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BARR

Page # 1
Invoice # 23270051-2013 - 7
Project # 23/27-0051
Client # 59
September 6, 2013

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

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
July 27, 2013 through August 30, 2013

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities and interested citizens; coordination with administrator regarding post-meeting tasks; emails regarding Wirth Lake delisting; communications with administrator regarding budget report questions and upcoming Budget Committee meeting; call to Commissioner Hoshal regarding proposed watershed map; call from resident regarding availability of grants for homeowners; communications with administrator regarding Commission's role in reviewing DNR dewatering permit applications; call from Alternate Commissioner Crough regarding drainage patterns in Northwood Lake area and follow-up site meeting; email from administrator regarding WMO standards question; provide information to administrator in preparation for Budget Committee meeting.

Karen L. Chandler, Engineer/Scientist/Specialist III
11.2 hours @ $150.00 per hour.....$ 1,680.00

Technicians/Administrative.....$ 277.50

Expenses (mileage/postage).....$ 6.22

Subtotal, Technical Services.....$ 1,963.72

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments and review requirements; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; phone call from Pierce Pini regarding proposed site redevelopment in Golden Valley; phone call from MFRA regarding Bassett Creek requirements; phone call from Golden Valley Country Club (GVCC) staff regarding proposed bridge across Bassett Creek and meeting with City of Golden Valley staff and GVCC staff at site to discuss proposed bridge; phone call from Hidden Village condos regarding proposed bridge across Bassett Creek; coordination with Plymouth staff regarding 3200 Harbor Lane project; review DNR appropriations permit for site in Plymouth.

James P. Herbert, Principal Engineer/Scientist
5.9 hours @ $160.00 per hour.....$ 944.00

Expenses (mileage/postage).....$ 11.76

Subtotal, Preliminary Site Review/Correspondence .....$ 955.76

MONTHLY MEETING PREPARATION

Reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with administrator; internal meetings, and communications/coordination with administrator and recording administrator regarding agenda, to-do list and meeting packet for August 2013 meeting; pre-meeting conference call with administrator; communications with administrator regarding actions for agenda items; prepared mid-year budget review memo for meeting packet; discussion regarding September meeting agenda items.

James P. Herbert, Principal Engineer/Scientist
10.4 hours @ $160.00 per hour.....$ 1,664.00

Karen L. Chandler, Engineer/Scientist/Specialist III
15.2 hours @ $150.00 per hour.....$ 2,280.00

Sterling G. Williams, Engineer/Scientist/Specialist II
0.5 hours @ $110.00 per hour.....$ 55.00

Technicians/Administrative .....$ 85.00

Subtotal, Monthly Meeting Preparation.....$ 4,084.00

TAC MEETING PREPARATION

Communications with administrator and TAC members regarding July TAC agenda; prepared agenda and materials for July 29, 2013 TAC meeting; preparation for TAC meeting; reviewed and edited administrator's draft TAC memo.

James P. Herbert, Principal Engineer/Scientist
5.0 hours @ $160.00 per hour.....$ 800.00

Karen L. Chandler, Engineer/Scientist/Specialist III
1.1 hours @ $150.00 per hour.....$ 165.00

Gregory J. Wilson, Engineer/Scientist/Specialist III
0.5 hours @ $145.00 per hour.....$ 72.50

Rita W. Weaver, Engineer/Scientist/Specialist II
2.1 hours @ $120.00 per hour.....$ 252.00

Subtotal, TAC Meeting Preparation.....$ 1,289.50

Subtotal Technical Services.....$ 8,292.98

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.

Wirth Lake 2010 Site Improvements

Erosion control inspection.

Technicians/Administrative ..... $ 68.00

Subtotal, Wirth Lake 2010 Site Improvements ..... $ 68.00

Hazelden Site Expansion

Erosion control inspection.

Technicians/Administrative ..... $ 68.00

Subtotal, Hazelden Site Expansion ..... $ 68.00

West Health Addition

Erosion control inspection.

Technicians/Administrative ..... $ 68.00

Subtotal, West Health Addition (2012-3) ..... $ 68.00

CP Rail Bridge Replacement

Erosion control inspection.

Technicians/Administrative ..... $ 102.00

Subtotal, CP Rail Bridge Replacement ..... $ 102.00

Sunset Hill Element 2013 Bldg Add'n Reno

Erosion control inspection.

Technicians/Administrative ..... $ 68.00

Subtotal, Sunset Hill Element 2013 Bldg Add'n Reno ..... $ 68.00

Greenwood Elementary School

Erosion control inspection.

Technicians/Administrative ..... $ 68.00

Subtotal, Greenwood Elementary School ..... $ 68.00

Golden Valley 2013 PMP

Erosion control inspection.

