



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

Page # 1
Invoice # 23270051-2023-11
Project # 23/27-0051
Client # 59
January 3, 2024

Invoice of Account with
BARR ENGINEERING COMPANY

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

1000—ENGINEERING & MONITORING

1010—Technical Services

Meeting with administrator to discuss BCWMC budgets and subwatershed assessments; provide December grant tracking information to administrator; communications with Golden Valley staff regarding impaired waters map and Bassett Creek XPSWMM model; prepare for and hold internal meeting regarding setting up BCWMC 2024 budgets/project number; set up new project for Medicine Lake TMDL assessment; miscellaneous communications with administrator; and project management, including coordination with internal staff.

Karen L. Chandler, Principal Engineer/Scientist 4.2 hours @ \$200.00 per hour.....	\$ 840.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 0.2 hours @ \$200.00 per hour.....	\$ 40.00
Gregory Wilson, Engineer/Scientist/Specialist IV 1.0 hours @ \$190.00 per hour.....	\$ 190.00
Technicians/Administrative.....	\$ 55.00
<i>Subtotal, Technical Services.....</i>	<i>\$ 1,125.00</i>

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for December Commission meeting; review/edit November meeting minutes; prepare for December Commission meeting, including prepare draft Parkers Lake chloride study budget memo for December Commission meeting, provide to administrator for review, and revise and send final memo to administrator, review/edit administrator's draft cover memo regarding Budget Committee recommendations, review meeting packet, pre-meeting conference call with Chair Cesnik and administrator, and meeting with Alternate Commissioner Harwell, administrator, and Minnetonka staff regarding clarification between BCWMC and FEMA floodplains for Hopkins Crossroads project review; communications with administrator and internal staff regarding follow-up items from December Commission meeting and upcoming meeting agenda items; internal communications regarding year-end invoicing schedule and set up/send invoice deadline appointments to internal

staff; and follow-up communications with administrator and Alternate Commissioner Polzin regarding BCWMC buffer submittal requirements and condition of approval.

James P. Herbert, Principal Engineer/Scientist 8.2 hours @ \$215.00 per hour.....	\$	1,763.00
Karen L. Chandler, Principal Engineer/Scientist 31.7 hours @ \$200.00 per hour.....	\$	6,340.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 1.6 hours @ \$200.00 per hour.....	\$	320.00
Gregory Wilson, Engineer/Scientist/Specialist IV 0.5 hours @ \$190.00 per hour.....	\$	95.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 1.2 hours @ \$110.00 per hour.....	\$	132.00
Technicians/Administrative.....	\$	792.00
<i>Subtotal, Monthly Meeting Preparation.....</i>	<i>\$</i>	<i>9,442.00</i>

TAC Preparation

Prepare for December 6 TAC meeting, including prepare notes regarding XPSWMM update and XPSWMM to PCSWMM conversion; communications with administrator regarding TAC recommendations; and internal meeting/communications regarding XPSWMM to PCSWMM conversion information needed for February TAC meeting.

Karen L. Chandler, Principal Engineer/Scientist 4.8 hours @ \$200.00 per hour.....	\$	960.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 0.6 hours @ \$200.00 per hour.....	\$	120.00
Jennifer Koehler, Engineer/Scientist/Specialist IV 0.5 hours @ \$175.00 per hour.....	\$	87.50
<i>Subtotal, TAC Preparation.....</i>	<i>\$</i>	<i>1,167.50</i>
Subtotal 1010—Technical Services.....	\$	11,734.50

1020—Development/Project Reviews

Peninsula Rd Street & Util Improvements (2021-36)

Review revised floodplain compensatory storage, grading, drainage, and erosion control plans; coordination with city and applicant; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.9 hours @ \$215.00 per hour.....	\$	408.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.6 hours @ \$110.00 per hour.....	\$	66.00
<i>Subtotal, Peninsula Rd Street & Util Improvements.....</i>	<i>\$</i>	<i>474.50</i>

Marsh Run II-Multifamily Apts (2023-04)

Communications with applicant regarding installation of best management practice.

