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engineering and environmental consultants

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

Page # 1  
Invoice # 23270051-2022-4  
Project # 23/27-0051  
Client # 59  
June 3, 2022

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
April 30, 2022 through May 27, 2022

**1000—ENGINEERING & MONITORING**

**1010—Technical Services**

Technical Services

Communications with administrator, Plymouth staff and internal staff regarding potential project opportunity upstream of Medicine Lake, including review of XP SWMM and P8 model results; provide Medicine Lake water level data spreadsheet to administrator in response to resident request; provide Medicine Lake dam information to Plymouth consultant; and miscellaneous communications with administrator and internal staff.

Karen L. Chandler, Principal Engineer/Scientist 6.0 hours @ \$190.00 per hour .....	\$ 1,140.00
Jen Koehler, Engineer/Scientist/Specialist IV 1.8 hours @ \$165.00 per hour .....	\$ 297.00
<i>Subtotal, Technical Services .....</i>	<i>\$ 1,437.00</i>

WCA LGU ADMINISTRATION

Medicine Lake WCA LGU Administration

Communications regarding wetland boundary discrepancy.

Karen Wold, Engineer/Scientist/Specialist III 0.4 hours @ \$145.00 per hour .....	\$ 58.00
<i>Subtotal, Medicine Lake WCA LGU Administration .....</i>	<i>\$ 58.00</i>

Monthly Meeting Preparation

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

James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$205.00 per hour .....	\$ 717.50
Karen L. Chandler, Principal Engineer/Scientist 13.6 hours @ \$190.00 per hour .....	\$ 2,584.00
Technicians/Administrative .....	\$ 682.00
<i>Subtotal, Monthly Meeting Preparation .....</i>	<i>\$ 3,983.50</i>

TAC Preparation

Prepare materials for June 1 TAC meeting, including update XP SWMM flood elevation table to compare Phase 2 and draft 2021 model results, and update XP SWMM presentation; update project review revenues versus review costs, develop summary of project review revenues and review costs based on project review category, and update proposed project review fee schedule; and communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist 6.3 hours @ \$205.00 per hour .....	\$ 1,291.50
Karen L. Chandler, Principal Engineer/Scientist 3.2 hours @ \$190.00 per hour .....	\$ 608.00
Jen Koehler, Engineer/Scientist/Specialist IV 2.3 hours @ \$165.00 per hour .....	\$ 379.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 4.8 hours @ \$105.00 per hour .....	\$ 504.00
<i>Subtotal, TAC Preparation.....</i>	<i>\$ 2,783.00</i>
<b>Subtotal 1010—Technical Services.....</b>	<b>\$ 8,261.50</b>

**1020—Development/Project Reviews**

Meadowbrook ES Park Lot Impr. (2021-09)

Review resubmittal for water quality (including two manufactured treatment devices), rate control, and erosion and sediment control; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$205.00 per hour .....	\$ 102.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 1.5 hours @ \$105.00 per hour .....	\$ 157.50
<i>Subtotal, Meadowbrook ES Park Lot Imp. (2021-09).....</i>	<i>\$ 260.00</i>

Bassett Creek Dog Park (2022-05)

Prepare for and attend May 4 site visit with administrator, Chair Cesnik, and Crystal staff; review new information and details from city staff, send comments to city staff, and review responses from city staff; review comments from Alternate Commissioner Hauer; prepare review memo for May Commission meeting; prepare and send conditional approval letter to city staff; and communications with administrator, city consultant and city staff.

James P. Herbert, Principal Engineer/Scientist 9.5 hours @ \$205.00 per hour .....	\$ 1,947.50
Karen L. Chandler, Principal Engineer/Scientist 2.2 hours @ \$190.00 per hour .....	\$ 418.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 3.5 hours @ \$105.00 per hour .....	\$ <u>367.50</u>
<i>Subtotal, Bassett Creek Dog Park (2022-05) .....</i>	<i>\$ 2,733.00</i>

West Health Parking Expansion (2022-06)

Review resubmittal for water quality, rate control, and erosion and sediment control; communications with applicant; and prepare draft approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 4.3 hours @ \$205.00 per hour .....	\$ 881.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 4.7 hours @ \$105.00 per hour .....	\$ <u>493.50</u>
<i>Subtotal, West Health Parking Expansion (2022-06) .....</i>	<i>\$ 1,375.00</i>

Hwy 55 & Hwy 169 Apts (2022-07)

Review resubmittal for water quality, rate control, work in the Bassett Creek floodplain, and erosion and sediment control; and prepare draft review memo for June Commission meeting.

