



Ms. Catherine Cesnik
Bassett Creek Watershed Management Commission
7800 Golden Valley Road
Golden Valley, MN 55427

Page # 1
Invoice # 23270051-2023-8
Project # 23/27-0051
Client # 59
October 6, 2023

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
September 2, 2023 through September 29, 2023

1000—ENGINEERING & MONITORING

1010—Technical Services

Medicine Lake water level public communication: communications with administrator and internal staff regarding Medicine Lake representative’s idea to correlate Medicine Lake water levels to precipitation events; prepare for/attend September 25 meeting with administrator and Commission attorney regarding draft Main Stem agreement with Golden Valley; communications with Alternate Commissioner Kennedy regarding modeled Medicine Lake flood elevations; communications with administrator regarding contractor question on developer’s plans for proposed Sentinel Multifamily and Bank Building (already approved BCWMC #2023-12); communications with administrator and Alternate Commissioner Harwell regarding completed development (Marsh Run/The Birke) in Minnetonka; communications with Golden Valley staff regarding drainage issues on a property located along Bassett Creek; and communications with administrator and consultant for Talo Apartments in Golden Valley (BCWMC 2013-12 The Three Nine Four) regarding drawings of underground system, and compile and provide drawings, per administrator request.

James P. Herbert, Principal Engineer/Scientist		
7.9 hours @ \$215.00 per hour	\$	1,698.50
Karen L. Chandler, Principal Engineer/Scientist		
3.9 hours @ \$200.00 per hour	\$	780.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I		
1.2 hours @ \$110.00 per hour	\$	132.00
<i>Subtotal, Technical Services</i>	\$	2,610.50

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for September Commission meeting; review/edit August meeting minutes; prepare for September Commission meeting, including review meeting packet, communications with TAC chair, and pre-meeting conference call with Chair Cesnik and administrator; and communications with administrator and internal staff regarding follow-up items from September Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 3.7 hours @ \$215.00 per hour	\$	795.50
Karen L. Chandler, Principal Engineer/Scientist 18.3 hours @ \$200.00 per hour	\$	3,660.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.8 hours @ \$110.00 per hour	\$	88.00
Technicians/Administrative.....	\$	<u>605.00</u>
<i>Subtotal, Monthly Meeting Preparation.....</i>	\$	<i>5,148.50</i>

Robbinsdale WCA LGU Admin

Three Rivers Park District’s 65-acre Sochacki Park site in Robbinsdale & Golden Valley: prepare and submit WCA Notice of Decision for Sochacki Park wetland delineation approval.

Karen Wold, Engineer/Scientist/Specialist III 1.3 hours @ \$150.00 per hour	\$	<u>195.00</u>
<i>Subtotal, Robbinsdale WCA LGU Admin.....</i>	\$	<i>195.00</i>

TAC Preparation

Communications with administrator, TAC chair and internal staff regarding September TAC meeting; and prepare for October TAC meeting.

Karen L. Chandler, Principal Engineer/Scientist 1.6 hours @ \$200.00 per hour	\$	<u>320.00</u>
<i>Subtotal, TAC Preparation.....</i>	\$	<i>320.00</i>

Subtotal 1010—Technical Services.....\$ 8,274.00

1020—Development/Project Reviews

Wagner Spraytech Phase 3B (2021-23)

Review information from applicant regarding dredging forebays; and communications with applicant.

Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.6 hours @ \$110.00 per hour	\$	<u>66.00</u>
<i>Subtotal, Wagner Spraytech Phase 3B (2021-23).....</i>	\$	<i>66.00</i>

Marsh Run II-Multifamily Apts (2023-04)

Review revised grading, drainage, erosion control and water quality plans.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$215.00 per hour	\$	107.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 1.7 hours @ \$110.00 per hour	\$	<u>187.00</u>
<i>Subtotal, Marsh Run II-Multifamily Apts (2023-04).....</i>	\$	<i>294.50</i>

Good Shepherd Catholic Church School (2023-19)

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

James P. Herbert, Principal Engineer/Scientist 1.8 hours @ \$215.00 per hour	\$ 387.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 3.4 hours @ \$110.00 per hour	\$ 374.00
Technicians/Administrative.....	\$ <u>105.00</u>
<i>Subtotal, Good Shepherd Catholic Church School (2023-19).....</i>	<i>\$ 866.00</i>

18035 Old Rockford Rd. Multi-Unit Res (2023-20)

Review grading, drainage, and erosion control plans; communications with applicant; and prepare draft comments.