James P. Herbert, Principal Engineer/Scientist
0.5 hours @ \$215.00 per hour \$ 107.50
Subtotal, Marsh Run II-Multifamily Apts (2023-04).....\$ 107.50

Medicine Lake Lift Station Floodplain Mitigation (2023-22)

Review revised compensatory floodplain storage, and grading, drainage, and erosion control plans; communications with city staff and applicant; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist
1.2 hours @ \$215.00 per hour \$ 258.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I
0.6 hours @ \$110.00 per hour \$ 66.00
Subtotal, Medicine Lake Lift Station Floodplain Mitigation (2023-22).. \$ 324.00

Hopkins Crossroads Trail Improvements (2023-23)

Review revised grading, drainage, and erosion control plans; prepare project review memo for December Commission meeting and provide to administrator; prepare and send conditional approval letter to city staff; and communications with applicant regarding conditional approval letter.

James P. Herbert, Principal Engineer/Scientist
6.2 hours @ \$215.00 per hour \$ 1,333.00
Karen L. Chandler, Principal Engineer/Scientist
0.9 hours @ \$200.00 per hour \$ 180.00
Eddie Anderson, Engineer/Scientist/Specialist I
0.5 hours @ \$115.00 per hour \$ 57.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I
7.9 hours @ \$110.00 per hour \$ 869.00
Subtotal, Hopkins Crossroads Trail Improvements (2023-23).....\$ 2,439.50

Golden Valley 2024 PMP (2023-25)

Review grading, drainage, and erosion control plans.

James P. Herbert, Principal Engineer/Scientist
1.0 hours @ \$215.00 per hour \$ 215.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I
1.5 hours @ \$110.00 per hour \$ 165.00
Technicians/Administrative..... \$ 105.00
Subtotal, Golden Valley 2024 PMP (2023-25).....\$ 485.00

Jet 55 Industrial (2023-26)

Review grading, drainage, and erosion control plans; and review prior projects at the site.

James P. Herbert, Principal Engineer/Scientist
1.3 hours @ \$215.00 per hour \$ 279.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I
4.0 hours @ \$110.00 per hour \$ 440.00

Technicians/Administrative.....	\$	<u>52.50</u>
<i>Subtotal, Jet 55 Industrial (2023-26)</i>	\$	772.00
Subtotal, 1020—Development/Project Reviews	\$	4,602.50

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Provide the BCWMC floodplain elevation and BCWMC floodplain requirements for the Station 73 Project along Highway 55 and County Road 73 to the City of Plymouth’s consultant; preliminary communications with developer regarding a development at 6202 and 6213 36th Avenue N. in Crystal and the BCWMC floodplain requirements for the project; and coordination with administrator regarding a proposed project.

James P. Herbert, Principal Engineer/Scientist 2.2 hours @ \$215.00 per hour.....	\$	473.00
Karen L. Chandler, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour.....	\$	100.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.5 hours @ \$110.00 per hour.....	\$	<u>55.00</u>
<i>Subtotal, Preliminary Reviews</i>	\$	628.00

Non-Fee Reviews

<i>Subtotal, Non-Fee Reviews</i>	\$	0.00
Subtotal, 1030— Non-Fee and Preliminary Reviews.....	\$	628.00

1040—Commission and TAC Meetings

Attend December 6 TAC meeting and December 21 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 5.5 hours @ \$200.00 per hour.....	\$	<u>1,100.00</u>
Subtotal, 1040—Commission and TAC Meetings.....	\$	1,100.00

1050—Surveys and Studies

Medicine Lake TMDL Assessment Scope

Develop draft work scope for the Medicine Lake TMDL assessment and provide to administrator, Plymouth and Three Rivers Park District staff for review/comment; prepare/add estimated costs to work scope and provide to administrator for review; finalize and send work scope to administrator for December Commission meeting packet; internal communications regarding work scope; and follow-up on Commissioner Welch's comments/suggestions about incorporating regulatory effectiveness into the assessment.

