



resourceful. naturally.
engineering and environmental consultants

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

Page # 1
Invoice # 23270051-2022-3
Project # 23/27-0051
Client # 59
April 8, 2022

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
February 26, 2022 through April 1, 2022

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Communications with administrator and internal staff regarding MWMO boundary revisions and impact on BCWMC boundary; 2023 budgeting: communications with administrator and internal staff, set up and complete budget summary table, review past year's budgets/costs, internal meeting to review budgets, develop water quality monitoring estimates, including communications with aquatic plant survey subconsultant, and provide draft budgets to administrator for Budget Committee meeting; prepare draft data transfer agreement to share Jevne Park wetland GIS files with Medicine Lake consultant; communications with administrator and St. Louis Park staff regarding annual meeting; review technical submittal for Sears redevelopment project including water quality and MTDs, and communications with administrator and MTD manufacturer regarding project approval protocols; and miscellaneous communications with administrator.

James P. Herbert, Principal Engineer/Scientist		
1.5 hours @ \$205.00 per hour	\$	307.50
Karen L. Chandler, Principal Engineer/Scientist		
16.3 hours @ \$190.00 per hour.....	\$	3,097.00
Jen Koehler, Engineer/Scientist/Specialist IV		
0.4 hours @ \$165.00 per hour.....	\$	66.00
Margaret R. Rattei, Engineer/Scientist/Specialist III		
14.6 hours @ \$150.00 per hour.....	\$	2,190.00
Chris Bonick, Engineer/Scientist/Specialist III		
3.0 hours @ \$135.00 per hour	\$	405.00
Technicians/Administrative	\$	<u>63.00</u>
<i>Subtotal, Technical Services</i>	<i>\$</i>	<i>6,128.50</i>

WCA LGU ADMINISTRATION

Medicine Lake WCA LGU Administration

CenterPoint project for Peninsula Rd & Kaiser Ave in Medicine Lake: communications with TEP members, prepare and submit Notice of Decision for WCA no-loss approval, request updated city and watershed contact information; City of Medicine Lake Peninsula Rd at Jevne Park road project: respond to questions from consultant regarding previous wetland delineation boundaries, request follow up clarification of previous data from Jevne Park and wetland boundary alignment, and revise wetland boundary GIS shapefiles.

Karen Wold, Engineer/Scientist/Specialist III		
5.7 hours @ \$145.00 per hour	\$	826.50
Brian Burgner, Engineer/Scientist/Specialist II		
3.5 hours @ \$115.00 per hour	\$	<u>402.50</u>
<i>Subtotal, Medicine Lake WCA LGU Administration</i>	<i>\$</i>	<i>1,229.00</i>

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for March Commission meeting; review draft Crough, Holter, and Elder resolutions and draft Medicine Lake CIP memo for March Commission meeting; prepare for March Commission meeting, including review meeting packet, pre-meeting virtual meeting with Vice Chair Welch and administrator, and internal communications regarding meeting attendance and presentations; and communications with administrator and internal staff regarding follow-up items from March Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist		
5.7 hours @ \$205.00 per hour	\$	1,168.50
Karen L. Chandler, Principal Engineer/Scientist		
14.5 hours @ \$190.00 per hour	\$	2,755.00
Technicians/Administrative	\$	<u>1,105.50</u>
<i>Subtotal, Monthly Meeting Preparation</i>	<i>\$</i>	<i>5,029.00</i>

TAC Preparation

Prepare for March 18 TAC meeting; and review/edit draft TAC memo for April Commission meeting.

James P. Herbert, Principal Engineer/Scientist		
1.5 hours @ \$205.00 per hour	\$	307.50
Karen L. Chandler, Principal Engineer/Scientist		
2.3 hours @ \$190.00 per hour	\$	<u>437.00</u>
<i>Subtotal, TAC Preparation</i>	<i>\$</i>	<i>744.50</i>

Subtotal 1010—Technical Services.....\$ 13,131.00

1020—Development/Project Reviews

Meadowbrook ES Park Lot Impr. (2021-09)

Review resubmittal for water quality (including manufactured treatment devices), rate control, and

erosion and sediment control; prepare and send comment letter to city staff; and communications with city staff and administrator.

