



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 # 23270051-2022-4
Project # 23/27-0051
Client # 59
May 6, 2022

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
April 2, 2022 through April 29, 2022

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Communications with administrator and internal staff regarding flagging development reviews for XPSWMM updates to help streamline the model update process; review/update list of CIP projects, update CIP map, provide to administrator for review, and provide GIS CIP project shapefiles to Hennepin County staff (for BCWMC equity workshop); coordination with MPCA staff regarding MTD website in Minnesota Stormwater Manual; attend April 15 virtual meeting with Minneapolis staff and administrator regarding follow-up actions from Bassett Creek Valley floodplain study; attend April 15 in-person annual meeting with St. Louis Park staff and administrator regarding upcoming projects in the Bassett Creek watershed; analyze and summarize 2019-2022 project review revenues and costs, based on year, type of project (municipal, commercial, multi-residential), type of review (erosion control or add-on fee review), etc., and develop revised application fee schedule recommendations for administrator to discuss with Budget Committee; and assist administrator with presenting at April 28 CSWEA tour of BCWMC projects.

James P. Herbert, Principal Engineer/Scientist		
12.6 hours @ \$205.00 per hour.....	\$	2,583.00
Karen L. Chandler, Principal Engineer/Scientist		
14.0 hours @ \$190.00 per hour.....	\$	2,660.00
Jen Koehler, Engineer/Scientist/Specialist IV		
6.7 hours @ \$165.00 per hour.....	\$	1,105.50
Josh P. Phillips, Engineer/Scientist/Specialist II		
1.0 hours @ \$125.00 per hour.....	\$	125.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I		
12.0 hours @ \$105.00 per hour.....	\$	1,260.00
Technicians/Administrative	\$	88.00
<i>Subtotal, Technical Services.....</i>	<i>\$</i>	<i>7,821.50</i>

Monthly Meeting Preparation

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

James P. Herbert, Principal Engineer/Scientist 5.2 hours @ \$205.00 per hour	\$ 1,066.00
Karen L. Chandler, Principal Engineer/Scientist 17.4 hours @ \$190.00 per hour	\$ 3,306.00
Technicians/Administrative	\$ <u>1,306.00</u>
<i>Subtotal, Monthly Meeting Preparation</i>	<i>\$ 5,678.00</i>

TAC Preparation

Communications with administrator, Crystal staff and internal staff regarding May 4 TAC meeting agenda; prepare XPSWMM model update information for May 4 TAC meeting, including table comparing flood elevations and draft presentation; and finalize TAC materials per administrator comments.

Karen L. Chandler, Principal Engineer/Scientist 1.7 hours @ \$190.00 per hour	\$ 323.00
Jen Koehler, Engineer/Scientist/Specialist IV 4.1 hours @ \$165.00 per hour	\$ <u>676.50</u>
<i>Subtotal, TAC Preparation</i>	<i>\$ 999.50</i>
Subtotal 1010—Technical Services	\$ 14,499.00

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; prepare memo for April Commission meeting and provide to administrator; meeting with applicant; prepare and send conditional approval letter to city staff; and communications with city staff and applicant.

James P. Herbert, Principal Engineer/Scientist 7.1 hours @ \$205.00 per hour	\$ 1,455.50
Karen L. Chandler, Principal Engineer/Scientist 1.0 hours @ \$190.00 per hour	\$ 190.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.3 hours @ \$125.00 per hour	\$ 37.50
Edward Anderson, Engineer/Scientist/Specialist I 0.9 hours @ \$105.00 per hour	\$ 94.50

Gabrielle Campagnola, Engineer/Scientist/Specialist I
10.0 hours @ \$105.00 per hour \$ 1,050.00
Subtotal, Meadowbrook ES Park Lot Imp. (2021-09)..... \$ 2,827.50

Parkera Plymouth (2021-38)

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

James P. Herbert, Principal Engineer/Scientist
2.3 hours @ \$205.00 per hour \$ 471.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I
3.5 hours @ \$105.00 per hour \$ 367.50
Subtotal, Parkera Plymouth (2021-38)..... \$ 839.00

Vicksburg Lane Improvements (2022-03)

Prepare and send comments to city staff; review resubmittal for erosion and sediment control; prepare and send approval letter to city staff; and communications with city staff and applicant.

