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Ms. Catherine Cesnik Bassett Creek Watershed Management Commission PO Box 270825 Golden Valley, MN 55427 Page # 1 Invoice # 23270051-2023-12 Project # 23/27-0051 Client # 59 February 2, 2024

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of December 30, 2023 through January 26, 2024

1000—ENGINEERING & MONITORING

1010—Technical Services

Communications with internal staff and administrator regarding check for project that was not cashed; provide January grant tracking information to administrator; update project review costs and communicate with administrator regarding projects (2021-36, 2023-04, 2023-22) where review exceeded \$5,000; set up 2024 project number, job, tasks and budgets, and communications with internal staff regarding new project setup; communications with administrator regarding 2024 accounting codes; and internal communications regarding BCWMC projects and upcoming work.

James P. Herbert, Principal Engineer/Scientist 3.3 hours @ \$220.00 per hour\$	726.00
Karen L. Chandler, Principal Engineer/Scientist 7.8 hours @ \$210.00 per hour\$	1,638.00
Stephanie Johnson, Consultant/Advisor 5.8 hours @ \$205.00 per hour\$	1,189.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.2 hours @ \$120.00 per hour\$_	<u> 264.00</u>
Subtotal. Technical Services\$	3.817.00

Monthly Meeting Preparation

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

James P. Herbert, Principal Engineer/Scientist 9.5 hours @ \$220.00 per hour\$	2,090.00
Karen L. Chandler, Principal Engineer/Scientist	
13.3 hours @ \$210.00 per hour\$	2,793.00

Stephanie Johnson, Consultant/Advisor 0.6 hours @ \$205.00 per hour	. \$	123.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.7 hours @ \$120.00 per hour	. \$	84.00
Technicians/Administrative	. \$_	<u>685.00</u>
Subtotal, Monthly Meeting Preparation	. \$	5,775.00
TAC Preparation Prepare information for February 7 TAC meeting regarding XPSWMM to PCSWMM recommended schedule, estimated cost ranges, recommended model updates, and XPSWMM, PCSWMM and ICM software packages, and internal meetings/communications.	l pro	os/cons of
Brandon Barnes, Principal Engineer/Scientist 1.5 hours @ \$195.00 per hour	. \$	292.50
Karen L. Chandler, Principal Engineer/Scientist 4.3 hours @ \$210.00 per hour	. \$	903.00
Stephanie Johnson, Consultant/Advisor 5.7 hours @ \$205.00 per hour	. \$	1,168.50
Jennifer Koehler, Engineer/Scientist/Specialist IV 5.0 hours @ \$185.00 per hour	. \$_	925.00
Subtotal, TAC Preparation	. \$	3,289.00
Subtotal 1010—Technical Services	.\$	12,881.00
1020—Development/Project Reviews Good Shepherd Catholic Church (2023-19) Project close-out, including documentation, tracking and filing.		
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.3 hours @ \$120.00 per hour	. \$	36.00
Subtotal, Good Shepherd Catholic Church (2023-19)	. \$	36.00
Spire Credit Union Plymouth (2023-21) Project close-out, including documentation, tracking and filing.		
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.3 hours @ \$120.00 per hour	. \$_	36.00
Subtotal, Spire Credit Union Plymouth (2023-21)	. \$	36.00
Hopkins Crossroads Trail Improvements (2023-23) Review revised grading, drainage, and erosion control plans; prepare and send approval letter to city staff; and project close-out, including documentation, tracking and filing.		
James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$220.00 per hour	. \$	220.00

Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.2 hours @ \$120.00 per hour	\$ <u> </u>	144.00
Subtotal, Hopkins Crossroads Trail Improvements (2023-23)	\$	364.00
Honeywell International Bldg Improvement (2023-24) Project close-out, including documentation, tracking and filing.		
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.3 hours @ \$120.00 per hour	\$	36.00
Subtotal, Honeywell International Bldg Improvement (2023-24)	\$	36.00
Golden Valley 2024 PMP (2023-25) Review grading, drainage, and erosion control plans; communications with approutstanding comment; review revised grading, drainage and erosion control plans; review memo for January Commission meeting and provide to administrator; papproval letter to city staff; and project close-out, including documentation, training and provide to administrator.	ans; p repar	orepare projec e and send
James P. Herbert, Principal Engineer/Scientist 7.5 hours @ \$220.00 per hour	\$	1,650.00
Karen L. Chandler, Principal Engineer/Scientist 0.6 hours @ \$210.00 per hour	\$	126.00
Eddie Anderson, Engineer/Scientist/Specialist II 0.8 hours @ \$120.00 per hour	\$	96.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 3.8 hours @ \$120.00 per hour	\$	<u>456.00</u>
Subtotal, Golden Valley 2024 PMP (2023-25)	\$	2,328.00
<u>Jet 55 Industrial (2023-26)</u> Review grading, drainage, and erosion control plans.		
James P. Herbert, Principal Engineer/Scientist 1.3 hours @ \$215.00 per hour	\$	279.50
Louis Heffernan, Engineer/Scientist/Specialist III 0.5 hours @ \$145.00 per hour	\$	72.50
Josh Phillips, Engineer/Scientist/Specialist III 0.3 hours @ \$150.00 per hour	\$	45.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 4.4 hours @ \$120.00 per hour	\$	528.00
Technicians/Administrative	\$	52.50
Subtotal, Jet 55 Industrial (2023-26)	\$	1,138.00
Schaal 2023 Riprap (2023-27) Review shoreline improvement plans; communications with applicant; and prepromment letter to city staff.	oare a	ind send
James P. Herbert, Principal Engineer/Scientist 5.8 hours @ \$220.00 per hour	\$	1,276.00

Subtotal, 1020—Development/Project Reviews\$	5,739.00
Subtotal, Schaal 2023 Riprap (2023-27)\$	1,801.00
Technicians/Administrative\$_	105.00
3.5 hours @ \$120.00 per hour\$	420.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II	

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Communications with Plymouth staff informing them a BCWMC application is not required for the proposed Plymouth Park dredging project; review MDNR permit 2023-3281 for riprap placement at a residential property on Medicine Lake in Plymouth; communications with Golden Valley staff regarding directional boring project; preliminary review of a residential deck project in Minnetonka and communications with Minnetonka staff informing them a BCWMC application is not required for the project; preliminary review of Theodore Wirth grading project and communications with Minneapolis Park and Recreation Board staff regarding BCWMC requirements; review and provide comments on MDNR appropriations permit 2023-3043 for irrigation of landscaping at Hollydale development; review MDNR permit 2024-0096 for construction dewatering at Marsh Run II; and communications with administrator and Minneapolis staff regarding SWLRT project work over the Bassett Creek tunnel.

James P. Herbert, Principal Engineer/Scientist 11.7 hours @ \$220.00 per hour\$	2,574.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.8 hours @ \$120.00 per hour\$	96.00
Subtotal, Preliminary Reviews\$	2,670.00
Non-Fee Reviews	
Subtotal, Non-Fee Reviews\$	0.00
Subtotal, 1030— Non-Fee and Preliminary Reviews\$	2,670.00
1040—Commission and TAC Meetings Attend January 18 Commission meeting (business part).	
Karen L. Chandler, Principal Engineer/Scientist 2.0 hours @ \$210.00 per hour\$_	420.00
Subtotal, 1040—Commission and TAC Meetings\$	420.00
1050—Surveys and Studies	
Subtotal, 1050—Surveys and Studies\$	0.00

1060—Water Quality/Monitoring

General Water Quality

Assist administrator with the Hennepin County grant application for Sweeney Lake Eurasian watermilfoil (EWM) treatment, including internal communications regarding whole lake vs. spot

treatments and upstream pond EWM surveys, communications with Golden Valley staff and internal staff regarding pond access for upstream EWM pond surveys, request cost estimate from Endangered Resource Services for EWM plant surveys of Sweeney Lake, Twin Lake, and upstream ponds survey; and prepare and send cost estimate of technical services required for Sweeney Lake EWM to administrator; prepare draft subconsultant contract for EWM plant surveys of Sweeney Lake, Twin Lake, and upstream ponds; respond to administrator's questions regarding Sweeney Lake EWM management; communications with administrator in response to Alternate Commissioner Gould's questions regarding impacts of ProCellaCOR on wildlife and native plants, including communications with SePro staff; updating the BCWMC water monitoring plan schedule and internal communications about the update; and follow-up communications with MPCA staff, administrator and internal staff regarding Crane Lake chloride data.