James P. Herbert, Principal Engineer/Scientist 0.3 hours @ \$205.00 per hour .....	\$ 61.50
Edward Anderson, Engineer/Scientist/Specialist I 0.4 hours @ \$105.00 per hour .....	\$ 42.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.4 hours @ \$105.00 per hour .....	\$ <u>252.00</u>
<i>Subtotal, Hwy 55 &amp; Hwy 169 Apts (2022-07).....</i>	<i>\$ 355.50</i>

Bassett Creek Dog Park Ped. Bridge Imp. (2022-08)

Review pedestrian bridge site with City staff.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$205.00 per hour .....	\$ <u>102.50</u>
<i>Subtotal, Bassett Creek Dog Park Ped. Bridge Imp. (2022-08) .....</i>	<i>\$ 102.50</i>

Spire GV (2022-09)

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

James P. Herbert, Principal Engineer/Scientist 2.6 hours @ \$205.00 per hour .....	\$ 533.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 3.0 hours @ \$105.00 per hour .....	\$ 315.00

Technicians/Administrative .....	\$	52.50
<i>Subtotal, Spire GV (2022-09)</i> .....	\$	900.50

Vicksburg Ridge 2<sup>nd</sup> Addition (2022-10)

Review grading, drainage, and erosion control plans for water quality, rate control, and erosion and sediment control; review historical project file on same parcel; and prepare draft comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist 3.6 hours @ \$205.00 per hour .....	\$	738.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.2 hours @ \$125.00 per hour .....	\$	25.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 8.5 hours @ \$105.00 per hour .....	\$	892.50
Technicians/Administrative .....	\$	105.00
Expenses (Postage).....	\$	1.36
<i>Subtotal, Vicksburg Ridge 2<sup>nd</sup> Addition (2022-10)</i> .....	\$	1,761.86
<b>Subtotal, 1020—Development/Project Reviews .....</b>	<b>\$</b>	<b>7,488.36</b>

**1030—Non-Fee and Preliminary Reviews**

Preliminary Reviews

Communications with administrator regarding 6609 36th Ave in Crystal; communications with Golden Valley staff regarding fence issue at Maryland Ave; review of landscape plan on Northwood Lake in New Hope and communications with city staff and administrator; communications with consultant and Minneapolis staff regarding 250 Fremont site, outside of BCWMC jurisdictional boundary but in BCWMC floodplain; communications with consultant regarding bridge replacement in Golden Valley; communications with consultant and Minneapolis staff regarding Fruen Mill redevelopment; and communications with developer's consultant regarding Bassett Creek stage information for flood emergency response plan for project in Minneapolis.

James P. Herbert, Principal Engineer/Scientist 4.4 hours @ \$205.00 per hour .....	\$	902.00
Karen L. Chandler, Principal Engineer/Scientist 0.4 hours @ \$190.00 per hour .....	\$	76.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.4 hours @ \$125.00 per hour .....	\$	50.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.3 hours @ \$105.00 per hour .....	\$	31.50
<i>Subtotal, Preliminary Reviews</i> .....	\$	1,059.50
<b>Subtotal, 1030— Non-Fee and Preliminary Reviews .....</b>	<b>\$</b>	<b>1,059.50</b>

**1040—Commission and TAC Meetings**

Attend May 4 TAC meeting and May 19 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 5.0 hours @ \$190.00 per hour .....	\$ 950.00
Jen Koehler, Engineer/Scientist/Specialist IV 1.5 hours @ \$165.00 per hour .....	\$ 247.50
<b>Subtotal, 1040—Commission and TAC Meetings.....</b>	<b>\$ 1,197.50</b>

