



resourceful. naturally.
engineering and environmental consultants

Mr. Jim de Lambert
Bassett Creek Watershed Management Commission
7800 Golden Valley Road
Golden Valley, MN 55427

Page # 1
Invoice # 23270051-2017-8
Project # 23/27-0051
Client # 59
October 6, 2017

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
September 2, 2017 through September 29, 2017

ENGINEERING

TECHNICAL SERVICES

Coordination regarding agreement with Hennepin County and transfer of XP-SWMM model; communications with administrator regarding draft agreement with Crystal; provide application and draft revised fee schedule documents to administrator; internal discussion regarding BCWMC plan requirements; internal communications regarding revised fee schedule, application, and requirements document; communications with internal staff and administrator regarding Table 2-9 corrections in revised BCWMC plan; project filing; and miscellaneous communications with administrator.

James P. Herbert, Principal Engineer/Scientist 0.8 hours @ \$190.00 per hour	\$	152.00
Karen L. Chandler, Principal Engineer/Scientist 8.2 hours @ \$170.00 per hour	\$	1,394.00
Josh P. Phillips, Engineer/Scientist/Specialist I 1.2 hours @ \$75.00 per hour.....	\$	90.00
<i>Subtotal, Technical Services</i>	\$	1,636.00

MONTHLY MEETING PREPARATION

Communications/coordination with administrator regarding draft/final agenda and meeting packet for September Commission meeting; review/edit draft August meeting minutes; communications with administrator regarding 2018 levy for September packet; prepare for September Commission meeting, including setting up and attending pre-meeting conference call with Chair de Lambert and administrator; prepare presentation for September public hearing and send to administrator; and coordination and communications with administrator and internal staff regarding follow-up tasks from September Commission meeting and upcoming Commission meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$190.00 per hour	\$	665.00
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Karen L. Chandler, Principal Engineer/Scientist 19.0 hours @ \$170.00 per hour	\$ 3,230.00
Technicians/Administrative.....	\$ <u>475.00</u>
<i>Subtotal, Monthly Meeting Preparation.....</i>	<i>\$ 4,370.00</i>

TAC PREPARATION

Communications with administrator regarding TAC memo; review/edit draft TAC memo for September Commission meeting, including update of fee schedule comparison table; and communications (including conference call) with MDNR staff regarding follow-up FEMA modeling questions and status of funding.

Karen L. Chandler, Principal Engineer/Scientist 3.9 hours @ \$170.00 per hour	\$ 663.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III 4.9 hours @ \$130.00 per hour	\$ <u>637.00</u>
<i>Subtotal, TAC Preparation.....</i>	<i>\$ 1,300.00</i>
<i>Subtotal Technical Services</i>	<i>\$ 7,306.00</i>

PLAT REVIEW

SWLRT (2016-2017) (2016-24)

Review information provided by SWLRT consultant regarding additional BNSF work; communications with SWLRT consultant, administrator, and internal staff in response to SWLRT consultant's questions regarding project modifications and BCWMC review/potential re-application.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$190.00 per hour	\$ 95.00
Karen L. Chandler, Principal Engineer/Scientist 3.7 hours @ \$170.00 per hour	\$ 629.00
Josh P. Phillips, Engineer/Scientist/Specialist I 0.4 hours @ \$75.00 per hour.....	\$ <u>30.00</u>
<i>Subtotal, SWLRT.....</i>	<i>\$ 754.00</i>

GV/MPLS Interceptor Rehab (2017-11)

Review revised grading, drainage and erosion control plans; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$190.00 per hour	\$ 95.00
Josh P. Phillips, Engineer/Scientist/Specialist I 0.2 hours @ \$75.00 per hour.....	\$ <u>15.00</u>
<i>Subtotal, GV/MPLS Interceptor Rehab.....</i>	<i>\$ 110.00</i>

CSAH 66 Culvert Replacement (2017-19)

Provide XP-SWMM model to Hennepin County's consultant, per county request.