James P. Herbert, Principal Engineer/Scientist 6.8 hours @ \$205.00 per hour	\$ 1,394.00
Josh P. Phillips, Engineer/Scientist/Specialist II 1.1 hours @ \$125.00 per hour	\$ 137.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 11.6 hours @ \$105.00 per hour.....	\$ 1,218.00
Technicians/Administrative	\$ <u>52.50</u>
<i>Subtotal, Meadowbrook ES Park Lot Imp. (2021-09).....</i>	<i>\$ 2,802.00</i>

Plymouth Creek Parking Lot Reco (2021-11)

Review resubmittal for water quality, 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	\$ 540.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.9 hours @ \$105.00 per hour	\$ <u>304.50</u>
<i>Subtotal, Plymouth Creek Parking Lot Reco (2021-11).....</i>	<i>\$ 407.00</i>

Wirth on the Woods (2021-33)

Review resubmittal for water quality, rate control, and erosion and sediment control; prepare and send comment letter to city staff; review second resubmittal; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 3.2 hours @ \$205.00 per hour	\$ 656.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 4.6 hours @ \$105.00 per hour	\$ <u>483.00</u>
<i>Subtotal, Wirth on the Woods (2021-33)</i>	<i>\$ 1,139.00</i>

Peninsula Rd Street & Util Improvements (2021-36)

Final review of resubmittal; prepare review memo for March Commission meeting; and prepare and send approval letter to city representative.

James P. Herbert, Principal Engineer/Scientist 5.4 hours @ \$205.00 per hour	\$ 1,107.00
Karen L. Chandler, Principal Engineer/Scientist 0.9 hours @ \$190.00 per hour	\$ 171.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 4.0 hours @ \$105.00 per hour	\$ 420.00
Technicians/Administrative	\$ <u>73.50</u>
<i>Subtotal, Peninsula Rd Street & Util Improvements (2021-36).....</i>	<i>\$ 1,771.50</i>

Parkera Plymouth (2021-38)

Review grading, drainage, and erosion control plans for water quality, rate control, and erosion and sediment control; meeting with Minnehaha Creek WD staff; prepare and send comment letter to city staff; and review resubmittal.

James P. Herbert, Principal Engineer/Scientist 6.6 hours @ \$205.00 per hour	\$ 1,353.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.4 hours @ \$125.00 per hour	\$ 50.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 9.8 hours @ \$105.00 per hour	\$ <u>1,029.00</u>
<i>Subtotal, Parkera Plymouth (2021-38)</i>	\$ 2,432.00

Century Townhomes (2022-01)

Review resubmittal for water quality, rate control, and erosion and sediment control; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.8 hours @ \$205.00 per hour	\$ 369.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.9 hours @ \$105.00 per hour	\$ <u>94.50</u>
<i>Subtotal, Century Townhomes (2022-01)</i>	\$ 463.50

Morries Hyundai Addition SLP (2022-02)

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

James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$205.00 per hour	\$ 615.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.9 hours @ \$105.00 per hour	\$ <u>304.50</u>
<i>Subtotal, Morries Hyundai Addition SLP (2022-02)</i>	\$ 919.50

Vicksburg Lane Improvements (2022-03)

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

James P. Herbert, Principal Engineer/Scientist 3.9 hours @ \$205.00 per hour	\$ 799.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 6.6 hours @ \$105.00 per hour	\$ 693.00
Technicians/Administrative	\$ <u>105.00</u>
<i>Subtotal, Vicksburg Lane Improvements (2022-03)</i>	\$ 1,597.50

Bryn Mawr Meadows Park Improvements (2022-04)

Review grading, drainage, and erosion control plans for water quality, rate control, work in the

Bassett Creek floodplain, and erosion and sediment control; prepare and send comment letter to city staff; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 3.1 hours @ \$205.00 per hour	\$	943.00
Karen L. Chandler, Principal Engineer/Scientist 0.7 hours @ \$190.00 per hour	\$	133.00
Josh P. Phillips, Engineer/Scientist/Specialist II 2.4 hours @ \$125.00 per hour	\$	300.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 9.8 hours @ \$105.00 per hour	\$	1,029.00
Technicians/Administrative	\$	<u>52.50</u>
<i>Subtotal, Bryn Mawr Meadows Park Improvement (2022-04).....</i>	<i>\$</i>	<i>2,457.50</i>