James P. Herbert, Principal Engineer/Scientist
5.0 hours @ \$205.00 per hour \$ 1,025.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I
3.8 hours @ \$105.00 per hour \$ 399.00
Subtotal, Vicksburg Lane Improvements (2022-03)..... \$ 1,424.00

Bryn Mawr Meadows Park Improvements (2022-04)

Review resubmittal for water quality, rate control, work in the Bassett Creek floodplain, and erosion and sediment control; prepare memo for April Commission meeting and provide to administrator; prepare and send approval letter to city staff; and communications with city staff and applicant.

James P. Herbert, Principal Engineer/Scientist
4.2 hours @ \$205.00 per hour \$ 861.00
Karen L. Chandler, Principal Engineer/Scientist
1.2 hours @ \$190.00 per hour \$ 228.00
Josh P. Phillips, Engineer/Scientist/Specialist II
0.3 hours @ \$125.00 per hour \$ 37.50
Edward Anderson, Engineer/Scientist/Specialist I
0.6 hours @ \$105.00 per hour \$ 63.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I
6.5 hours @ \$105.00 per hour \$ 682.50
Technicians/Administrative \$ 52.50
Subtotal, Bryn Mawr Meadows Park Improvement (2022-04)..... \$ 1,924.50

Bassett Creek Dog Park (2022-05)

Review resubmittal for work in the Bassett Creek floodplain and erosion and sediment control; prepare memo for April Commission meeting and provide to administrator, along with selected plan sheets; and follow-up from Commission meeting, including communications with city staff, administrator and internal staff regarding dog park bacteria mitigation and setting up site meeting.

James P. Herbert, Principal Engineer/Scientist 2.2 hours @ \$205.00 per hour	\$ 451.00
Karen L. Chandler, Principal Engineer/Scientist 3.7 hours @ \$190.00 per hour	\$ 703.00
Edward Anderson, Engineer/Scientist/Specialist I 0.6 hours @ \$105.00 per hour	\$ 63.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 5.0 hours @ \$105.00 per hour	\$ 525.00
<i>Subtotal, Bassett Creek Dog Park (2022-05)</i>	<i>\$ 1,742.00</i>

West Health Parking Expansion (2022-06)

Review grading, drainage, and erosion control plans for water quality, rate control, and erosion and sediment control; review historical site drawings and water quality submittals; prepare and send comment letter to city staff; and communications with applicant and city staff.

James P. Herbert, Principal Engineer/Scientist 4.5 hours @ \$205.00 per hour	\$ 922.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 7.2 hours @ \$105.00 per hour	\$ 756.00
Technicians/Administrative	\$ 105.00
<i>Subtotal, West Health Parking Expansion (2022-06)</i>	<i>\$ 1,783.50</i>

Hwy 55 & Hwy 169 Apts (2022-07)

Review grading, drainage, and erosion control plans for water quality, rate control, work in the Bassett Creek floodplain, and erosion and sediment control; and prepare and send comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$205.00 per hour	\$ 615.00
Edward Anderson, Engineer/Scientist/Specialist I 0.4 hours @ \$105.00 per hour	\$ 42.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 9.1 hours @ \$105.00 per hour	\$ 955.50
Technicians/Administrative	\$ 157.50
<i>Subtotal, Hwy 55 & Hwy 169 Apts (2022-07)</i>	<i>\$ 1,770.00</i>

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

Communications with applicant and city staff regarding BCWMC requirements and XP SWMM model user agreement; provide XP SWMM model to city consultant; and provide flood elevation information to applicant and city staff.