**1050—Surveys and Studies**

<b>Subtotal, 1050—Surveys and Studies .....</b>	<b>\$ 0.00</b>
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**1060—Water Quality/Monitoring**

General Water Quality

Communications with administrator and internal staff regarding MPCA Professional Judgment Group meeting and prepare meeting summary for Engineer communications at May Commission meeting; communications with administrator and internal staff regarding upcoming MPCA stressor monitoring and answer related MPCA questions; upon direction by MPCA, perform final QA review of 2015-2021 lab and field data previously submitted to MPCA and approve finalization of the data in the MPCA EQUIS database.

Karen L. Chandler, Principal Engineer/Scientist 2.0 hours @ \$190.00 per hour .....	\$ 380.00
Gregory Wilson, Engineer/Scientist/Specialist IV 3.0 hours @ \$180.00 per hour .....	\$ 540.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 4.5 hours @ \$150.00 per hour .....	\$ 675.00
Technicians/Administrative .....	\$ 126.00
<i>Subtotal, General Water Quality.....</i>	<i>\$ 1,721.00</i>

Sweeney Branch Report

Project management; expense charges are Verizon wireless charges.

Margaret R. Rattei, Engineer/Scientist/Specialist III 0.2 hours @ \$150.00 per hour .....	\$ 30.00
Expenses (Verizon Wireless).....	\$ 44.08
<i>Subtotal, Sweeney Branch Report.....</i>	<i>\$ 74.08</i>

Northwood Lake & Lost Lake 2022 Monitoring

Review and file field and laboratory data from ice-out monitoring; prepare schedule of remaining 2022 lake monitoring events and order sample bottles for remaining sample events; and prepare and execute aquatic plant survey subcontract with ERS; expenses are RMB laboratory charges for laboratory analyses of April 18 ice-out monitoring.

Karen L. Chandler, Principal Engineer/Scientist 1.4 hours @ \$190.00 per hour .....	\$ 266.00
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Terri Olson, Engineer/Scientist/Specialist III 1.0 hours @ \$155.00 per hour .....	\$ 155.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 3.6 hours @ \$150.00 per hour .....	\$ 540.00
Kelly Wild, Engineer/Scientist/Specialist II 0.3 hours @ \$115.00 per hour .....	\$ 34.50
Technicians/Administrative .....	\$ 311.50
Subconsultant (RMB Environmental Laboratories, Inc).....	\$ 184.80
<i>Subtotal, Northwood Lake &amp; Lost Lake 2022 Monitoring.....</i>	<i>\$ 1,491.80</i>

Plymouth Creek Monitoring Year 1

Prepare for continuous dissolved oxygen monitoring; and prepare draft memo for June Commission meeting regarding potential purchase of sensor/datalogger for collecting continuous dissolved oxygen data for the stream monitoring program.

Christopher Bonick, Engineer/Scientist/Specialist II 2.0 hours @ \$135.00 per hour .....	\$ 270.00
<i>Subtotal, Plymouth Creek Monitoring Year 1.....</i>	<i>\$ 270.00</i>

**Subtotal, 1060—Water Quality/Monitoring.....\$ 3,556.88**

**1070—Water Quantity**

**Subtotal, 1070—Water Quantity .....\$ 0.00**

**1080—Annual Flood Control Project Inspections**

Develop and submit to administrator draft document summarizing existing and proposed policies and requirements related to tunnel operation and maintenance and development review to initiate discussion with Minneapolis staff; and internal communications.

James P. Herbert, Principal Engineer/Scientist 10.8 hours @ \$205.00 per hour .....	\$ 2,214.00
Karen L. Chandler, Principal Engineer/Scientist 4.8 hours @ \$190.00 per hour .....	\$ 912.00

**Subtotal, 1080—Annual Flood Control Project Inspections.....\$ 3,126.00**

**1100—Watershed Outlet Monitoring Program**

WOMP Rating Curve

Attend May 4 MCES WOMP Forum; perform flow measurement at Bassett Creek WOMP station; and communications with MCES staff.

