



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 # 23270051-2021-08
Project # 23/27-0051
Client # 59
November 5, 2021

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
October 2, 2021 through October 29, 2021

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Communications with administrator regarding budget status and Golden Valley comprehensive plan amendment; project management, including preparing for 2022 water quality tasks and other Commission work; review MPCA’s revised draft MTD credit page as part of the MN Stormwater Manual and provide draft comments to MPCA; provide XPSWMM model results information to MDNR staff in response to their request; and miscellaneous communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist 0.7 hours @ \$200.00 per hour.....	\$	140.00
Karen L. Chandler, Principal Engineer/Scientist 4.2 hours @ \$185.00 per hour.....	\$	777.00
Jen Koehler, Engineer/Scientist/Specialist IV 0.3 hours @ \$155.00 per hour.....	\$	46.50
Margaret R. Rattei, Engineer/Scientist/Specialist III 5.4 hours @ \$145.00 per hour.....	\$	783.00
Technicians/Administrative	\$	50.00
<i>Subtotal, Technical Services.....</i>	\$	<i>1,796.50</i>

Parkers Lake Chloride Work Group

Review chloride data and relationships with land use, rainfall and other parameters; prepare presentation for the next work group meeting about Sweeney Lake and Sweeney Lake Branch chlorides, land use and other watershed information; submit presentation to Plymouth consultant; review meeting materials; attend and present at (virtual) October 27 Parkers Lake work group meeting 2.1; and internal communications.

Karen L. Chandler, Principal Engineer/Scientist 12.0 hours @ \$185.00 per hour.....	\$ 2,220.00
Gregory Wilson, Principal Engineer/Scientist 5.6 hours @ \$175.00 per hour	\$ 980.00
<i>Subtotal, Parkers Lake Chloride Work Group</i>	<i>\$ 3,200.00</i>

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for October meeting; review/edit draft September meeting minutes; prepare for October Commission meeting, including review meeting packet, pre-meeting conference call with Chair Cesnik and administrator, providing slides to administrator for North Loop Green project agenda item, and internal communications regarding meeting attendance and presentations; and communications with administrator and internal staff regarding follow-up items from October Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 4.1 hours @ \$200.00 per hour.....	\$ 820.00
Karen L. Chandler, Principal Engineer/Scientist 12.4 hours @ \$185.00 per hour	\$ 2,294.00
Technicians/Administrative	\$ 890.00
<i>Subtotal, Monthly Meeting Preparation</i>	<i>\$ 4,004.00</i>
Subtotal 1010—Technical Services.....	\$ 9,000.50

1020—Development/Project Reviews

Van Heest Retaining Wall (2020-26)

Follow-up communications with City staff regarding project.

James P. Herbert, Principal Engineer/Scientist 0.3 hours @ \$200.00 per hour.....	\$ 60.00
<i>Subtotal, Van Heest Retaining Wall (2020-26).....</i>	<i>\$ 60.00</i>

Wagner Spraytech Phase 3B (2021-23)

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

James P. Herbert, Principal Engineer/Scientist 1.3 hours @ \$200.00 per hour	\$ 260.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.8 hours @ \$115.00 per hour	\$ 92.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.5 hours @ \$95.00 per hour	\$ 142.50
Technicians/Administrative	\$ 50.00
<i>Subtotal, Wagner Spraytech Phase 3B (2021-23).....</i>	<i>\$ 494.50</i>

Academy of Whole Learning (2021-24)

Review grading, drainage, and erosion control plans; 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 3.1 hours @ \$200.00 per hour	\$	620.00
Josh P. Phillips, Engineer/Scientist/Specialist II 1.3 hours @ \$115.00 per hour	\$	149.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.5 hours @ \$95.00 per hour	\$	237.50
Technicians/Administrative	\$	50.00
Expenses (postage)	\$	<u>.53</u>
<i>Subtotal, Academy of Whole Learning (2021-24)</i>	<i>\$</i>	<i>1,057.53</i>

Golden Valley Apartments (2021-25)

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

James P. Herbert, Principal Engineer/Scientist 0.9 hours @ \$200.00 per hour	\$	180.00
Josh P. Phillips, Engineer/Scientist/Specialist II 2.8 hours @ \$115.00 per hour	\$	322.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.6 hours @ \$95.00 per hour	\$	<u>152.00</u>
<i>Subtotal, Golden Valley Apartments (2021-25)</i>	<i>\$</i>	<i>654.00</i>

County Rd 9 & Larch Lane (2021-26)

Review grading, drainage, and erosion control plans; prepare draft comment letter to city staff; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$	200.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.3 hours @ \$115.00 per hour	\$	34.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.2 hours @ \$95.00 per hour	\$	209.00
Technicians/Administrative	\$	<u>30.00</u>
<i>Subtotal, County Rd 9 & Larch Lane (2021-26)</i>	<i>\$</i>	<i>473.50</i>