James P. Herbert, Principal Engineer/Scientist 3.3 hours @ \$205.00 per hour	\$	676.50
Jen Koehler, Engineer/Scientist/Specialist IV 1.1 hours @ \$165.00 per hour	\$	181.50
Technicians/Administrative	\$	<u>52.50</u>
<i>Subtotal, Bassett Creek Dog Park Ped. Bridge Imp. (2022-08)</i>	\$	910.50

Spire GB (2022-09)

Preliminary review of site plans, coordination with applicant and project set up.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$205.00 per hour	\$	205.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.2 hours @ \$105.00 per hour	\$	21.00
Technicians/Administrative	\$	<u>105.00</u>
<i>Subtotal, Spire GB (2022-09)</i>	\$	331.00

Subtotal, 1020—Development/Project Reviews\$ 13,552.00

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews 3001

Communications with Plymouth staff regarding management of flood fringe areas; communications with St. Louis Park staff regarding 6301 Wayzata Blvd site; follow-up communications with Golden Valley staff regarding Brookview Golf Course irrigation maintenance project; review MDNR permit applications 2022-0213 for CenterPoint project in Medicine Lake and 2022-0463 for Vicksburg Lane storm sewer outlet to Plymouth Creek.

James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$205.00 per hour	\$	<u>717.50</u>
<i>Subtotal, Preliminary Reviews</i>	\$	717.50

Subtotal, 1030— Non-Fee and Preliminary Reviews\$ 717.50

1040—Commission and TAC Meetings

Attend April 21 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 3.7 hours @ \$190.00 per hour	\$	703.00
Gregory Wilson, Engineer/Scientist/Specialist IV 2.5 hours @ \$180.00 per hour	\$	450.00

Expenses (Mileage).....\$ 15.21
Subtotal, 1040—Commission and TAC Meetings.....\$ 1,168.21

1050—Surveys and Studies

Subtotal, 1050—Surveys and Studies\$ 0.00

1060—Water Quality/Monitoring

General Water Quality

Communications with administrator and internal staff regarding MPCA Professional Judgment Group (PJG) meeting, and prepare for and attend April 28 PJG meeting;

Karen L. Chandler, Principal Engineer/Scientist
 0.3 hours @ \$190.00 per hour\$ 57.00
 Gregory Wilson, Engineer/Scientist/Specialist IV
 5.3 hours @ \$180.00 per hour\$ 954.00
 Margaret R. Rattei, Engineer/Scientist/Specialist III
 5.1 hours @ \$150.00 per hour\$ 765.00
Subtotal, General Water Quality.....\$ 1,776.00

Westwood-Crane Lake 2021 Monitoring Report

Communications with internal staff regarding reports and status of the 2021 data submitted to the MPCA EQUIS database.

Margaret R. Rattei, Engineer/Scientist/Specialist III
 0.9 hours @ \$150.00 per hour\$ 135.00
Subtotal, Westwood-Crane Lake 2021 Monitoring Report.....\$ 135.00

Sweeney Branch Report

Communications with MPCA staff regarding the 2020 Sweeney Branch data submitted to the MPCA EQUIS database.

Technicians/Administrative\$ 27.00
Subtotal, Sweeney Branch Report.....\$ 27.00

Northwood Lake & Lost Lake 2022 Monitoring

Prepare for and complete ice-out monitoring on April 18; expenses include vehicle use, mileage, equipment, supplies, and ice used for monitoring.

Technicians/Administrative\$ 663.50
 Expenses (Vehicle/Mileage/Survey Set)\$ 209.78
Subtotal, Northwood Lake & Lost Lake 2022 Monitoring.....\$ 873.28

Plymouth Creek Monitoring Year 1

Expense charges are Verizon Wireless charges for monitoring station.