Christopher Bonick, Engineer/Scientist/Specialist III 6.3 hours @ \$135.00 per hour .....	\$ 850.50
Expenses (Vehicle/Mileage/Survey Set) .....	\$ 136.70

**Subtotal, 1100—Watershed Outlet Monitoring Program.....\$ 987.20**

**1110—XPSWMM Model Updates/Reviews**

**Subtotal, 1110—XPSWMM Model Updates/Reviews .....\$ 0.00**

**1120—TMDL Implementation Reporting**

P8 Model Update

Update drainage divides and develop updated P8 model input parameters.

Joshua Vosejpka, Engineer/Scientist/Specialist I

8.0 hours @ \$105.00 per hour .....\$ 840.00

**Subtotal, 1120—TMDL Implementation Reporting .....\$ 840.00**

**SUBTOTAL, 1000—ENGINEERING & MONITORING .....\$ 26,516.94**

**2000—PLANNING**

**2010—Next Generation Plan Development**

Attend bi-weekly check-in meetings with administrator; prepare draft gaps analysis document, submit to administrator for review, meet with administrator to discuss draft document, and edit per administrator comments; prepare presentation board for future public meetings; and review and edit draft online survey.

Karen L. Chandler, Principal Engineer/Scientist

6.0 hours @ \$190.00 per hour .....\$ 1,140.00

Greg Williams, Engineer/Scientist/Specialist III

16.5 hours @ \$155.00 per hour .....\$ 2,557.50

**Subtotal, 2010—Next Generation Plan Development.....\$ 3,697.50**

**SUBTOTAL, 2000—PLANNING.....\$ 3,697.50**

**4000—OUTREACH & EDUCATION**

**4010—Publications/Annual Report**

**Subtotal, 4010—Publications/Annual Report .....\$ 0.00**

**SUBTOTAL, 4000—OUTREACH & EDUCATION .....\$ 0.00**

**CAPITAL IMPROVEMENT PROJECTS**

Sweeney Lake Water Quality Improvement Project (2020)(SL-8)

Perform Post Alum Treatment Monitoring

Summarize ice-out water quality monitoring results; plan for remaining 2022 sampling season; and laboratory expenses for water quality analyses.

Gregory Wilson, Engineer/Scientist/Specialist IV

0.5 hours @ \$180.00 per hour .....\$ 90.00

Terri Olson, Engineer/Scientist/Specialist III

1.2 hours @ \$155.00 per hour .....\$ 186.00

Technicians/Administrative .....	\$	333.00
Subconsultant (RMB Environmental Laboratories, Inc.).....	\$	<u>272.00</u>
<i>Subtotal, Sweeney Lake Water Quality Impro Project (2020)(SL-8)....</i>		<i>881.00</i>

Schaper Pond Carp Management (SL-3)

Prepare and execute subcontract, and communications/planning with fish hatchery; complete MDNR bluegill stocking permitting; coordinate with fish hatchery on bluegill stocking at Schaper Pond for controlling carp fry; and follow-up with photos of fish stocking.

Karen L. Chandler, Principal Engineer/Scientist 0.4 hours @ \$190.00 per hour .....	\$	76.00
Gregory Wilson, Engineer/Scientist/Specialist IV 18.7 hours @ \$180.00 per hour .....	\$	<u>3,366.00</u>
<i>Subtotal, Schaper Pond Carp Management (SL-3).....</i>	\$	<i>3,442.00</i>

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

Prepare and submit MDNR work in public waters permit application and coordination with the MDNR; expenses for work in public waters permitting fee; meetings and other communications with MPRB staff regarding permitting and other issues; coordination with BCWMC attorney on legal issues related to access agreements and payment of MPRB parkway permitting fees; design and drawing updates; and internal meetings and discussions.