James P. Herbert, Principal Engineer/Scientist 1.6 hours @ \$215.00 per hour	\$ 344.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.9 hours @ \$110.00 per hour	\$ 319.00
Technicians/Administrative.....	\$ <u>105.00</u>
<i>Subtotal, 18035 Old Rockford Rd. Multi-Unit Res (2023-20).....</i>	<i>\$ 768.00</i>

Spire Credit Union Plymouth (2023-21)

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

James P. Herbert, Principal Engineer/Scientist 5.4 hours @ \$215.00 per hour	\$ 1,161.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 4.6 hours @ \$110.00 per hour	\$ 506.00
Technicians/Administrative.....	\$ <u>105.00</u>
<i>Subtotal, Spire Credit Union Plymouth (2023-21).....</i>	<i>\$ 1,772.00</i>

Subtotal, 1020—Development/Project Reviews\$ 3,766.50

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Review MDNR appropriations permit 2023-2707 for construction dewatering (no comment – project located in the Mississippi River Watershed near the old Tunnel outlet); communications with MnDOT staff regarding TH 55 Bassett Creek Main Stem crossing at TH 55 Control Structure and provide modeling information about culvert crossing to MnDOT staff; communications with Minnetonka’s consultant regarding city trail project; and respond to inquiry regarding flood levels in Golden Valley.

James P. Herbert, Principal Engineer/Scientist 7.8 hours @ \$215.00 per hour	\$ 1,677.00
Lulu Fang, Engineer/Scientist/Specialist II 1.0 hours @ \$130.00 per hour	\$ 130.00
Josh Phillips, Engineer/Scientist/Specialist II 0.3 hours @ \$140.00 per hour	\$ <u>42.00</u>

Subtotal, Preliminary Reviews..... \$ 1,849.00

Non-Fee Reviews

Subtotal, Non-Fee Reviews..... \$ 0.00

Subtotal, 1030— Non-Fee and Preliminary Reviews.....\$ 1,849.00

1040—Commission and TAC Meetings

Attend September 6 TAC meeting and September 21 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist
 6.3 hours @ \$200.00 per hour..... \$ 1,260.00

Subtotal, 1040—Commission and TAC Meetings.....\$ 1,260.00

1050—Surveys and Studies

Subtotal, 1050—Surveys and Studies.....\$ 0.00

1060—Water Quality/Monitoring

General Water Quality

Communications with administrator, Plymouth staff and internal staff regarding proposed Medicine Lake TMDL assessment and develop draft preliminary scope; respond to administrator’s questions regarding monitoring/analysis of blue green algae/harmful algal blooms (HAB), including prepare ballpark HAB monitoring/analyses cost estimate; communications with administrator regarding Sweeney Lake resident question about green film on Schaper Pond; and coordinate with internal project team regarding 2024 monitoring.

Karen L. Chandler, Principal Engineer/Scientist
 1.7 hours @ \$200.00 per hour..... \$ 340.00

Gregory Wilson, Engineer/Scientist/Specialist IV
 2.8 hours @ \$190.00 per hour..... \$ 532.00

Meg Rattei, Engineer/Scientist/Specialist III
 4.5 hours @ \$150.00 per hour..... \$ 675.00

Subtotal, General Water Quality..... \$ 1,547.00

Sweeney Lk & Twin Lk 2023 Monitoring

Prepare for and perform September 6 water quality monitoring; analyze zooplankton sample collected from Twin Lake on August 22; analyze phytoplankton and zooplankton samples collected on September 6 from Sweeney Lake north basin, Sweeney Lake south basin, and Twin Lake; communications with laboratory regarding lab reports; file chain of custody forms, lab reports, and field data; upload laboratory data into Barr EQUIS database; summarize 2023 Sweeney Lake and Twin Lake Secchi disc data; communications with administrator regarding Twin Lake September 6 water transparency; expenses include equipment and other monitoring-related expenses, and RMB Enviro Lab invoices for laboratory analyses of water quality samples collected on August 22 and September 6.