Kingsview Heights Drainage Prj (2021-27)

Review grading, drainage, and erosion control plans; prepare draft comment letter to city staff; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 0.9 hours @ \$200.00 per hour	\$	180.00
---	----	--------

Josh P. Phillips, Engineer/Scientist/Specialist II 0.3 hours @ \$115.00 per hour	\$ 34.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.9 hours @ \$95.00 per hour	\$ 180.50
Technicians/Administrative	\$ 30.00
<i>Subtotal, Kingsview Heights Drainage Prj (2021-27)</i>	<i>\$ 425.00</i>
Subtotal, 1020—Development/Project Reviews	\$ 3,164.53

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Communications with Plymouth staff regarding flood elevations along Bassett Creek for adjacent proposed project; communications with developer and city staff regarding XP-SWMM model flood elevation results for project at 250 Fremont Ave N. in Minneapolis; communications with consultant regarding redevelopment at Four Seasons Mall; communications with developer and city staff regarding proposed project at 3900 Vinewood in Plymouth; and communications with Commissioner Welch and Minneapolis staff regarding Cedar Lake Road bridge project.

James P. Herbert, Principal Engineer/Scientist 1.6 hours @ \$200.00 per hour	\$ 320.00
Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$185.00 per hour.....	\$ 55.50
Jen Koehler, Engineer/Scientist/Specialist IV 2.5 hours @ \$155.00 per hour	\$ 387.50
<i>Subtotal, Preliminary Reviews</i>	<i>\$ 763.00</i>

Non-Fee Reviews

North Loop Green Phase III Development (over tunnel drop structure)

Numerous communications and virtual meetings with Minneapolis staff, developer, developer’s consultants, administrator, Commission attorney, and internal staff regarding proposed building on top of access to drop shaft in the Bassett Creek tunnel; review proposed building and tunnel construction and emergency access plans; review and edit administrator’s draft email to Minneapolis staff; prepare presentation for October Commission meeting; follow-up communications with Commissioner Welch; and communications with consultant regarding preconstruction inspection of double box culvert.

James P. Herbert, Principal Engineer/Scientist 14.3 hours @ \$200.00 per hour.....	\$ 2,860.00
Karen L. Chandler, Principal Engineer/Scientist 1.9 hours @ \$185.00 per hour	\$ 351.50
Joe Welna, Engineer/Scientist/Specialist IV 1.1 hours @ \$155.00 per hour	\$ 170.50
Eddie Anderson, Engineer/Scientist/Specialist II 1.0 hours @ \$95.00 per hour.....	\$ 95.00

<i>Subtotal, North Loop Green Phase III Development (over drop structure)</i>	<i>\$</i>	<i>3,477.00</i>
<i>Subtotal Non-Fee Reviews</i>	<i>\$</i>	<i>3,477.00</i>
Subtotal, 1030— Non-Fee and Preliminary Reviews	\$	4,240.00

1040—Commission and TAC Meetings

Attend October 21 Commission meeting (virtual).

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$	200.00
Karen L. Chandler, Principal Engineer/Scientist 2.4 hours @ \$185.00 per hour	\$	444.00
Gregory Wilson, Principal Engineer/Scientist 1.5 hours @ \$175.00 per hour	\$	262.50
Subtotal, 1040—Commission and TAC Meetings.....	\$	906.50

1050—Surveys and Studies

XPSWMM Update Data Request

Communications with TAC regarding XPSWMM model update request; set up One Drive folder for information sharing; and internal communications.

Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$185.00 per hour.....	\$	55.50
Jen Koehler, Engineer/Scientist/Specialist IV 1.5 hours @ \$155.00 per hour.....	\$	232.50
Subtotal, 1050—Surveys and Studies	\$	288.00

1060—Water Quality/Monitoring

General Water Quality

Complete Sweeney Branch chloride loading analysis, prepare draft memo and presentation for October Commission meeting and provide to administrator for review, review revised memo, and revise/final presentation per administrator comments, and communications with administrator and internal staff and regarding Sweeney Lake chloride impairment; communications with administrator and internal staff regarding Sweeney Lake biofilm and recommended oxygen sensors for Lost Lake; and upload BCWMC water quality data for submittal to MPCA.