Karen L. Chandler, Principal Engineer/Scientist 5.9 hours @ \$200.00 per hour.....	\$	1,180.00
Gregory Wilson, Engineer/Scientist/Specialist IV 15.3 hours @ \$190.00 per hour.....	\$	<u>2,907.00</u>

Subtotal, Medicine Lk TMDL Assessment Scope..... \$ 4,087.00
Subtotal, 1050—Surveys and Studies.....\$ **4,087.00**

1060—Water Quality/Monitoring

General Water Quality

Attend December 4 MPCA meeting regarding draft 2024 impaired waters list and follow-up with MPCA and internal staff regarding review and comments; communications with administrator and internal staff regarding proposed additions to impaired waters list; prepare and send draft impaired waters MPCA comment letter to administrator, revise/final per administrator comments and send to administrator for December meeting packet; review/edit administrator's draft impaired waters cover memo for December Commission meeting; prepare and send impaired waters map to administrator for December meeting packet; communications with administrator and internal staff regarding MPCA EQUiS data review, the 2016 and 2021 Crane Lake data missing in MPCA EQUiS, and including Crane Lake on 2024 impaired waters list; communications with administrator regarding review of Wirth Lake and Spring Lake 2023 water quality monitoring data; and schedule 2024 lake water quality and invertebrate monitoring.

Karen L. Chandler, Principal Engineer/Scientist
 3.7 hours @ \$200.00 per hour..... \$ 740.00
 Gregory Wilson, Engineer/Scientist/Specialist IV
 12.5 hours @ \$190.00 per hour..... \$ 2,375.00
 Meg Rattei, Engineer/Scientist/Specialist III
 3.1 hours @ \$150.00 per hour..... \$ 465.00
 Greg Williams, Engineer/Scientist/Specialist III
 1.0 hours @ \$165.00 per hour..... \$ 165.00
 Madeline Hankard, Engineer/Scientist/Specialist I
 2.4 hours @ \$105.00 per hour..... \$ 252.00
 Colleen Long, Engineer/Scientist/Specialist I
 1.4 hours @ \$115.00 per hour..... \$ 161.00
 Technicians/Administrative..... \$ 63.00
Subtotal, General Water Quality..... \$ 4,221.00

Sweeney Lk & Twin Lk 2023 Monitoring

Prepare for completion of 2023 data summaries; process field data and create data tables.

Meg Rattei, Engineer/Scientist/Specialist III
 1.1 hours @ \$150.00 per hour..... \$ 165.00
 Technicians/Administrative..... \$ 292.50
Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring..... \$ 457.50

Plymouth Creek Monitoring Year 2

Internal communications regarding submittal of 2023 Plymouth Creek data to MPCA EQUiS; and review and approve the third quarter MCES Lab invoice (shown as an expense).

Meg Rattei, Engineer/Scientist/Specialist III 0.4 hours @ \$150.00 per hour	\$	60.00
Technicians/Administrative.....	\$	70.00
Subconsultant (Met Council Enviro Services)	\$	<u>66.00</u>
<i>Subtotal, Plymouth Creek Monitoring Year 2</i>	\$	196.00
Subtotal, 1060—Water Quality/Monitoring.....	\$	4,874.50

1070—Water Quantity

Communications with internal staff regarding lake-gauging program.

James P. Herbert, Principal Engineer/Scientist 0.2 hours @ \$215.00 per hour	\$	43.00
Subtotal, 1070—Water Quantity	\$	43.00

1080—Annual Flood Control Project Inspections

Complete draft annual flood control project inspection report, internal meeting regarding draft report, and prepare and send final report to administrator for December meeting packet; prepare draft letters regarding the flood control project inspection results to Crystal, Golden Valley, Minneapolis, Plymouth and MnDOT; and review revised Bassett Creek Tunnel cooperative agreement with City of Minneapolis regarding tunnel operations, maintenance, and inspection, and communications with administrator and Commission attorney regarding comments on agreement.