Technicians/Administrative ..... $ 102.00

Subtotal, Golden Valley 2013 PMP ..... $ 102.00

The Tiburon (2013-1)

Erosion control inspection.

Technicians/Administrative ..... $ 68.00

Subtotal, The Tiburon (2013-1) ..... $ 68.00

Motorwerks MINI (2013-3)

Erosion control inspection.

Technicians/Administrative	$	68.00
Subtotal, Motorwerks MINI (2013-3)	*$*	*68.00*

4900 Triton Drive (2013-4)

Erosion control inspection.

Technicians/Administrative	$	76.50
Subtotal, 4900 Triton Drive (2013-4)	*$*	*76.50*

Hennepin County 911 Facility (2013-7)

Erosion control inspection.

Technicians/Administrative	$	102.00
Subtotal, Hennepin County 911 Facility	*$*	*102.00*

MnDOT TH 169 Mill and Overlay (2013-9)

Erosion control inspection.

Technicians/Administrative	$	119.00
Subtotal, MnDOT TH 169 Mill and Overlay	*$*	*119.00*

Sunshine Factory (2013-10)

Erosion control inspection.

Technicians/Administrative	$	68.00
Subtotal, Sunshine Factory	*$*	*68.00*

Plymouth Yard Waste Site Improvements (2013-13)

Erosion control inspection.

Technicians/Administrative	$	68.00
Subtotal, Plymouth Yard Waste Site Improvements	*$*	*68.00*

Arcata Apartments (2013-14)

Erosion control inspection.

Technicians/Administrative	$	68.00
Subtotal, Arcata Apartments (2013-14)	*$*	*68.00*

Ridgedale Mall Macy's Expansion (2013-15)

Erosion control inspection.

Technicians/Administrative .....$ 68.00

Subtotal, Ridgedale Mall Macy's Expansion .....$ 68.00

West Health TCU (2013-16)

Erosion control inspection.

Technicians/Administrative .....$ 68.00

Subtotal, West Health TCU.....$ 68.00

Tile Shop Corp Remodel (2013-19)

Erosion control inspection.

Technicians/Administrative .....$ 68.00

Subtotal, Tile Shop Corp Remodel (2013-19).....$ 68.00

MnDOT Ply Truck Station Site (2013-20)

Coordination with applicant and City staff; reviewed grading, drainage and erosion control plans; prepared letter to City of Plymouth.

Rita W. Weaver, Engineer/Scientist/Specialist II
0.8 hours @ $120.00 per hour.....$ 96.00

Subtotal, MnDOT Ply Truck Station Site (2013-20) .....$ 96.00

Golden Valley Lutheran Church Addition

Coordination with applicant and City staff; review of grading, drainage and erosion control plans; prepared letter to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist
1.6 hours @ $160.00 per hour .....$ 256.00

Rita W. Weaver, Engineer/Scientist/Specialist II
4.4 hours @ $120.00 per hour.....$ 528.00

Subtotal, Golden Valley Lutheran Church Addition .....$ 784.00

2600 Niagara Lane (2013-23)

Coordination with applicant and City staff; review of grading, drainage and erosion control plans; prepared letter to City of Plymouth.

James P. Herbert, Principal Engineer/Scientist
2.4 hours @ $160.00 per hour .....$ 384.00

Rita W. Weaver, Engineer/Scientist/Specialist II
3.8 hours @ $120.00 per hour.....$ 456.00

Subtotal, 2600 Niagara Lane (2013-23).....$ 840.00

Culvers Restaurant (2013-24)

Coordination with applicant and City staff; review of grading, drainage and erosion control plans; prepared letter to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist		
1.6 hours @ $160.00 per hour	$	256.00
Rita W. Weaver, Engineer/Scientist/Specialist II		
4.5 hours @ $120.00 per hour	$	540.00
Subtotal, Culvers Restaurant (2013-24)	*$*	*796.00*

W Medicine Lk Dr Retaining Wall (2013-25)

Coordination with applicant and City staff; review of grading, drainage and erosion control plans; prepared letter to City of Plymouth.

James P. Herbert, Principal Engineer/Scientist		
1.0 hours @ $160.00 per hour	$	160.00
Rita W. Weaver, Engineer/Scientist/Specialist II		
3.9 hours @ $120.00 per hour	$	468.00
Technicians/Administrative	$	40.00
Subtotal, W Medicine Lk Dr Retaining Wall (2013-25)	*$*	*668.00*

TH 394 Ent Ramp at Ridgedale (2013-26)

Coordination with applicant and City staff; review of grading, drainage and erosion control plans; prepared letter to City of Minnetonka.