Terri Olson, Engineer/Scientist/Specialist III
 1.2 hours @ \$160.00 per hour..... \$ 192.00

Meg Rattei, Engineer/Scientist/Specialist III 16.1 hours @ \$150.00 per hour	\$ 2,415.00
Technicians/Administrative.....	\$ 1,093.50
Sub Consultant (RMB Enviro Lab/Endangered Resource Services).....	\$ 1,172.16
Expenses (filtration apparatus/vehicle/canoe/ice/bottle sampler/ mileage/WQ meter/zooplankton net/turbidmeter).....	\$ <u>274.80</u>
<i>Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring.....</i>	<i>\$ 5,147.46</i>

Plymouth Creek Monitoring Year 2

Complete quality assurance review of August dissolved oxygen, temperature, and continuous measurement data and quarterly monitoring data; prepare for and perform third quarter monitoring on September 27 and deliver samples to MCES laboratory.

Christopher Bonick, Engineer/Scientist/Specialist II 9.0 hours @ \$140.00 per hour	\$ 1,260.00
Technicians/Administrative.....	\$ <u>48.00</u>
<i>Subtotal, Plymouth Creek Monitoring Year 2</i>	<i>\$ 1,308.00</i>
Subtotal, 1060—Water Quality/Monitoring.....	\$ 8,002.46

1070—Water Quantity

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

Technicians/Administrative.....	\$ 420.00
Expenses (vehicle/mileage).....	\$ <u>137.75</u>
<i>Subtotal, Water Quantity.....</i>	<i>\$ 557.75</i>
Subtotal, 1070—Water Quantity	\$ 557.75

1080—Annual Flood Control Project Inspections

Review revised Bassett Creek Tunnel cooperative agreement with City of Minneapolis regarding tunnel operations, maintenance, and inspection; and prepare for flood control inspections, including prepare safety forms, rent equipment, internal pre-inspection meeting, and communications with the cities.

James P. Herbert, Principal Engineer/Scientist 4.2 hours @ \$215.00 per hour	\$ 903.00
Josh Phillips, Engineer/Scientist/Specialist II 2.5 hours @ \$140.00 per hour	\$ 350.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 5.2 hours @ \$110.00 per hour	\$ <u>572.00</u>
Subtotal, 1080—Annual Flood Control Project Inspections	\$ 1,825.00

1090—Municipal Plan Review

Subtotal, 1090— Municipal Plan Review	\$ 0.00
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1100—Watershed Outlet Monitoring Program

Subtotal, 1100—Watershed Outlet Monitoring Program.....\$ 0.00

1110—XPSWMM Model Updates/Reviews

Prepare list of projects for potential inclusion in future XPSWMM and P8 model updates; and prepare draft email to TAC regarding the project list.

Gabrielle Campagnola, Engineer/Scientist/Specialist I
 1.0 hours @ \$110.00 per hour.....\$ 110.00

Subtotal, 1110—XPSWMM Model Updates/Reviews.....\$ 110.00

1130—APM/AIS

Communications with administrator, aquatic plant survey subconsultant (Endangered Resource Services), and internal staff regarding proposed Eurasian watermilfoil (EWM) assessments in Sweeney Lake and upstream ponds; prepare and send subconsultant contract to ERS for October plant survey of Sweeney Lake to assess for EWM; September 14 survey of Schaper pond to assess for EWM presence; and prepare map of Sweeney Lake watershed ponds proposed for EWM assessment in June 2024.

Karen L. Chandler, Principal Engineer/Scientist
 1.4 hours @ \$200.00 per hour.....\$ 280.00

Gregory Wilson, Engineer/Scientist/Specialist IV
 1.3 hours @ \$190.00 per hour.....\$ 247.00

Meg Rattei, Engineer/Scientist/Specialist III
 8.0 hours @ \$150.00 per hour.....\$ 1,200.00

Kelly Wild, Engineer/Scientist/Specialist II
 0.5 hours @ \$125.00 per hour.....\$ 62.50

Katie Kramarczuk, Engineer/Scientist/Specialist I
 1.0 hours @ \$100.00 per hour.....\$ 100.00

Technicians/Administrative.....\$ 168.00

Subtotal, 1130—APM/AIS\$ 2,057.50

SUBTOTAL, 1000—ENGINEERING & MONITORING\$ 27,702.21

2000—PLANNING

2010—Next Generation Plan Development

Plan for and attend the September 7 PSC meeting to discuss priority issues; meeting with administrator to review outcomes of the September 7 PSC meeting; revise draft goals and organize draft goals into a tabular format for the October 4 PSC meeting; review Plan process document and other October 4 PSC packet materials prepared by the administrator; and review Plan update budget and communicate the status to the administrator.