Varan I. Chandler Dringing Indiagor/Coigntist	
Karen L. Chandler, Principal Engineer/Scientist 5.0 hours @ \$210.00 per hour\$	1,050.00
Gregory Wilson, Engineer/Scientist/Specialist IV 1.0 hours @ \$195.00 per hour\$	195.00
Meg Rattei, Engineer/Scientist/Specialist III 18.2 hours @ \$155.00 per hour\$	2,821.00
Subtotal, General Water Quality\$	4,066.00

Sweeney Lk & Twin Lk 2023 Monitoring

Communications with MCES staff, internal staff, and administrator regarding delayed availability and use of 2023 CAMP data; prepare maps and isopleths and complete trend analyses, plant IBI computations, data summaries, graphs, and data analyses for reports; and prepare and submit 2023 Sweeney Lake and Twin Lake data to MPCA EQUIS data base and communications with MPCA staff about the submittal.

Karen L. Chandler, Principal Engineer/Scientist 1.4 hours @ \$210.00 per hour\$	294.00
Evan Christianson, Principal Engineer/Scientist 0.9 hours @ \$210.00 per hour\$	189.00
Gregory Wilson, Engineer/Scientist/Specialist IV 0.5 hours @ \$195.00 per hour\$	97.50
Meg Rattei, Engineer/Scientist/Specialist III 97.8 hours @ \$155.00 per hour\$	15,159.00
Chris Bonick, Engineer/Scientist/Specialist III 5.5 hours @ \$145.00 per hour\$	797.50
Kelly Wild, Engineer/Scientist/Specialist II 0.8 hours @ \$130.00 per hour\$	104.00
Madeline Hankard, Engineer/Scientist/Specialist I 1.1 hours @ \$115.00 per hour\$	126.50
Technicians/Administrative\$_	660.00
Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring\$	17,427.50

Plymouth Creek Monitoring Year 2

Obtain 2023 Plymouth Creek data from Three Rivers Park District and complete quality assurance/quality control (QA/QC) review of the data; download quarterly monitoring data from the MCES website and complete QA/QC review of the data; complete QA/QC review of continuous dissolved oxygen data; prepare and submit continuous dissolved oxygen and quarterly monitoring data to MPCA EQUIS data base; communications with MPCA and internal staff regarding data submittal to MPCA EQUIS data base, and prepare monitoring location maps and graphs of the 2023 Plymouth Creek data for the report.

Subtotal, 1060—Water Quality/Monitoring\$	29,162.00
Subtotal, Plymouth Creek Monitoring Year 2\$	7,668.50
Technicians/Administrative\$_	476.00
Madeline Hankard, Engineer/Scientist/Specialist I 1.4 hours @ \$115.00 per hour\$	161.00
Kelly Wild, Engineer/Scientist/Specialist II 0.6 hours @ \$130.00 per hour\$	78.00
Chris Bonick, Engineer/Scientist/Specialist III 44.0 hours @ \$145.00 per hour\$	6,380.00
Meg Rattei, Engineer/Scientist/Specialist III 3.7 hours @ \$155.00 per hour\$	573.50

1070—Water Quantity

Measure and review lake elevations as part of the lake-gauging program; and obtain key from Westwood Nature Center for access.

Subtotal, 1070—Water Quantity	\$ 751.00
Expenses(vehicle/mileage)	\$ 91.00
Technicians/Administrative	\$ 660.00

1080—Annual Flood Control Project Inspections

Prepare and send letters regarding the flood control project inspection results to Crystal, Golden Valley, Minneapolis, Plymouth and MnDOT; and communications with Commission attorney regarding revised Bassett Creek Tunnel cooperative agreement with City of Minneapolis.

Subtotal, 1090— Municipal Plan Review\$	0.00
1090—Municipal Plan Review	
Subtotal, 1080—Annual Flood Control Project Inspections\$	2,216.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.3 hours @ \$120.00 per hour\$_	156.00
Josh Phillips, Engineer/Scientist/Specialist III 4.2 hours @ \$150.00 per hour\$	630.00
James P. Herbert, Principal Engineer/Scientist 6.5 hours @ \$220.00 per hour\$	1,430.00

1100—Watershed Outlet Monitoring Program

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

1110—XPSWMM Model Updates/Reviews

Follow-up communications with TAC members regarding information for future XPSWMM and P8 model updates; and document internal information regarding Bryn Mawr Meadows completed project.