James P. Herbert, Principal Engineer/Scientist 11.2 hours @ \$215.00 per hour	\$	2,408.00
Karen L. Chandler, Principal Engineer/Scientist 0.9 hours @ \$200.00 per hour.....	\$	180.00
Josh Phillips, Engineer/Scientist/Specialist II 7.1 hours @ \$140.00 per hour	\$	994.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.0 hours @ \$110.00 per hour	\$	220.00
Technicians/Administrative.....	\$	<u>682.50</u>
Subtotal, 1080—Annual Flood Control Project Inspections	\$	4,484.50

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
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1110—XPSWMM Model Updates/Reviews

Internal meeting regarding recently implemented projects within the BCWMC to include in model updates and file relevant plans/models; and send email to TAC members regarding providing information for future XPSWMM and P8 model updates.

Jennifer Koehler, Engineer/Scientist/Specialist IV 1.2 hours @ \$175.00 per hour.....	\$ 210.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.0 hours @ \$110.00 per hour.....	\$ 220.00
Subtotal, 1110—XPSWMM Model Updates/Reviews.....	\$ 430.00

1130—APM/AIS

Subtotal, 1130—APM/AIS	\$ 0.00
SUBTOTAL, 1000—ENGINEERING & MONITORING	\$ 31,984.00

2000—PLANNING

2010—Next Generation Plan Development

Attend and participate in December 6 PSC meeting; meet with administrator to prepare for December 15 Plan TAC meeting; review and provide comments on draft materials for the December 15 Plan TAC meeting; attend and participate in December 15 Plan TAC meeting; meet with administrator to review comments from Plan TAC meeting; meet with administrator to discuss agenda and materials for January 3 PSC meeting; review and comment on materials for January 3 PSC meeting, including updates to Plant IBI goals; and begin work on climate resiliency draft goals.

Karen L. Chandler, Principal Engineer/Scientist 18.6 hours @ \$200.00 per hour.....	\$ 3,720.00
Greg Williams, Engineer/Scientist/Specialist III 12.2 hours @ \$165.00 per hour.....	\$ 2,013.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 0.6 hours @ \$200.00 per hour.....	\$ 120.00
Subtotal, 2010—Next Generation Plan Development.....	\$ 5,853.00

2020—Next Generation Plan Development – Address Complex Issues

Subtotal, 2010—Next Generation Plan Development– Address Complex Issues	\$ 0.00
SUBTOTAL, 2000—PLANNING	\$ 5,853.00

4000—OUTREACH & EDUCATION

SUBTOTAL, 4000—OUTREACH & EDUCATION.....	\$ 0.00
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CAPITAL IMPROVEMENT PROJECTS

Schaper Pond Carp Management (SL-3)

Communications regarding analytical testing and project status updates; review monitoring data; and communications with Golden Valley staff regarding residential source of erosion.

Karen L. Chandler, Principal Engineer/Scientist 0.7 hours @ \$200.00 per hour.....	\$ 140.00
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Gregory Wilson, Engineer/Scientist/Specialist IV 4.8 hours @ \$190.00 per hour.....	\$ 912.00
Technicians/Administrative.....	\$ <u>48.00</u>
<i>Subtotal, Schaper Pond Carp Management (SL-3).....</i>	<i>\$ 1,100.00</i>

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

Prepare draft final report; revise/final report per comments from administrator and internal staff reviews; and provide final report to administrator for December Commission meeting.

James P. Herbert, Principal Engineer/Scientist 1.3 hours @ \$215.00 per hour.....	\$ 279.50
Karen L. Chandler, Principal Engineer/Scientist 2.2 hours @ \$200.00 per hour.....	\$ 440.00
Patrick Brockamp, Engineer/Scientist/Specialist III 5.3 hours @ \$150.00 per hour.....	\$ 795.00
Ann Brunton, Engineer/Scientist/Specialist I 3.4 hours @ \$110.00 per hour.....	\$ <u>374.00</u>
<i>Subtotal, Main Stem Lagoon Dredging Project (2021) (BC-7).....</i>	<i>\$ 1,888.50</i>

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

Construction Services, Project Management and Environmental Assistance

Develop project record drawings; prepare project closeout checklist and direction on necessary adjustments to diversion weir; and project management.