Expenses (Verizon)	\$	44.08
<i>Subtotal, Plymouth Creek Monitoring Year 1</i>	\$	44.08
Subtotal, 1060—Water Quality/Monitoring	\$	2,855.36

1070—Water Quantity

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

Technicians/Administrative	\$	420.00
Subtotal, 1070—Water Quantity	\$	420.00

1080—Annual Flood Control Project Inspections

Subtotal, 1080—Annual Flood Control Project Inspections	\$	0.00
--	----	-------------

1100—Watershed Outlet Monitoring Program

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

1110—XPSWMM Model Updates/Reviews

Finalize table comparing model results with FEMA update model results.

Jen Koehler, Engineer/Scientist/Specialist IV		
0.3 hours @ \$165.00 per hour	\$	49.50
Lulu Fang, Engineer/Scientist/Specialist II		
2.0 hours @ \$120.00 per hour	\$	240.00
Subtotal, 1110—XPSWMM Model Updates/Reviews	\$	289.50

1120—TMDL Implementation Reporting

P8 Model Update

Review subwatershed divide edits for P8 modeling updates.

Joshua Vosejпка, Engineer/Scientist/Specialist I		
0.5 hours @ \$105.00 per hour	\$	52.50
Subtotal, 1120—TMDL Implementation Reporting	\$	52.50

SUBTOTAL, 1000—ENGINEERING & MONITORING	\$	33,554.07
--	----	------------------

2000—PLANNING

2010—Next Generation Plan Development

Review/edit administrator’s draft stakeholder engagement plan for BWSR review; attend bi-weekly check-in meetings with administrator; prepare Plan update notification letter for cities and provide to administrator; review administrator’s draft fact sheet; provide plan update process example to administrator; and attend April 25 Equity in Watershed Management Workshop.

Karen L. Chandler, Principal Engineer/Scientist 5.8 hours @ \$190.00 per hour	\$ 1,102.00
Greg Williams, Engineer/Scientist/Specialist III 7.0 hours @ \$155.00 per hour	\$ 1,085.00
Subtotal, 2010—Next Generation Plan Development.....	\$ 2,187.00
SUBTOTAL, 2000—PLANNING.....	\$ 2,187.00

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

Complete assigned annual report sections and provide to administrator; and communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$205.00 per hour	\$ 615.00
Karen L. Chandler, Principal Engineer/Scientist 1.6 hours @ \$190.00 per hour	\$ 304.00
Jen Koehler, Engineer/Scientist/Specialist IV 0.5 hours @ \$165.00 per hour	\$ 82.50
Christopher Bonick, Engineer/Scientist/Specialist II 0.5 hours @ \$135.00 per hour	\$ 67.50
Subtotal, 4010—Publications/Annual Report	\$ 1,069.00
SUBTOTAL, 4000—OUTREACH & EDUCATION	\$ 1,069.00

CAPITAL IMPROVEMENT PROJECTS

Jevne Park SW Imp Proj (2020) (ML-21)

Prepare draft/final memo for April Commission meeting regarding proposed scope of work and budget for analysis of alternatives to Jevne Park CIP project; and communications with administrator and internal staff.

Karen L. Chandler, Principal Engineer/Scientist 1.7 hours @ \$190.00 per hour	\$ 323.00
Jen Koehler, Engineer/Scientist/Specialist IV 5.6 hours @ \$165.00 per hour	\$ 924.00
Karen Wold, Engineer/Scientist/Specialist III 0.5 hours @ \$145.00 per hour	\$ 72.50
<i>Subtotal, Jevne Park SW Imp Proj (2020) (ML-21).....</i>	<i>\$ 1,319.50</i>

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

Perform Post Alum Treatment Monitoring

Prepare for and complete ice-out water quality monitoring at Sweeney Lake north and south stations on April 19.

Gregory Wilson, Engineer/Scientist/Specialist IV	
0.5 hours @ \$180.00 per hour	\$ 90.00
Technicians/Administrative	\$ 563.50
Expenses (Vehicle/Mileage/Survey Set)	\$ 193.78
<i>Subtotal, Sweeney Lake Water Quality Impro Project (2020)(SL-8)....</i>	<i>847.28</i>

Schaper Pond Carp Management (SL-3)

Communications with MDNR and fish hatchery staff regarding panfish stocking at Schaper Pond; prepare draft and final versions of memo for April Commission meeting regarding additional work scope involving panfish stocking and contingent box netting of carp; and develop subcontracting agreement with Carp Solutions for carp population surveys and assessment.