Bassett Creek Dog Park (2022-05)

Meeting with Crystal staff and developer regarding proposed project and potential floodplain issues; review grading, drainage, and erosion control plans for work in the Bassett Creek floodplain and erosion and sediment control; prepare and send comment letter to city staff; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 6.8 hours @ \$205.00 per hour	\$	1,394.00
Karen L. Chandler, Principal Engineer/Scientist 2.0 hours @ \$190.00 per hour	\$	380.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 4.9 hours @ \$105.00 per hour	\$	514.50
Technicians/Administrative	\$	<u>157.50</u>
<i>Subtotal, Bassett Creek Dog Park (2022-05)</i>	<i>\$</i>	<i>2,446.00</i>

Subtotal, 1020—Development/Project Reviews\$ 16,435.50

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Communications with city staff and consultant regarding floodplain elevation at site along South Shore Dr. in Plymouth; review floodplain elevations for future potential project site at 18035 Old Rockford Road in Plymouth and communications with owner (found floodplain is not BCWMC jurisdictional floodplain); communications with Golden Valley staff regarding need for BCWMC review of Brookview Golf Course irrigation maintenance project; review MDNR permit application for Vicksburg Lane project in Plymouth (culvert into Plymouth Creek); and communications with future applicant regarding West Health project site in Plymouth.

James P. Herbert, Principal Engineer/Scientist 5.1 hours @ \$205.00 per hour	\$	1,045.5
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.9 hours @ \$105.00 per hour	\$	<u>94.50</u>

Subtotal, Preliminary Reviews \$ 1,140.00
Subtotal, 1030— Non-Fee and Preliminary Reviews \$ **1,140.00**

1040—Commission and TAC Meetings

Attend March 17 Commission meeting (virtual) and March 18 TAC meeting (virtual).

James P. Herbert, Principal Engineer/Scientist
 2.0 hours @ \$205.00 per hour \$ 410.00
 Karen L. Chandler, Principal Engineer/Scientist
 3.9 hours @ \$190.00 per hour \$ 741.00
Subtotal, 1040—Commission and TAC Meetings..... \$ **1,151.00**

1050—Surveys and Studies

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

1060—Water Quality/Monitoring

General Water Quality

Review Medicine Lake Lake Vegetation Management Plan and communications with administrator and internal staff regarding the plan; communications with administrator and internal staff regarding chloride monitoring of Sweeney and Crane Lakes and potential MCES CAMP pilot program in 2022; and communications with administrator and internal staff regarding acknowledgement of BCWMC in aquatic plant management article.

Karen L. Chandler, Principal Engineer/Scientist
 4.0 hours @ \$190.00 per hour \$ 760.00
 Margaret R. Rattei, Engineer/Scientist/Specialist III
 2.2 hours @ \$150.00 per hour \$ 330.00
 Technicians/Administrative \$ 38.00
Subtotal, General Water Quality..... \$ 1,128.00

Westwood-Crane Lake 2021 Monitoring Report

Project management and internal communications.

Margaret R. Rattei, Engineer/Scientist/Specialist III
 0.3 hours @ \$150.00 per hour \$ 45.00
Subtotal, Westwood-Crane Lake 2021 Monitoring Report..... \$ 45.00

Sweeney Branch Report

Project management and internal communications.

Margaret R. Rattei, Engineer/Scientist/Specialist III
 0.9 hours @ \$150.00 per hour \$ 135.00
Subtotal, Sweeney Branch Report..... \$ 135.00

Northwood Lake & Lost Lake 2022 Monitoring

Prepare for 2022 monitoring season, including order bottles and set up chain-of-custody.

Margaret R. Rattei, Engineer/Scientist/Specialist III 0.3 hours @ \$150.00 per hour	\$ 45.00
Terri Olson, Engineer/Scientist/Specialist III 0.4 hours @ \$155.00 per hour	\$ 62.00
Technicians/Administrative	\$ <u>123.50</u>
<i>Subtotal, Northwood Lake & Lost Lake 2022 Monitoring.....</i>	<i>\$ 230.50</i>

Plymouth Creek Monitoring Year 1

Complete QA/QC review of remaining 2021 data; check on battery and modem connection; review and approve MCES fourth quarter 2021 lab invoice; expenses include Verizon wireless charges for the monitoring station.