James P. Herbert, Principal Engineer/Scientist		
1.6 hours @ $160.00 per hour	$	256.00
Rita W. Weaver, Engineer/Scientist/Specialist II		
6.1 hours @ $120.00 per hour	$	732.00
Technicians/Administrative	$	40.00
Subtotal, TH 394 Ent Ramp at Ridgedale (2013-26)	*$*	*1,028.00*

1400 Spring Valley Road (2013-27)

Coordination with applicant and City staff; review of grading, drainage and erosion control plans; preparation of BCWMC memorandum; prepared letter to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist		
3.0 hours @ $160.00 per hour	$	480.00
Karen L. Chandler, Engineer/Scientist/Specialist III		
0.8 hours @ $150.00 per hour	$	120.00
Rita W. Weaver, Engineer/Scientist/Specialist II		
8.3 hours @ $120.00 per hour	$	996.00
Ross S. Mullen, Engineer/Scientist/Specialist I		
0.2 hours @ $70.00 per hour	$	14.00

Technicians/Administrative ..... $ 40.00

Subtotal, 1400 Spring Valley Road (2013-27) ..... $ 1,650.00

General Mills JFBTC W5 Expansion (2013-28)

Coordination with applicant and City staff; reviewed historical project submittal and BCWMC comments; review of grading, drainage and erosion control plans; prepared letter to City of Golden Valley; reviewed revised grading plans and provided comments to City and applicant.

James P. Herbert, Principal Engineer/Scientist
3.9 hours @ $160.00 per hour ..... $ 624.00

Rita W. Weaver, Engineer/Scientist/Specialist II
10.4 hours @ $120.00 per hour ..... $ 1,248.00

Technicians/Administrative ..... $ 40.00

Subtotal, General Mills JFBTC W5 Expansion ..... $ 1,912.00

Subtotal Plat Review ..... $ 9,159.50

COMMISSION AND TAC MEETINGS

Attended July 29 TAC meeting, August 15 Commission meeting and August 19 Steering Committee meeting.

James P. Herbert, Principal Engineer/Scientist
3.3 hours @ $160.00 per hour ..... $ 528.00

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

Rita W. Weaver, Engineer/Scientist/Specialist II
2.5 hours @ $120.00 per hour ..... $ 300.00

Expenses (Mileage) ..... $ 11.30

Subtotal, Commission Meetings ..... $ 1,859.30

SURVEYS AND STUDIES

FIS Review:

Coordination with administrator and Golden Valley staff regarding FEMA response letter; internal discussion regarding response letter from FEMA; telephone conversation with FEMA; preparation of draft response to FEMA from Golden Valley regarding review of flood insurance study.

Karen L. Chandler, Engineer/Scientist/Specialist III
3.1 hours @ $150.00 per hour ..... $ 465.00

Jeffrey D. Weiss, Engineer/Scientist/Specialist II
3.3 hours @ $110.00 per hour ..... $ 363.00

Subtotal, Surveys and Studies ..... $ 828.00

WATER QUALITY MONITORING

Performed water quality sampling for 2013 monitoring program including Northwood Lake, and North and South Rice Ponds; analyzed phytoplankton, algae and zooplankton samples; analytical results entry and verification of calculated summer average water quality in EQuIS; performed August aquatic plant surveys at Northwood Lake and North and South Rice Pond.

Henry M. Runke, Principal Engineer/Scientist 1.0 hours @ $170.00 per hour	$	170.00
Margaret R. Rattei, Engineer/Scientist/Specialist II 24.7 hours @ $120.00 per hour	$	2,964.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II 1.3 hours @ $110.00 per hour	$	143.00
Kelly A. Wild, Engineer/Scientist/Specialist I 3.8 hours @ $75.00 per hour	$	285.00
Michael B. McKinney, Engineer/Scientist/Specialist I 11.0 hours @ $75.00 per hour	$	825.00
Shelly M. Thompson, Engineer/Scientist/Specialist I 0.8 hours @ $75.00 per hour	$	60.00
Technicians/Administrative	$	2,295.00
Expenses (Braun Intertec/mileage/2WD vehicle/turbidimeter/canoe/ water quality meter)	$	1,423.65
Subtotal, Water Quality Monitoring	*$*	*8,165.65*

WATER QUANTITY

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

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ $160.00 per hour	$	80.00
Technicians/Administrative	$	1,085.50
Expenses (Mileage/2WD vehicle)	$	155.64
Subtotal, Water Quantity	*$*	*1,321.14*

WATERSHED INSPECTION

Performed erosion control inspections; prepared letters of recommendations and distributed to each city.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ $160.00 per hour	$	160.00
Technicians/Administrative	$	365.50
Expenses (Mileage/2WD vehicle)	$	166.84
Subtotal, Watershed Inspection	*$*	*692.34*

ANNUAL FLOOD CONTROL PROJECT INSPECTIONS

Bassett Creek Park Pond Sediment Survey:
Internal communications; reviewed pond depth maps and pond bathymetry GIS files; prepared draft existing conditions bathymetric contour figure.