Karen L. Chandler, Principal Engineer/Scientist 1.8 hours @ \$185.00 per hour	\$	333.00
Timothy Anderson, Engineer/Scientist/Specialist IV 2.7 hours @ \$165.00 per hour	\$	445.50
Gregory Wilson, Principal Engineer/Scientist 15.6 hours @ \$175.00 per hour.....	\$	2,730.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 1.8 hours @ \$145.00 per hour	\$	261.00

Joshua Vosejka, Engineer/Scientist/Specialist II	
1.5 hours @ \$100.00 per hour	\$ 150.00
Technicians/Administrative	\$ 37.50
<i>Subtotal, General Water Quality.....</i>	<i>\$ 3,957.00</i>

Sweeney Branch Monitoring Year 2

Perform monitoring station maintenance, including replacing battery and resetting/reconnecting modem; set up station for storm sampling; prepare for and collect October 20 storm sample and October 26 grab sample; complete site reconnaissance for continuous dissolved oxygen monitoring and prepare, program, test, install, and remove dissolved oxygen sensors; expenses include Verizon Wireless charges for monitoring station, mileage charges, vehicle and equipment charges, and laboratory charges for sample analyses.

Margaret R. Rattei, Engineer/Scientist/Specialist III	
1.7 hours @ \$145.00 per hour	\$ 246.50
Chris Bonick, Engineer/Scientist/Specialist III	
11.5 hours @ \$135.00 per hour	\$ 1,485.00
Kallie Doeden, Engineer/Scientist/Specialist II	
0.4 hours @ \$110.00 per hour	\$ 44.00
Heather Lau, Engineer/Scientist/Specialist II	
1.0 hours @ \$120.00 per hour	\$ 120.00
Kyle Weisshahn, Engineer/Scientist/Specialist II	
1.1 hours @ \$95.00 per hour	\$ 104.50
Technicians/Administrative.....	\$ 240.00
Subconsultant (MCES).....	\$ 595.75
Expenses (Verizon/Mileage/vehicle/ice/Turbidimeter/Conductivity Meter)	\$ 307.68
<i>Subtotal, Sweeney Branch Monitoring Year 2.....</i>	<i>\$ 3,143.43</i>

Parkers Lake 2021 Monitoring

Communications with Three Rivers Park District staff and arrange for courier pick up of 2021 phytoplankton and zooplankton samples; analyze Parkers Lake zooplankton samples collected during April through August and phytoplankton samples collected during April through September; expenses are courier charges.

Margaret R. Rattei, Engineer/Scientist/Specialist III	
25.5 hours @ \$145.00 per hour.....	\$ 3,697.50
Technicians/Administrative.....	\$ 34.50
Expenses (Courier).....	\$ 20.24
<i>Subtotal, Parkers Lake 2021 Monitoring.....</i>	<i>\$ 3,752.24</i>

Westwood Lake 2021 Monitoring

Complete data summaries for report, including input files for isopleths and historical phytoplankton and zooplankton data summaries.

Margaret R. Rattei, Engineer/Scientist/Specialist III
 6.1 hours @ \$145.00 per hour \$ 884.50
Subtotal, Westwood Lake 2021 Monitoring \$ 884.50

Crane Lake 2021 Monitoring

Analyze Crane Lake phytoplankton sample collected on September 9; complete data summaries for report, including input files for isopleths and historical phytoplankton and zooplankton summaries.

Margaret R. Rattei, Engineer/Scientist/Specialist III
 17.2 hours @ \$145.00 per hour \$ 2,494.00
Subtotal, Crane Lake 2021 Monitoring \$ 2,494.00

Subtotal, 1060—Water Quality/Monitoring \$ **14,231.17**

1070—Water Quantity

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

1080—Annual Flood Control Project Inspections

Prepare/final annual flood control project inspection report, and provide to administrator for October Commission meeting.

James P. Herbert, Principal Engineer/Scientist
 8.3 hours @ \$200.00 per hour \$ 1,660.00

Karen L. Chandler, Principal Engineer/Scientist
 1.4 hours @ \$185.00 per hour \$ 259.00

Patrick Brockamp, Engineer/Scientist/Specialist III
 1.0 hours @ \$95.00 per hour \$ 125.00

Josh P. Phillips, Engineer/Scientist/Specialist II
 5.8 hours @ \$115.00 per hour \$ 667.00

Expenses (Mileage)..... \$ 35.84

Subtotal, Annual Flood Control Project Inspections \$ **2,746.84**

1100—Watershed Outlet Monitoring Program

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

1120—TMDL Implementation Reporting

P8 Model Update (7,000)

Communications with TAC regarding P8 model update request; and internal communications.

Gregory Wilson, Principal Engineer/Scientist
 1.0 hours @ \$175.00 per hour \$ 175.00

Subtotal, 1120—TMDL Implementation Reporting \$ **175.00**

SUBTOTAL, 1000—ENGINEERING & MONITORING \$ **34,752.54**

2000—PLANNING

2010—Next Generation Plan Development

Edit/final notes from internal meeting and provide to administrator; attend October 5 in-person meeting with administrator to discuss the 2025 plan process, potential studies, stakeholder engagement, and new/ongoing issues; internal meeting to discuss next steps; communications with administrator regarding next meeting, next steps, and potential equity workshop; provide updated meeting notes to administrator; and internal meeting to discuss equity workshop.

