 2,410.00</i> |
| <b>TOTAL PLANNING .....</b>   | <b>\$ 5,572.36</b> |

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

|                                 |                |
|---------------------------------|----------------|
| <b>TOTAL ANNUAL REPORT.....</b> | <b>\$ 0.00</b> |
|---------------------------------|----------------|

|                              |
|------------------------------|
| <b>PUBLIC COMMUNICATIONS</b> |
|------------------------------|

|  |                |
|--|----------------|
| <b>TOTAL PUBLIC COMMUNICATIONS .....</b> | <b>\$ 0.00</b> |
|--|----------------|

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

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

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

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

#### WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Prepared spreadsheet regarding project expenditures for final financial report/grant closeout; communications with BWSR staff; internal meetings to review spreadsheet.

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|--|------------------|
| Karen L. Chandler, Engineer/Scientist/Specialist III         |                  |
| 2.3 hours @ \$150.00 per hour .....                          | \$ 345.00        |
| Amy R. Mikus, Engineer/Scientist/Specialist I                |                  |
| 6.5 hours @ \$85.00 per hour .....                           | \$ 552.50        |
| <i>Subtotal, Wirth Lake Outlet Modification (WTH-4).....</i> | <i>\$ 897.50</i> |

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

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

|  |                  |
|--|------------------|
| James P. Herbert, Principal Engineer/Scientist                         |                  |
| 0.5 hours @ \$160.00 per hour .....                                    | \$ 80.00         |
| Karen L. Chandler, Engineer/Scientist/Specialist III                   |                  |
| 0.5 hours @ \$150.00 per hour .....                                    | \$ 75.00         |
| <i>Subtotal, Cedar Lk Rd to Golden Valley Rd, 2012 Main Stem .....</i> | <i>\$ 155.00</i> |

**SCHAPER POND DIVERSION PROJECT (SL-3)**

Communication with administrator and Golden Valley city staff regarding status of agency review.

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|---|-----------------|
| Karen L. Chandler, Engineer/Scientist/Specialist III  |                 |
| 0.4 hours @ \$150.00 per hour .....                   | \$ 60.00        |
| <i>Subtotal, Schaper Pond Diversion Project .....</i> | <i>\$ 60.00</i> |

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 1,112.50**

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

Coordination with administrator and Golden Valley staff regarding meeting with Sweeney Lake residents about Sweeney Lake outlet; prepared for meeting with Sweeney Lake residents, including review of background materials and water elevations, and meeting with Golden Valley city staff; reviewed project closeout documents.

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| James P. Herbert, Principal Engineer/Scientist             |                    |
| 4.5 hours @ \$160.00 per hour .....                        | \$ 720.00          |
| Karen L. Chandler, Engineer/Scientist/Specialist III       |                    |
| 1.1 hours @ \$150.00 per hour .....                        | \$ 165.00          |
| Michael R. Hoefs, Engineer/Scientist/Specialist II         |                    |
| 13.0 hours @ \$100.00 per hour .....                       | \$ 1,300.00        |
| Expenses (Mileage) .....                                   | \$ 26.00           |
| <i>Subtotal, Sweeney Lake Outlet Replacement CIP .....</i> | <i>\$ 2,211.00</i> |

**TOTAL CAPITAL IMPROVEMENT PROJECTS  
(Maintenance Funds) .....\$ 2,211.00**

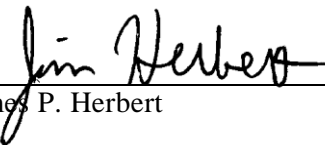
|                     |
|---------------------|
| <b>TMDL STUDIES</b> |
|---------------------|

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

|                       |
|-----------------------|
| <b>SUMMARY TOTALS</b> |
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|  |                       |
|--|-----------------------|
| <b>Total Engineering .....</b>                                     | <b>\$ 10,035.88</b>   |
| <b>Total Secretarial Services Expenses .....</b>                   | <b>\$ 15.50</b>       |
| <b>Total Planning .....</b>  | <b>\$ 5,572.36</b>    |
| <b>Total Annual Report/Website/Public Communications .....</b>     | <b>\$ 0.00</b>        |
| <b>Total WOMP .....</b>  | <b>\$ 0.00</b>        |
| <b>Total Capital Improvement Projects (Tax Levy) .....</b>         | <b>\$ 1,112.50</b>    |
| <b>Total Capital Improvement Projects (Maintenance Funds).....</b> | <b>\$ 2,211.00</b>    |
| <b>Total TMDL Studies .....</b>                                    | <b>\$ <u>0.00</u></b> |
| <b>TOTAL PAYABLE .....</b>   | <b>\$ 18,947.24</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