Karen L. Chandler, Principal Engineer/Scientist	
2.2 hours @ \$190.00 per hour	\$ 418.00
Gregory Wilson, Engineer/Scientist/Specialist IV	
14.6 hours @ \$180.00 per hour	\$ 2,628.00
<i>Subtotal, Schaper Pond Carp Management (SL-3).....</i>	<i>\$ 3,046.00</i>

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

Internal meetings and discussions regarding WCA and MDNR permit applications; virtual meeting with MDNR staff regarding public waters permit; develop MDNR permit cover letter; update permit applications and figures; incorporate MCES sanitary sewer data into plans and base files; and prepare and send email update to administrator; expenses include Golden Valley WCA permit fees.

Karen L. Chandler, Principal Engineer/Scientist	
3.5 hours @ \$190.00 per hour	\$ 665.00
Patrick Brockamp, Engineer/Scientist/Specialist II	
10.8 hours @ \$135.00 per hour	\$ 1,458.00
Alec Bateman, Engineer/Scientist/Specialist II	
8.8 hours @ \$110.00 per hour	\$ 968.00
Tyler Conley, Engineer/Scientist/Specialist II	
9.7 hours @ \$110.00 per hour	\$ 1,067.00
Expenses (City of Golden Valley)	\$ 150.00
<i>Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7)</i>	<i>\$ 4,308.00</i>

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

Coordination on response and resubmittal to Minneapolis for PDR; update water quality project plans; coordinate with SRF on landscape designs; perform stormwater modeling of final submittal; collection and oversight of groundwater sample to inform management of dewatering during construction; and communications with project partners and internal staff.

Stephanie Johnson, Consultant/Advisor 17.0 hours @ \$190.00 per hour	\$ 3,230.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 0.4 hours @ \$175.00 per hour	\$ 70.00
Fred Rozumalski, Engineer/Scientist/Specialist IV 1.6 hours @ \$175.00 per hour	\$ 280.00
Michelle Kimble, Engineer/Scientist/Specialist IV 10.1 hours @ \$165.00 per hour	\$ 1,666.50
Greg Fransen, Engineer/Scientist/Specialist III 13.2 hours @ \$145.00 per hour	\$ 1,914.00
Josh P. Phillips, Engineer/Scientist/Specialist II 17.9 hours @ \$125.00 per hour	\$ 2,237.50
Brendan Dougherty, Engineer/Scientist/Specialist II 0.6 hours @ \$120.00 per hour	\$ 72.00
Jacob Daire, Engineer/Scientist/Specialist II 21.5 hours @ \$105.00 per hour	\$ 2,257.50
Technicians/Administrative	\$ 154.00
Expenses (Legend Technical Services Inc.)	\$ 353.10
<i>Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)</i>	<i>\$ 12,234.60</i>
SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS.....	\$ 21,755.38

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$14,499.00
1020	Development/Project Reviews	\$13,552.00
1030	Non-fee and Preliminary Reviews	\$717.50
1040	Commission and TAC Meetings	\$1,168.21
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$2,855.36
1070	Water Quantity	\$420.00
1080	Annual Flood Control Project Inspections	\$0.00
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$0.00
1110	Annual XP-SWMM Model Updates/Reviews	\$289.50
1120	TMDL Implementation Reporting	\$52.50
1000	SUBTOTAL ENGINEERING & MONITORING	\$33,554.07
2000	PLANNING	
2010	Next Generation Plan Development	\$2,187.00
2000	SUBTOTAL PLANNING	\$2,187.00
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$1,069.00
4040	2021 Watershed Bicycle Tour	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$1,069.00
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$21,755.38
TOTAL PAYABLE		\$58,565.45

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.