Jennifer A. Koehler, Engineer/Scientist/Specialist III 1.0 hours @ \$130.00 per hour	\$	<u>130.00</u>
<i>Subtotal, CSAH 66 Culvert Replacement</i>	\$	130.00

Good Samaritan Assisted Living (2017-29)

Review revised grading, drainage and erosion control plans; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 0.9 hours @ \$190.00 per hour	\$	171.00
Josh P. Phillips, Engineer/Scientist/Specialist I 0.7 hours @ \$75.00 per hour	\$	<u>52.50</u>
<i>Subtotal, Good Samaritan Assisted Living</i>	\$	223.50

Shelard Village Site Improvements (2017-30)

Review grading, drainage and erosion control plans; communications with applicant; prepare and send approval/comment letter to city staff; review revised plans; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 2.7 hours @ \$190.00 per hour	\$	513.00
Josh P. Phillips, Engineer/Scientist/Specialist I 3.9 hours @ \$75.00 per hour	\$	292.50
Technicians/Administrative	\$	45.00
Expenses (Postage)	\$	<u>0.46</u>
<i>Subtotal, Shelard Village Site Improvements</i>	\$	850.96

Nathan Lane N Parking Stalls (2017-31)

Review BCWMC legal and drainage boundaries for project site; review grading, drainage and erosion control plans; communications with applicant; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.9 hours @ \$190.00 per hour	\$	361.00
Josh P. Phillips, Engineer/Scientist/Specialist I 6.6 hours @ \$75.00 per hour	\$	495.00
Technicians/Administrative	\$	54.00
Expenses (Postage)	\$	<u>0.46</u>
<i>Subtotal, Nathan Lane N Parking Stalls</i>	\$	910.46

Theodore Wirth Trail Construction (2017-32)

Review trail and erosion control plans; communications with Golden Valley and MPRB staff; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$190.00 per hour	\$	285.00
Josh P. Phillips, Engineer/Scientist/Specialist I 1.5 hours @ \$75.00 per hour.....	\$	112.50
Technicians/Administrative.....	\$	45.00
Expenses (Postage)	\$	<u>0.46</u>
<i>Subtotal, Theodore Wirth Trail Construction.....</i>	<i>\$</i>	<i>442.96</i>

Metro Transit C Line BRT (2017-33)

Plat review set up; and respond to applicant's questions regarding BCWMC review.

Karen L. Chandler, Principal Engineer/Scientist 0.6 hours @ \$170.00 per hour	\$	102.00
Technicians/Administrative.....	\$	45.00
Expenses (Postage)	\$	<u>0.46</u>
<i>Subtotal, Metro Transit C Line BRT</i>	<i>\$</i>	<i>147.46</i>

Subtotal Plat Review.....\$ 3,569.34

PRELIMINARY COMMUNICATIONS AND NON-FEE REVIEWS

PRELIMINARY COMMUNICATIONS

Communications with Golden Valley staff and consultant regarding potential stormwater diversion (as part of the city's 2018 PMP) and BCWMC requirements, and provide XP-SWMM and P8 models to city's consultant per city request; communications with MPRB staff and consultant regarding proposed project; communications with consultant regarding Minnetonka site; and communications with Minneapolis staff regarding project.

James P. Herbert, Principal Engineer/Scientist 5.1 hours @ \$190.00 per hour	\$	969.00
Karen L. Chandler, Principal Engineer/Scientist 1.9 hours @ \$170.00 per hour	\$	323.00
Gregory J. Wilson, Consultant/Advisor 1.0 hours @ \$155.00 per hour	\$	155.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III 1.4 hours @ \$130.00 per hour	\$	182.00
Joshua R. Vosejpk, Engineer/Scientist/Specialist I 0.3 hours @ \$80.00 per hour	\$	<u>24.00</u>
Subtotal, Preliminary Communications.....	\$	1,653.00

NON-FEE REVIEWS

BLUE LINE LRT WCA LGU ADMIN

Golden Valley

Prepare for and attend TEP meeting; meeting follow up; and issue an extension.

Karen S. Wold, Engineer/Scientist/Specialist II	
2.6 hours @ \$120.00 per hour	\$ 312.00
<i>Subtotal, Golden Valley.....</i>	<i>\$ 312.00</i>

Minneapolis

Prepare for and attend TEP meeting; meeting follow up; and issue an extension.