James P. Herbert, Principal Engineer/Scientist
1.6 hours @ $160.00 per hour.....$ 256.00

Karen L. Chandler, Engineer/Scientist/Specialist III
0.8 hours @ $150.00 per hour.....$ 120.00

Margaret R. Rattei, Engineer/Scientist/Specialist II
2.2 hours @ $120.00 per hour.....$ 264.00

Joshua R. Vosejpka, Engineer/Scientist/Specialist I
4.8 hours @ $75.00 per hour .....$ 312.00

Subtotal, Annual Flood Control Project Inspections .....$ 952.00

TOTAL ENGINEERING .....$ 31,270.91

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including: copies, color copies for meeting packet; postage; copied and assembled packet materials for August 2013 meeting.

Technicians/Administrative .....$ 24.00

Expenses (B&W/color copies/postage) .....$ 65.03

TOTAL SECRETARIAL SERVICES EXPENSES.....$ 89.03

PLANNING

NEXT GENERATION PLAN

Coordination with administrator; prepared for and attended August 19, 2013 Steering Committee meeting; internal discussions regarding draft plan policies; reviewed draft water quality and water quantity policies; prepared final summary of goals for Commission meeting; compiled and organized water quality data; internal discussion regarding table of contents/plan format and historic water quality analysis of BCWMC lakes; organization of water quality data /source tracking for Medicine, Parkers, Crane, Wirth, Sweeney, Twin, Westwood, Northwood, Lost, and Sunset Hill Ponds/Lakes; prepared water quality data summary; prepared lake level summaries for BCWMC lakes.

Karen L. Chandler, Engineer/Scientist/Specialist III
7.5 hours @ $150.00 per hour.....$ 1,125.00

Sterling G. Williams, Engineer/Scientist/Specialist II
12.2 hours @ $110.00 per hour.....$ 1,342.00

Jennifer A. Koehler, Engineer/Scientist/Specialist II
9.1 hours @ $110.00 per hour.....$ 1,001.00

Candice M. Kantor, Engineer/Scientist/Specialist I
3.2 hours @ $80.00 per hour.....$ 256.00

Michael B. McKinney, Engineer/Scientist/Specialist I
16.5 hours @ $75.00 per hour.....$ 1,237.50

Subtotal, Next Generation Plan .....$ 4,961.50

TOTAL PLANNING .....$ 4,961.50

ANNUAL REPORT

TOTAL ANNUAL REPORT.....$ 0.00

PUBLIC COMMUNICATIONS

TOTAL PUBLIC COMMUNICATIONS .....$ 0.00

WEBSITE

TOTAL WEBSITE .....$ 0.00

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Review dye test procedures for high flow measurement. Review RDI Stream Pro info; downloaded and reviewed 2013 flow data.

Christopher J. Bonick, Engineer/Scientist/Specialist II
1.5 hours @ $110.00 per hour.....$ 165.00

Subtotal, Watershed Outlet Monitoring Program.....$ 165.00

TOTAL WOMP.....$ 165.00

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

FOUR SEASON MALL AREA WATER QUALITY PROJECT (NL-2)

Coordination with administrator and City of Plymouth staff; reviewed 50 % design drawings and prepared comments; prepared BCWMC memorandum; communications with Plymouth staff regarding project and presentation at BCWMC meeting; preparation for BCWMC meeting; prepared

letter of recommendation to City of Plymouth and attended meeting with City of Plymouth staff regarding review comments; internal discussion and phone call with Commission counsel regarding Lancaster Lane diversion and feasibility study requirements; reviewed 1996 Northwood Lake and watershed management plan; prepared email to Commissioner Welch responding to phosphorus load question.

James P. Herbert, Principal Engineer/Scientist
8.1 hours @ $160.00 per hour.....$ 1,296.00

Karen L. Chandler, Engineer/Scientist/Specialist III
13.9 hours @ $150.00 per hour.....$ 2,085.00

Gregory J. Wilson, Engineer/Scientist/Specialist III
4.0 hours @ $145.00 per hour.....$ 580.00

Rita W. Weaver, Engineer/Scientist/Specialist II
6.7 hours @ $120.00 per hour.....$ 804.00

Jeffrey D. Weiss, Engineer/Scientist/Specialist II
3.5 hours @ $110.00 per hour.....$ 385.00

Technicians/Administrative .....$ 34.50

Subtotal, Four Season Mall Pond NB-07 (NL-2).....$ 5,184.50

WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Updated eLINK grant tracking spreadsheet.