Jennifer Koehler, Engineer/Scientist/Specialist IV 1.0 hours @ \$185.00 per hour\$	185.00
Greg Fransen, Engineer/Scientist/Specialist III 0.2 hours @ \$170.00 per hour\$	34.00
Subtotal, 1110—XPSWMM Model Updates/Reviews\$	219.00
1130—APM/AIS	
Subtotal, 1130—APM/AIS	0.00
SUBTOTAL, 1000—ENGINEERING & MONITORING	54,058.00

2000—PLANNING

2010—Next Generation Plan Development

Meeting with administrator to plan for the January 3 PSC meeting; attend and participate in January 3 PSC meeting; review technical references regarding water quality performance of vegetated buffers; review administrator's memo regarding future BCWMC operations model and plan implementation; begin developing climate resiliency goals and strategies; prepare for, attend, and co-facilitate January 18 commission workshop to discuss water quality goals; and review draft materials for the February 7 PSC meeting.

Karen L. Chandler, Principal Engineer/Scientist 16.2 hours @ \$210.00 per hour	\$ 3,402.00
Stephanie Johnson, Consultant/Advisor 3.0 hours @ \$205.00 per hour	\$ 615.00
Greg Williams, Engineer/Scientist/Specialist III 10.3 hours @ \$170.00 per hour	\$ 1,751.00
Subtotal, 2010—Next Generation Plan Development	\$ 5,768.00

2020—Next Generation Plan Development – Address Complex Issues

SUBTOTAL, 2000—PLANNING	\$ 5.768.00
Complex Issues	\$ 0.00
Subtotal, 2010—Next Generation Plan Development– Address	

4000—OUTREACH & EDUCATION

4040—Education & Public Outreach

Communications with administrator and internal staff regarding paper map consultant's GIS data request and follow-up questions regarding BCWMC boundaries, including update map

subwatersheds to be consistent with 2021 XPSWMM model, and provide information to map consultant.

SUBTOTAL, 4000—OUTREACH & EDUCATION	\$ 537.50
Subtotal, 4095—Education & Public Outreach - Tour	\$ 537.50
Greg Williams, Engineer/Scientist/Specialist III 2.0 hours @ \$170.00 per hour	\$ 340.00
Jennifer Koehler, Engineer/Scientist/Specialist IV 0.5 hours @ \$185.00 per hour	\$ 92.50
Karen L. Chandler, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	\$ 105.00

SPECIAL PROJECTS

Medicine Lake TMDL Status Assessment

Project setup; prepare for and attend January 24 kickoff meeting at Plymouth City Hall and internal follow-up regarding BMP mapping; and compile/review updated lake, stormwater and sediment monitoring data.

SUBTOTAL, SPECIAL PROJECTS\$	4,541.95
Subtotal, Medicine Lake TMDL Status Assessment\$	4,541.95
Expenses(mileage)\$_	23.45
Joshua Vosejpka, Engineer/Scientist/Specialist I 0.5 hours @ \$115.00 per hour\$	57.50
Gregory Wilson, Engineer/Scientist/Specialist IV 19.0 hours @ \$195.00 per hour\$	3,705.00
Karen L. Chandler, Principal Engineer/Scientist 3.6 hours @ \$210.00 per hour\$	756.00

CAPITAL IMPROVEMENT PROJECTS

Schaper Pond Enhancement (SL-3)

Schaper Pond Carp Management

Communications regarding analytical testing and project status updates; review and summarize 2023 monitoring data; and communications with administrator, Carp Solutions and internal staff regarding 2023 Schaper Pond monitoring results and to prepare for 2024 upcoming carp survey/box netting.

Karen L. Chandler, Principal Engineer/Scientist 3.7 hours @ \$210.00 per hour\$	777.00
Gregory Wilson, Engineer/Scientist/Specialist IV	
6.8 hours @ \$195.00 per hour\$	1,326.00
Subtotal, Schaper Pond Carp Management (SL-3)\$	2,103.00

Schaper Pond and Sweeney Lake Carp Management

Project setup; and communications with Carp Solutions and internal staff regarding upcoming 2024 carp survey/box netting.

Karen L. Chandler, Principal Engineer/Scientist 0.4 hours @ \$210.00 per hour\$	84.00
Gregory Wilson, Engineer/Scientist/Specialist IV 2.5 hours @ \$195.00 per hour\$	487.50
Technicians/Administrative\$_	57.50
Subtotal, Schaper Pond and Sweeney Lake Carp Management\$_	629.00
Subtotal, Schaper Pond Enhancement (SL-3)\$	2,732.00

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

Review and edit MPRB's CIP project fact sheets and scoring for the future Lagoon dredging options (deepen Lagoons D, E, F, and dredge Lagoon G) and provide to administrator; and communications with internal staff regarding February TAC meeting.