Karen S. Wold, Engineer/Scientist/Specialist II	
2.6 hours @ \$120.00 per hour	\$ 312.00
<i>Subtotal, Minneapolis.....</i>	<i>\$ 312.00</i>

Robbinsdale

Prepare for and attend TEP meeting; meeting follow up; and issue an extension.

Karen S. Wold, Engineer/Scientist/Specialist II	
2.6 hours @ \$120.00 per hour	\$ 312.00
Expenses (Mileage)	\$ 16.05
<i>Subtotal, Robbinsdale.....</i>	<i>\$ 328.05</i>

<i>Subtotal Blue Line LRT WCA LGU Admin.....</i>	<i>\$ 952.05</i>
<i>Subtotal Blue Line LRT & Blue Line LRT WCA LGU Admin.....</i>	<i>\$ 952.05</i>

Subtotal Non-Fee Reviews\$ 952.05

Subtotal Preliminary Communications and Non-Fee Reviews\$ 2,605.05

COMMISSION AND TAC MEETINGS

Attend September 21 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist	
4.4 hours @ \$170.00 per hour	\$ 748.00
Subtotal, Commission and TAC Meetings.....	\$ 748.00

SURVEYS & STUDIES

Subtotal Surveys & Studies.....\$ 0.00

WATER QUALITY/MONITORING

Sweeney Lake Aeration Study

Review lab report; and lab expenses.

Gregory J. Wilson, Consultant/Advisor	
0.5 hours @ \$155.00 per hour	\$ 77.50
Expenses (Pace Analytical Services)	\$ 871.20
<i>Subtotal, Sweeney Lake Aeration Study.....</i>	<i>\$ 948.70</i>
Subtotal, Water Quality/Monitoring.....	\$ 948.70

WATER QUANTITY

Measure and review lake level elevations as part of the lake-gauging program.

Technicians/Administrative.....	\$ 360.00
Expenses (Mileage/2WD field vehicle)	\$ 53.89
Subtotal, Water Quantity.....	\$ 413.89

FLOOD CONTROL PROJECT INSPECTION

Coordinate and plan for 2017 annual BCWMC Flood Control Project structures inspection.

Patrick E. Brockamp, Engineer/Scientist/Specialist I	
0.2 hours @ \$90.00 per hour.....	\$ 18.00
Josh P. Phillips, Engineer/Scientist/Specialist I	
0.2 hours @ \$75.00 per hour.....	\$ 15.00
Subtotal, Flood Control Project Inspection	\$ 33.00
TOTAL ENGINEERING	\$ 15,623.98

ANNUAL REPORT

TOTAL ANNUAL REPORT	\$ 0.00
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PUBLIC COMMUNICATIONS

TOTAL PUBLIC COMMUNICATIONS	\$ 0.00
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WEBSITE

TOTAL WEBSITE	\$ 0.00
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WATERSHED OUTLET MONITORING PROGRAM (WOMP)

TOTAL WOMP	\$ 0.00
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CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

PLYMOUTH CREEK RESTORATION, ANNAPOLIS LN TO 2,500 FT UPSTREAM OF ANNAPOLIS LN (2017 CR-P)

Review 100% submittal; and prepare and send approval letter to city staff.

Karen L. Chandler, Principal Engineer/Scientist		
0.3 hours @ \$170.00 per hour	\$	51.00
Adam K. Howard, Engineer/Scientist/Specialist II		
1.9 hours @ \$105.00 per hour	\$	<u>199.50</u>
<i>Subtotal, Plymouth Creek Restoration Annapolis Ln to 2,500 ft.</i>		
<i>Upstream of Annapolis.....</i>	\$	250.50

WINNETKA POND EAST DREDGING (2018)(BCP-2)

Review comment letter from New Hope resident regarding project; and communications with administrator and Crystal staff.

Karen L. Chandler, Principal Engineer/Scientist		
0.7 hours @ \$170.00 per hour	\$	<u>119.00</u>
<i>Subtotal, Winnetka Pond East Dredging (2018)(BCP-2).....</i>		
	\$	119.00

SCHAPER POND EFFECTIVENESS MONITORING (SL-3)

Maintain and service monitoring equipment for storm event sampling; storm event planning; develop rating curves for inlet and outlet; troubleshoot and fix sample collection system; collect and composite water quality samples from storm events; send samples to lab for analysis; download, process and analyze monitoring data; and evaluate quality assurance/quality control.