Karen L. Chandler, Principal Engineer/Scientist 12.5 hours @ \$185.00 per hour.....	\$ 2,312.50
Stephanie Johnson, Consultant/Advisor 3.3 hours @ \$190.00 per hour	\$ 627.00
Greg Williams, Engineer/Scientist/Specialist III 3.5 hours @ \$150.00 per hour	\$ 525.00
Subtotal, 2010—Next Generation Plan Development.....	\$ 3,464.50
SUBTOTAL, 2000—PLANNING.....	\$ 3,464.50

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

Subtotal, 4010—Publications/Annual Report	\$ 0.00
SUBTOTAL, 4000—OUTREACH & EDUCATION	\$ 0.00

CAPITAL IMPROVEMENT PROJECTS

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

Complete draft EAW, including internal QAQC review, internal discussions, text/figure updates, and volume calculations for material removed above the OHW; communications with the RGU regarding the EAW and review process; send draft EAW to administrator for October Commission meeting; communications with MDNR requesting review and concurrence for potential effects on rare natural resources; and submit EAW to RGU for review and approval.

Karen L. Chandler, Principal Engineer/Scientist 6.5 hours @ \$185.00 per hour	\$ 1,202.50
Patrick Brockamp, Engineer/Scientist/Specialist III 3.6 hours @ \$125.00 per hour	\$ 450.00
Amy Meulebroeck, Engineer/Scientist/Specialist III 2.3 hours @ \$125.00 per hour	\$ 287.50
Edward Anderson, Engineer/Scientist/Specialist II 1.3 hours @ \$95.00 per hour	\$ 123.50
Jessica Butler, Engineer/Scientist/Specialist II 1.4 hours @ \$120.00 per hour	\$ 168.00

Tyler Conley, Engineer/Scientist/Specialist II 9.2 hours @ \$100.00 per hour	\$ 920.00
Alec Bateman, Engineer/Scientist/Specialist II 3.6 hours @ \$100.00 per hour	\$ 360.00
Tyler Seiboldt, Engineer/Scientist/Specialist I 0.5 hours @ \$100.00 per hour	\$ <u>50.00</u>
<i>Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7)</i>	<i>\$ 3,438.00</i>

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

Prepare for and attend October 5 open house at Bryn Mawr Meadows Park and prepare notes from open house; review concept design provided by MPRB team; set up CAD drawing files for project; prepare for and attend October 13 project meeting with MPRB team; and communications with project partners and internal staff.

Karen L. Chandler, Principal Engineer/Scientist 1.4 hours @ \$185.00 per hour	\$ 259.00
Stephanie Johnson, Consultant/Advisor 5.7 hours @ \$190.00 per hour	\$ 1,083.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 0.8 hours @ \$165.00 per hour	\$ 132.00
Michelle Kimble, Engineer/Scientist/Specialist IV 6.3 hours @ \$155.00 per hour	\$ 976.50
Josh P. Phillips, Engineer/Scientist/Specialist II 7.3 hours @ \$115.00 per hour	\$ 839.50
Jacob Daire, Engineer/Scientist/Specialist II 8.4 hours @ \$95.00 per hour	\$ 798.00
Expenses (Mileage).....	\$ <u>35.84</u>
<i>Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)</i>	<i>\$ 4,123.84</i>
SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS.....	\$ 7,561.84

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$ 9,000.50
1020	Development/Project Reviews	\$ 3,164.53
1030	Non-fee and Preliminary Reviews	\$ 4,240.00
1040	Commission and TAC Meetings	\$ 906.50
1050	Surveys and Studies	\$ 288.00
1060	Water Quality/Monitoring	\$ 14,231.17
1070	Water Quantity	\$
1080	Annual Flood Control Project Inspections	\$ 2,746.84
1090	Municipal Plan Review	\$
1100	Watershed Outlet Monitoring Program	\$
1110	Annual XP-SWMM Model Updates/Reviews	\$
1120	TMDL Implementation Reporting	\$ 175.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$ 34,752.54
2000	PLANNING	
2010	Next Generation Plan Development	\$ 3,464.50
2000	SUBTOTAL PLANNING	\$ 3,464.50
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$ -
4040	2021 Watershed Bicycle Tour	\$ -
4000	SUBTOTAL OUTREACH & EDUCATION	\$ -
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$ 7,561.84
TOTAL PAYABLE		\$ 45,778.88

Barr declares under the penalties of law that this account, claim, or demand is just and that no part of it has been paid.

Jim Herber