Karen L. Chandler, Principal Engineer/Scientist	
1.9 hours @ \$210.00 per hour	\$ 399.00
Patrick Brockamp, Engineer/Scientist/Specialist III	
1.9 hours @ \$160.00 per hour	\$ 304.00
Subtotal, Main Stem Lagoon Dredging Project (2021) (BC-7)	\$ 703.00

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

<u>Construction Services, Project Management and Environmental Assistance</u>

Prepare/review project record drawings; follow-up on RAP implementation plan; and project management.

Dan Fetter, Principal Engineer/Scientist 0.5 hours @ \$245.00 per hour\$	122.50
Stephanie Johnson, Consultant/Advisor 0.8 hours @ \$205.00 per hour\$	164.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 0.3 hours @ \$190.00 per hour\$	57.00
Michelle Kimble, Engineer/Scientist/Specialist IV 0.5 hours @ \$185.00 per hour\$	92.50
Josh Phillips, Engineer/Scientist/Specialist III 0.7 hours @ \$150.00 per hour\$	105.00
Jacob Daire, Engineer/Scientist/Specialist II 1.1 hours @ \$130.00 per hour\$_	143.00
Subtotal, Construction Services, Project Management and Environmental Assistance\$	684.00

Addition	_	26 inch	Dina
Addillon	U	30- <i>III</i> (II	ripe

Subtotal, Addition of 36-inch Pipe\$	0.00
Subtotal, Bryn Mawr Meadows Water Quality Improvement Project	
(2020) (BC-5)\$	684.00

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

Parkers Lake Chloride Management Follow-up Work

Review TAC meeting notes regarding chloride holistic management ideas.

Karen L. Chandler, Principal Engineer/Scientist	
0.3 hours @ \$210.00 per hour\$_	63.00
Subtotal, Parkers Lake Chloride Management Follow-up Work\$	63.00
Subtotal, Parkers Lake Chloride Reduction Project (2021) (PL-7)\$	63.00

Plymouth Creek Restoration Feasibility Study

Communications with Plymouth staff and internal staff regarding public outreach meeting and site prioritization; continue processing data from site visits and tree survey (BEHI data review and GIS figure generation); update feasibility report text; send bi-weekly email updates to administrator and Plymouth staff; and internal communications regarding public outreach meeting, site prioritization, and desktop assessments.

Karen L. Chandler, Principal Engineer/Scientist 1.3 hours @ \$210.00 per hour\$	273.00
Jessica Olson, Engineer/Scientist/Specialist III 6.6 hours @ \$175.00 per hour\$	1,155.00
Kallie Doeden, Engineer/Scientist/Specialist II 7.9 hours @ \$135.00 per hour\$	1,066.50
Tyler Conley, Engineer/Scientist/Specialist II 0.7 hours @ \$140.00 per hour\$	98.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.6 hours @ \$120.00 per hour\$	312.00
Liz Maher, Engineer/Scientist/Specialist II 0.5 hours @ \$120.00 per hour\$	60.00
Megan Niess, Engineer/Scientist/Specialist II 4.5 hours @ \$120.00 per hour\$_	540.00
Subtotal, Plymouth Creek Restoration Feasibility Study\$	3,554.50
SUBTOTAL CAPITAL IMPROVEMENT PROJECTS\$	7,736.50

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$12,881.00
1020	Development/Project Reviews	\$5,739.00
1030	Non-fee and Preliminary Reviews	\$2,670.00
1040	Commission and TAC Meetings	\$420.00
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$29,162.00
1070	Water Quantity	\$751.00
1080	Annual Flood Control Project Inspections	\$2,216.00
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$0.00
1110	Annual XP-SWMM Model Updates/Reviews	\$219.00
1120	TMDL Implementation Reporting	\$0.00
1130	APM/AIS	\$0.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$54,058.00
2000	PLANNING	
2010	Next Generation Plan Development	\$5,768.00
2020	Next Generation Plan Development - Address Complex Issues	\$0.00
2000	SUBTOTAL PLANNING	\$5,768.00
4000	OUTREACH & EDUCATION	
4040	Education & Public Outreach	\$537.50
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$537.50
	SPECIAL PROJECTS [4]	\$4,541.95
	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$7,736.50
TOTAL PAYABLE		\$72,641.95

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.

In Herber