Gregory J. Wilson, Consultant/Advisor		
7.0 hours @ \$155.00 per hour	\$	1,085.00
Terri A. Olson, Engineer/Scientist/Specialist III		
0.2 hours @ \$130.00 per hour	\$	26.00
Christopher J. Bonick, Engineer/Scientist/Specialist II		
13.0 hours @ \$120.00 per hour	\$	1,560.00
Patrick E. Brockamp, Engineer/Scientist/Specialist I		
3.1 hours @ \$90.00 per hour	\$	279.00
Heather N. Hlavaty, Engineer/Scientist/Specialist I		
11.8 hours @ \$90.00 per hour	\$	1,062.00
Brianna I. Drake, Engineer/Scientist/Specialist I		
5.6 hours @ \$85.00 per hour	\$	476.00
Josh P. Phillips, Engineer/Scientist/Specialist I		
15.8 hours @ \$75.00 per hour	\$	1,185.00
Technicians/Administrative.....	\$	808.50
Expenses (Mileage/Vehicle-2WD&4WD Field/parking/Batteries		

Plus/auto sampler/Verizon Wireless).....	\$	1,246.62
<i>Subtotal, Schaper Pond Effectiveness Monitoring</i>	\$	7,728.12

DECOLA PONDS B&C IMPROVEMENT PROJECT FEASIBILITY STUDY (2019) (BC-2, BC-3, BC-8)

Prepare for and conduct field wetland delineation; internal communications regarding project start-up, topographic, utility and tree survey, threatened and endangered species review, cultural resources review, and environmental risk/investigation; and communications with Golden Valley staff regarding study scope/budget and draft letter to residents.

Daniel J. Fetter, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	\$	100.00
Karen L. Chandler, Principal Engineer/Scientist 2.5 hours @ \$170.00 per hour	\$	425.00
Jennifer L. Brekken, Engineer/Scientist/Specialist III 0.8 hours @ \$145.00 per hour	\$	116.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III 4.1 hours @ \$130.00 per hour	\$	533.00
Brian K. Burgner, Engineer/Scientist/Specialist II 5.0 hours @ \$95.00 per hour	\$	475.00
Technicians/Administrative.....	\$	176.50
Expenses (Mileage/GPS-Digital camera/GPS system/split tube soil probe/hand auger).....	\$	78.05
<i>Subtotal, DeCola Ponds B&C Feasibility Study.....</i>	\$	1,903.55

BRYN MAWR MEADOWS WATER QUALITY IMPROVEMENT PROJECT FEASIBILITY STUDY (2019) (BC-5)

Prepare for and partially complete the site topographic and utility survey; apply for MPRB permit for the survey and wetland delineation work in the park; coordinate with MPRB staff regarding tree inventory; communications with Minneapolis and MPRB staff regarding field work; and internal communications regarding project start-up and environmental risk/investigation.

Daniel J. Fetter, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	\$	100.00
Karen L. Chandler, Principal Engineer/Scientist 1.4 hours @ \$170.00 per hour	\$	238.00
Jennifer L. Brekken, Engineer/Scientist/Specialist III 0.6 hours @ \$145.00 per hour	\$	87.00
Michelle A. Kimble, Engineer/Scientist/Specialist III 2.7 hours @ \$125.00 per hour	\$	337.50
Josh P. Phillips, Engineer/Scientist/Specialist I 0.1 hours @ \$75.00 per hour	\$	7.50

Technicians/Administrative..... \$ 3,397.50
Expenses (Mileage/2WD vehicle/GPS survey system)..... \$ 588.70
Subtotal, Bryn Mawr Meadows Feasibility Study..... \$ 4,756.20

TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy)\$ 14,757.37

TMDL WORK

TMDL IMPLEMENTATION REPORTING

TOTAL TMDL WORK.....\$ 0.00

SUMMARY TOTALS

Total Engineering\$ 15,623.98
Total Annual Report/Website/Public Communications\$ 0.00
Total WOMP.....\$ 0.00
Total Capital Improvement Projects (Tax Levy).....\$ 14,757.37

TOTAL PAYABLE.....\$ 30,381.35

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