Karen L. Chandler, Principal Engineer/Scientist 9.4 hours @ \$190.00 per hour .....	\$	1,786.00
Patrick Brockamp, Engineer/Scientist/Specialist II 11.9 hours @ \$135.00 per hour .....	\$	1,606.50
Alec Bateman, Engineer/Scientist/Specialist II 1.2 hours @ \$110.00 per hour .....	\$	132.00
Tyler Conley, Engineer/Scientist/Specialist II 4.0 hours @ \$110.00 per hour .....	\$	440.00
Expenses (Minnesota Department of Natural Resources).....	\$	<u>3,000.00</u>
<i>Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7) .....</i>	\$	<i>6,964.50</i>

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

Prepare draft project construction specifications; coordinate with MPRB consultant (SRF) on landscape specifications; perform geotechnical review; prepare draft bid quantities and review; edit plan sheets; and communications with project partners and internal staff.

Daniel Fetter, Principal Engineer/Scientist 6.1 hours @ \$220.00 per hour .....	\$	1,342.00
Robert Osburn, Principal Engineer/Scientist 2.3 hours @ \$210.00 per hour .....	\$	483.00
Nathan Campeau, Principal Engineer/Scientist 1.0 hours @ \$190.00 per hour .....	\$	190.00



Karen L. Chandler, Principal Engineer/Scientist 2.9 hours @ \$190.00 per hour .....	\$ 551.00
Stephanie Johnson, Consultant/Advisor 23.3 hours @ \$190.00 per hour .....	\$ 4,427.00
Benjamin Borree, Engineer/Scientist/Specialist IV 6.7 hours @ \$175.00 per hour .....	\$ 1,172.50
Jennifer Brekken, Engineer/Scientist/Specialist IV 2.7 hours @ \$175.00 per hour .....	\$ 472.50
Fred Rozumalski, Engineer/Scientist/Specialist IV 2.8 hours @ \$175.00 per hour .....	\$ 490.00
Joe Dickerson, Engineer/Scientist/Specialist IV 4.0 hours @ \$170.00 per hour .....	\$ 680.00
Michelle Kimble, Engineer/Scientist/Specialist IV 6.0 hours @ \$165.00 per hour .....	\$ 990.00
Brian Siljenberg, Engineer/Scientist/Specialist IV 3.1 hours @ \$165.00 per hour .....	\$ 511.50
Patrick Heiman, Engineer/Scientist/Specialist II 3.2 hours @ \$130.00 per hour .....	\$ 416.00
Josh P. Phillips, Engineer/Scientist/Specialist II 32.6 hours @ \$125.00 per hour .....	\$ 4,075.00
Jacob Daire, Engineer/Scientist/Specialist II 4.7 hours @ \$105.00 per hour .....	\$ <u>493.50</u>
<i>Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5) .....</i>	<i>\$ 16,294.00</i>
<b>SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS.....</b>	<b>\$ 27,581.50</b>

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
<b>1000</b>	<b>ENGINEERING &amp; MONITORING</b>	
1010	Technical Services	\$8,261.50
1020	Development/Project Reviews	\$7,488.36
1030	Non-fee and Preliminary Reviews	\$1,059.50
1040	Commission and TAC Meetings	\$1,197.50
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$3,556.88
1070	Water Quantity	\$0.00
1080	Annual Flood Control Project Inspections	\$3,126.00
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$987.20
1110	Annual XP-SWMM Model Updates/Reviews	\$0.00
1120	TMDL Implementation Reporting	\$840.00
<b>1000</b>	<b>SUBTOTAL ENGINEERING &amp; MONITORING</b>	<b>\$26,516.94</b>
<b>2000</b>	<b>PLANNING</b>	
2010	Next Generation Plan Development	\$3,697.50
<b>2000</b>	<b>SUBTOTAL PLANNING</b>	<b>\$3,697.50</b>
<b>4000</b>	<b>OUTREACH &amp; EDUCATION</b>	
4010	Publications/Annual Report	\$0.00
<b>4000</b>	<b>SUBTOTAL OUTREACH &amp; EDUCATION</b>	<b>\$0.00</b>
--	<b>SUBTOTAL CAPITAL IMPROVEMENT PROJECTS</b>	<b>\$27,581.50</b>
<b>TOTAL PAYABLE</b>		<b>\$57,795.94</b>

Please note our new remittance address

**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.