Karen L. Chandler, Principal Engineer/Scientist
 13.2 hours @ \$200.00 per hour.....\$ 2,640.00

Greg Williams, Engineer/Scientist/Specialist III
 11.7 hours @ \$165.00 per hour.....\$ 1,930.50

Subtotal, 2010—Next Generation Plan Development \$ 4,570.50

2020—Next Generation Plan Development – Address Complex Issues

Prepare for and attend the September 27, 2023 meeting with Hennepin County staff, City of Minneapolis staff, MPRB staff and the administrator to discuss the Hennepin County Community Works program as related to opportunities to address water quality and flood risk issues in the Bassett Creek Valley; and internal meeting with project staff to discuss outcomes relative to the 2025 Plan update.

Karen L. Chandler, Principal Engineer/Scientist 4.5 hours @ \$200.00 per hour.....	\$ 900.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 2.7 hours @ \$200.00 per hour.....	\$ 540.00
Greg Williams, Engineer/Scientist/Specialist III 0.8 hours @ \$165.00 per hour.....	\$ 132.00
Subtotal, 2010—Next Generation Plan Development– Address Complex Issues	\$ 1,572.00
SUBTOTAL, 2000—PLANNING.....	\$ 6,142.50

4000—OUTREACH & EDUCATION

4040—Tour

Communications with administrator and internal staff regarding watershed tour and tour stops; and review/edit administrator's draft tour handout.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$215.00 per hour.....	\$ 107.50
Karen L. Chandler, Principal Engineer/Scientist 2.4 hours @ \$200.00 per hour.....	\$ 480.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 0.3 hours @ \$200.00 per hour.....	\$ 60.00
Subtotal, 4040—Tour.....	\$ 647.50

4010—Publications/Annual Report

Subtotal, 4010—Publications/Annual Report	\$ 0.00
SUBTOTAL, 4000—OUTREACH & EDUCATION.....	\$ 647.50

CAPITAL IMPROVEMENT PROJECTS

Four Seasons Area Water Quality Project (NL-2)

Review resubmittal of revised 90% plans; prepare and send comments to Plymouth staff and Plymouth consultant; prepare draft review memo for September Commission meeting and provide to administrator for review; revise/final memo and provide to administrator for meeting packet; research past project reviews/actions regarding floodplain review and prepare notes/recommendation regarding BCWMC existing conditions for floodplain review; communications with administrator,

Plymouth staff and internal staff regarding floodplain review; revise review memo with additional floodplain review item and provide to administrator; and prepare and send conditional approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 12.6 hours @ \$215.00 per hour	\$	2,709.00
Karen L. Chandler, Principal Engineer/Scientist 4.4 hours @ \$200.00 per hour	\$	880.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 9.8 hours @ \$110.00 per hour	\$	<u>1,078.00</u>
<i>Subtotal, Four Seasons Area Water Quality Project (NL-2)</i>	\$	<i>4,667.00</i>

Schaper Pond Carp Management (SL-3)

Prepare for/complete the third, fourth and fifth water quality monitoring events on September 14, September 26 and September 29, respectively; send samples to the lab; and communications regarding analytical testing and project status updates; expenses include monitoring-related expenses.

Gregory Wilson, Engineer/Scientist/Specialist IV 3.7 hours @ \$190.00 per hour	\$	703.00
Terri Olson, Engineer/Scientist/Specialist III 0.1 hours @ \$160.00 per hour	\$	16.00
Kevin Menken, Engineer/Scientist/Specialist II 11.0 hours @ \$135.00 per hour	\$	1,485.00
Katie Kramarczuk, Engineer/Scientist/Specialist I 4.2 hours @ \$100.00 per hour	\$	420.00
Technicians/Administrative	\$	487.50
Expenses (vehicle/mileage/canoe/ice/turbidimeter/WQ meter/bottle sampler/pump/inline filter)	\$	<u>642.57</u>
<i>Subtotal, Schaper Pond Carp Management (SL-3)</i>	\$	<i>3,754.07</i>

Main Stem Lagoon Dredging Project (2021) (BC-7)

Communications with administrator, Commission attorney and internal staff regarding settlement offer; prepare for and attend September 6 TAC meeting; communications with administrator regarding MPRB pavement repair fees; provide pond bathymetry files to Commission attorney to provide to Contractor; internal communications regarding Engineer's additional recommendations for future dredging projects; review counter offer letter from Contractor's attorney; meeting with administrator and Commission attorneys regarding Contractor's counter offer and Commission closed session; attend September 21 Commission meeting closed session; develop cost estimate for future project to dredge remaining sediment to 6-foot depth; and develop table of costs, benefits and cost/benefits for feasibility study options, current constructed project, and future Lagoon construction to full 6-foot depth and develop final project costs for constructed project, and provide to administrator for October TAC meeting agenda.