Stephanie Johnson, Engineer/Scientist/Specialist IV 2.5 hours @ \$200.00 per hour.....	\$ 500.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 1.4 hours @ \$185.00 per hour.....	\$ 259.00
Josh Phillips, Engineer/Scientist/Specialist II 10.8 hours @ \$140.00 per hour.....	\$ 1,512.00
Jacob Daire, Engineer/Scientist/Specialist II 3.9 hours @ \$120.00 per hour.....	\$ <u>468.00</u>
<i>Subtotal, Construction Services, Project Management and Environmental Assistance.....</i>	<i>\$ 2,739.00</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>\$ 2,739.00</i>

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

Study of Chloride Extraction/Dilution for Parkers Lake

Meeting with administrator and Plymouth staff to respond to questions/comments on draft technical memorandum; finalize and send technical memorandum to administrator for November Commission meeting packet; and communications regarding project status updates.

Karen L. Chandler, Principal Engineer/Scientist 6.7 hours @ \$200.00 per hour	\$ 1,340.00
Gregory Wilson, Engineer/Scientist/Specialist IV 14.6 hours @ \$190.00 per hour	\$ <u>2,774.00</u>
<i>Subtotal, Study of Chloride Extraction/Dilution for Parkers Lake</i>	<i>\$ 4,114.00</i>

Parkers Lake Chloride Management Follow-up Work

<i>Subtotal, Parkers Lake Chloride Management Follow-up Work</i>	<i>\$ 0.00</i>
<i>Subtotal, Parkers Lake Chloride Reduction Project (2021) (PL-7)</i>	<i>\$ 4,114.00</i>

Plymouth Creek Restoration Feasibility Study

Communications with administrator, Plymouth staff and internal staff regarding agency stakeholder meeting; attend December 5 agency stakeholder meeting with administrator, Plymouth staff, and agency representatives (USACE, MPCA, MNDNR, BWSR, Hennepin County); continue to process data from site visits and tree survey; review existing XPSWMM model; send bi-weekly email updates to administrator and Plymouth staff; and internal communications regarding agency stakeholder meeting, ArcGIS Online web maps, and desktop assessments.

Karen L. Chandler, Principal Engineer/Scientist 2.7 hours @ \$200.00 per hour	\$ 540.00
Jessica Olson, Engineer/Scientist/Specialist III 7.4 hours @ \$170.00 per hour	\$ 1,258.00
Brendan Dougherty, Engineer/Scientist/Specialist II 2.5 hours @ \$135.00 per hour	\$ 337.50
Kallie Doeden, Engineer/Scientist/Specialist II 1.7 hours @ \$130.00 per hour	\$ 221.00
Lulu Fang, Engineer/Scientist/Specialist II 1.9 hours @ \$130.00 per hour	\$ 247.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.6 hours @ \$110.00 per hour	\$ 286.00
Megan Niess, Engineer/Scientist/Specialist I 1.3 hours @ \$115.00 per hour	\$ <u>149.50</u>
<i>Subtotal, Plymouth Creek Restoration Feasibility Study.....</i>	<i>\$ 3,039.00</i>

SUBTOTAL CAPITAL IMPROVEMENT PROJECTS\$ 12,880.50

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$11,734.50
1020	Development/Project Reviews	\$4,602.50
1030	Non-fee and Preliminary Reviews	\$628.00
1040	Commission and TAC Meetings	\$1,100.00
1050	Surveys and Studies	\$4,087.00
1060	Water Quality/Monitoring	\$4,874.50
1070	Water Quantity	\$43.00
1080	Annual Flood Control Project Inspections	\$4,484.50
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$0.00
1110	Annual XP-SWMM Model Updates/Reviews	\$430.00
1120	TMDL Implementation Reporting	\$0.00
1130	APM/AIS	\$0.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$31,984.00
2000	PLANNING	
2010	Next Generation Plan Development	\$5,853.00
2020	Next Generation Plan Development - Address Complex Issues	\$0.00
2000	SUBTOTAL PLANNING	\$5,853.00
4000	OUTREACH & EDUCATION	
4040	Tour	\$0.00
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$12,880.50
TOTAL PAYABLE		\$50,717.50

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.