Chris Bonick, Engineer/Scientist/Specialist III 4.0 hours @ \$135.00 per hour	\$ 405.00
Expenses (Verizon)	\$ 44.08
Expenses (Metropolitan Council).....	\$ <u>730.95</u>
<i>Subtotal, Plymouth Creek Monitoring Year 1.....</i>	<i>\$ 1,180.03</i>
Subtotal, 1060—Water Quality/Monitoring.....	\$ 2,853.53

1070—Water Quantity

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

Technicians/Administrative	\$ 494.00
Expenses (Vehicle/Mileage/Survey Set)	\$ <u>90.63</u>
Subtotal, 1070—Water Quantity	\$ 584.63

1080—Annual Flood Control Project Inspections

Prepare/review/edit tunnel technology inspection matrix and review/edit TAC agenda for March 18 TAC meeting; and communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist 13.1 hours @ \$205.00 per hour	\$ 2685.50
Karen L. Chandler, Principal Engineer/Scientist 2.1 hours @ \$190.00 per hour	\$ <u>399.00</u>
Subtotal, 1080—Annual Flood Control Project Inspections.....	\$ 3,084.50

1100—Watershed Outlet Monitoring Program

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

1110—XPSWMM Model Updates/Reviews

Complete XPSWMM model updates; perform QA/QC of model results; rerun model based on QA/QC review; prepare table comparing model results with FEMA update model results; update table of model results; and communications with internal staff.

Jen Koehler, Engineer/Scientist/Specialist IV 3.4 hours @ \$165.00 per hour	\$ 561.00
Lulu Fang, Engineer/Scientist/Specialist II 33.6 hours @ \$120.00 per hour	\$ 4,032.00
Subtotal, 1110—XPSWMM Model Updates/Reviews	\$ 4,593.00

1120—TMDL Implementation Reporting

Subtotal, 1120—TMDL Implementation Reporting	\$ 0.00
SUBTOTAL, 1000—ENGINEERING & MONITORING	\$ 42,973.16

2000—PLANNING

2010—Next Generation Plan Development

Meetings with administrator on March 1 to finalize project scope plan update scope and discuss stakeholder engagement, and on March 31 to discuss stakeholder engagement and next steps; project set-up; prepare Plan update notification letter for state agencies, and communications with administrator and internal staff.

Karen L. Chandler, Principal Engineer/Scientist 5.6 hours @ \$190.00 per hour	\$ 1,064.00
Greg Williams, Engineer/Scientist/Specialist III 6.5 hours @ \$155.00 per hour	\$ 1,007.50
Technicians/Administrative	\$ 33.00
Subtotal, 2010—Next Generation Plan Development.....	\$ 2,104.50
SUBTOTAL, 2000—PLANNING.....	\$ 2,104.50

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

Internal communications regarding assignments for annual report.

Karen L. Chandler, Principal Engineer/Scientist 0.5 hours @ \$190.00 per hour	\$ 95.00
Subtotal, 4010—Publications/Annual Report	\$ 95.00
SUBTOTAL, 4000—OUTREACH & EDUCATION	\$ 95.00

CAPITAL IMPROVEMENT PROJECTS

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

Perform Post Alum Treatment Monitoring

Follow-up on CAMP/chloride monitoring questions, and prepare for 2022 monitoring season, including order bottles and set up chain-of-custody.

Gregory Wilson, Engineer/Scientist/Specialist IV 1.2 hours @ \$180.00 per hour	\$ 216.00
---	-----------

Technicians/Administrative	\$	138.00
<i>Subtotal, Sweeney Lake Water Quality Impro Project (2020)(SL-8)....</i>		<i>354.00</i>

Schaper Pond Carp Management (SL-3)

Prepare draft memo for Commission meeting regarding carp monitoring and management actions and send to administrator for review; and internal communications regarding draft memo and fish stocking.