James P. Herbert, Principal Engineer/Scientist 14.9 hours @ \$215.00 per hour	\$	3,203.50
Karen L. Chandler, Principal Engineer/Scientist 8.8 hours @ \$200.00 per hour	\$	1,760.00

Patrick Brockamp, Engineer/Scientist/Specialist III 9.8 hours @ \$150.00 per hour	\$ 1,470.00
Expenses (mileage).....	\$ 39.96
<i>Subtotal, Main Stem Lagoon Dredging Project (2021) (BC-7).....</i>	<i>\$ 6,473.46</i>

Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)

Construction Services, Project Management and Environmental Assistance

Review contractor submittals; conduct site observation; coordination with contractor; begin preparation of Response Action Plan implementation report; and project management.

Stephanie Johnson, Engineer/Scientist/Specialist IV 2.1 hours @ \$200.00 per hour	\$ 420.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 1.4 hours @ \$185.00 per hour	\$ 259.00
Fred Rozumalski, Engineer/Scientist/Specialist IV 2.2 hours @ \$180.00 per hour	\$ 396.00
Greg Fransen, Engineer/Scientist/Specialist III 0.4 hours @ \$155.00 per hour	\$ 62.00
Josh Phillips, Engineer/Scientist/Specialist II 2.3 hours @ \$140.00 per hour	\$ 322.00
Elizabeth Boehm, Engineer/Scientist/Specialist I 1.3 hours @ \$ 95.00 per hour	\$ 123.50
Seth Stump, Engineer/Scientist/Specialist I 10.8 hours @ \$110.00 per hour	\$ 1,188.00
<i>Subtotal, Construction Services, Project Management and Environmental Assistance.....</i>	<i>\$ 2,770.50</i>

Addition of 36-inch Pipe

<i>Subtotal, Addition of 36-inch Pipe</i>	<i>\$ 0.00</i>
<i>Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)</i>	<i>\$ 2,770.50</i>

Parkers Lake Chloride Reduction Project (2021) (PL-7)

Develop conceptual design for chloride treatment alternatives; develop cost estimates and draft technical memorandum; and communications regarding project status updates.

Bryan Oakley, Engineer/Scientist/Specialist IV 4.8 hours @ \$200.00 per hour	\$ 960.00
Gregory Wilson, Engineer/Scientist/Specialist IV 1.8 hours @ \$190.00 per hour	\$ 342.00
Sara BinAhmed-Menzies, Engineer/Scientist/Specialist I 7.0 hours @ \$115.00 per hour	\$ 805.00
<i>Subtotal, Parkers Lake Chloride Reduction Project (2021) (PL-7)</i>	<i>\$ 2,107.00</i>

SUBTOTAL CAPITAL IMPROVEMENT PROJECTS\$ 19,772.03

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$8,274.00
1020	Development/Project Reviews	\$3,766.50
1030	Non-fee and Preliminary Reviews	\$1,849.00
1040	Commission and TAC Meetings	\$1,260.00
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$8,002.46
1070	Water Quantity	\$557.75
1080	Annual Flood Control Project Inspections	\$1,825.00
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$0.00
1110	Annual XP-SWMM Model Updates/Reviews	\$110.00
1120	TMDL Implementation Reporting	\$0.00
1130	APM/AIS	\$2,057.50
1000	SUBTOTAL ENGINEERING & MONITORING	\$27,702.21
2000	PLANNING	
2010	Next Generation Plan Development	\$4,570.50
2020	Next Generation Plan Development - Address Complex Issues	\$1,572.00
2000	SUBTOTAL PLANNING	\$6,142.50
4000	OUTREACH & EDUCATION	
4040	Tour	\$647.50
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$647.50
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$19,772.03
TOTAL PAYABLE		\$54,264.24

Remittance address:
Lockbox 446104
PO Box 64825
St Paul, MN 55164-0825

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