Amy R. Mikus, Engineer/Scientist/Specialist I
0.5 hours @ $85.00 per hour .....$ 42.50

Subtotal, Wirth Lake Outlet Modification (WTH-4).....$ 42.50

CEDAR LAKE ROAD TO GOLDEN VALLEY ROAD, 2012 MAIN STEM

Coordination with administrator, applicant and MPRB; preliminary review of drawings; email to MPRB and consultant regarding project schedule, BWSR grant deadline and BCWMC CIP project timeline/plan review.

Karen L. Chandler, Engineer/Scientist/Specialist III
1.5 hours @ $150.00 per hour.....$ 225.00

Amy R. Mikus, Engineer/Scientist/Specialist I
4.5 hours @ $85.00 per hour .....$ 382.50

Subtotal, Cedar Lk Rd to Golden Valley Rd, 2012 Main Stem .....$ 607.50

SCHAPER POND ENHANCEMENT

Communications with administrator; internal meeting and call to administrator to prepare for September 9, 2013 public agency meeting including developing agenda, strategy, and meeting materials; review public hearing notice; reviewed 1997 construction drawings; internal meeting regarding BWSR CWF grant application preparation; call from BCWMC counsel regarding agreement and provided project description to counsel; prepared 2014 levy request recommendation; prepared draft grant application.

Leonard J. Kremer, Principal Engineer/Scientist
4.7 hours @ $180.00 per hour.....$ 846.00

James P. Herbert, Principal Engineer/Scientist
1.0 hours @ $160.00 per hour.....$ 160.00

Karen L. Chandler, Engineer/Scientist/Specialist III
8.5 hours @ $150.00 per hour.....$ 1,275.00

Keith M. Pilgrim, Engineer/Scientist/Specialist III
1.5 hours @ $140.00 per hour.....$ 210.00

Karen S. Wold, Engineer/Scientist/Specialist II
2.3 hours @ $105.00 per hour.....$ 241.50

Amy R. Mikus, Engineer/Scientist/Specialist I
3.0 hours @ $85.00 per hour .....$ 255.00

Subtotal, Schaper Pond Enhancement.....$ 2,987.50

TWIN LAKE ALUM TREATMENT PROJECT (TW-2)

Coordination with administrator and DNR fisheries staff regarding Twin Lake fisheries issues; reviewed public hearing notice; emails to administrator regarding DNR electrofishing of Twin and Sweeney Lakes; call from BCWMC counsel regarding project agreement and provided project description to counsel; prepared 2014 levy request recommendation.

James P. Herbert, Principal Engineer/Scientist
0.5 hours @ $160.00 per hour.....$ 80.00

Karen L. Chandler, Engineer/Scientist/Specialist III
2.5 hours @ $150.00 per hour.....$ 375.00

Subtotal, Twin Lake Alum Treatment Project (TW-2).....$ 455.00

BRIARWOOD-DAWNVIEW POND (BC-7)

Coordination with administrator; internal meeting regarding preparation of BWSR CWF grant application; reviewed public hearing notice and communications with administrator and recorder; call from BCWMC counsel regarding agreement and provided project description to counsel; prepared 2014 levy request recommendation; prepared draft grant application.

Karen L. Chandler, Engineer/Scientist/Specialist III
2.5 hours @ $150.00 per hour.....$ 375.00

Amy R. Mikus, Engineer/Scientist/Specialist I
4.0 hours @ $85.00 per hour .....$ 340.00

Subtotal, Briarwood-Dawnview Pond (BC-7) .....$ 715.00

TOTAL CAPITAL IMP PROJECTS (Tax Levy) .....$ 9,992.00

CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)

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

TMDL STUDIES

TOTAL TMDL STUDIES	**$**	**0.00**

SUMMARY TOTALS

Total Engineering	**$**	**31,270.91**
Total Secretarial Services Expenses	**$**	**89.03**
Total Planning	**$**	**4,961.50**
Total Annual Report/Website/Public Communications	**$**	**0.00**
Total WOMP	**$**	**165.00**
Total Capital Improvement Projects (Tax Levy)	**$**	**9,992.00**
Total Capital Improvement Projects (Maintenance Funds)	**$**	**0.00**
Total TMDL Studies	**$**	**0.00**
TOTAL PAYABLE	**$**	**46,478.44**

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