Karen L. Chandler, Principal Engineer/Scientist 3.1 hours @ \$190.00 per hour	\$	589.00
Janna Kieffer, Engineer/Scientist/Specialist IV 0.2 hours @ \$185.00 per hour	\$	37.00
Gregory Wilson, Engineer/Scientist/Specialist IV 6.5 hours @ \$180.00 per hour	\$	1,170.00
<i>Subtotal, Schaper Pond Carp Management (SL-3).....</i>		<i>1,796.00</i>

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

Internal meetings and discussions regarding WCA and MDNR permit applications; prepare updates to permit applications and figures; virtual meeting with administrator and Commission attorney regarding various legal items; prepare draft response to resident question regarding aquatic benches in the lagoons, including coordination with MPRB and Golden Valley staff; coordination with MPRB staff on various items including permitting, access agreements, site visits, and background data; coordination with MCES staff to obtain sanitary sewer data; restoration discussions; and provide GIS assistance with coordinate conversions.

Karen L. Chandler, Principal Engineer/Scientist 8.0 hours @ \$190.00 per hour	\$	1,520.00
Patrick Brockamp, Engineer/Scientist/Specialist II 17.8 hours @ \$135.00 per hour	\$	2,403.00
Brendan Dougherty, Engineer/Scientist/Specialist II 0.5 hours @ \$120.00 per hour	\$	60.00
Tyler Conley, Engineer/Scientist/Specialist II 9.0 hours @ \$110.00 per hour	\$	990.00
Technicians/Administrative	\$	241.50
<i>Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7)</i>		<i>5,214.50</i>

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

Address comments on 90% design; coordinate with City staff on project drainage areas; prepare for and attend March 17 Commission meeting to present 90% design; support Commission attorney and administrator in developing Construction Cooperative Agreement; coordinate with administrator on project funding options; coordinate with MPRB/SRF staff on integrating plan sets; prepare draft Response Action Plan; field visit in support of draft RAP; and prepare for and attend bi-weekly project coordination meetings with SRF, MPRB, and City staff.

Karen L. Chandler, Principal Engineer/Scientist 6.8 hours @ \$190.00 per hour	\$	1,292.00
--	----	----------

Daniel Fetter Chandler, Principal Engineer/Scientist 6.0 hours @ \$220.00 per hour	\$ 1,320.00
Omid Mohseni, Principal Engineer/Scientist 0.5 hours @ \$210.00 per hour	\$ 105.00
Stephanie Johnson, Consultant/Advisor 53.0 hours @ \$190.00 per hour	\$ 10,070.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 14.5 hours @ \$175.00 per hour	\$ 2,537.50
Michelle Kimble, Engineer/Scientist/Specialist IV 11.1 hours @ \$165.00 per hour	\$ 1,831.50
Jen Koehler, Engineer/Scientist/Specialist IV 5.0 hours @ \$165.00 per hour	\$ 825.00
Greg Fransen, Engineer/Scientist/Specialist III 19.6 hours @ \$145.00 per hour	\$ 2,842.00
Josh P. Phillips, Engineer/Scientist/Specialist II 57.1 hours @ \$125.00 per hour	\$ 7,137.50
Dana Pasi, Engineer/Scientist/Specialist II 0.5 hours @ \$135.00 per hour	\$ 67.50
Kelly Wild, Engineer/Scientist/Specialist II 0.6 hours @ \$115.00 per hour	\$ 69.00
Jacob Daire, Engineer/Scientist/Specialist II 39.3 hours @ \$105.00 per hour	\$ 4,126.50
Technicians/Administrative	\$ 172.00
Expenses (Patrick Slater).....	\$ <u>21.06</u>
<i>Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)</i>	<i>\$ 32,416.56</i>
SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS.....	\$ 39,781.06

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$13,131.00
1020	Development/Project Reviews	\$16,435.50
1030	Non-fee and Preliminary Reviews	\$1,140.00
1040	Commission and TAC Meetings	\$1,151.00
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$2,853.53
1070	Water Quantity	\$584.63
1080	Annual Flood Control Project Inspections	\$3,084.50
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$0.00
1110	Annual XP-SWMM Model Updates/Reviews	\$4,593.00
1120	TMDL Implementation Reporting	\$0.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$42,973.16
2000	PLANNING	
2010	Next Generation Plan Development	\$2,104.50
2000	SUBTOTAL PLANNING	\$2,104.50
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$95.00
4040	2021 Watershed Bicycle Tour	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$95.00
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$39,781.06
TOTAL PAYABLE		\$84,953.72

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.

