Item 4Ciii.



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

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Invoice # 23270051-2021-11

Project # 23/27-0051

Client # 59 January 7, 2021

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of November 27, 2021 through December 31, 2021

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Attend MPCA's December 6 virtual chloride site design meeting and follow up email to administrator and internal staff; communications with Medicine Lake consultant regarding Medicine Lake floodplain; communications with administrator and internal staff regarding MAISRC plant survey data request and theft of WOMP station equipment; review MPCA's list of questions and revised draft MTD credit page as part of the MN Stormwater Manual, attend December 21 virtual MTD work group meeting and provide draft comments to MPCA staff; and MPCA climate resiliency grant application: December 6 virtual meeting with administrator regarding grant scope and next steps; review/edit administrator's draft email to TAC regarding vulnerable communities, review/edit administrator's draft MPCA grant application; prepare draft workplan, budget, and social vulnerability map; December 20 virtual meeting with administrator regarding grant application and workplan edits; and review/edit grant application and workplan and send to administrator for final review and submittal.

James P. Herbert, Principal Engineer/Scientist 5.2 hours @ \$200.00 per hour\$	1,040.00
Karen L. Chandler, Principal Engineer/Scientist 10.2 hours @ \$185.00 per hour\$	1,887.00
Gregory Wilson, Engineer/Scientist/Specialist IV 1.5 hours @ \$175.00 per hour\$	262.50
Jen Koehler, Engineer/Scientist/Specialist IV	
11.9 hours @ \$155.00 per hour\$	1,844.50
Josh P. Phillips, Engineer/Scientist/Specialist II 3.3 hours @ \$115.00 per hour\$	379.50
Joshua Vosejpka, Engineer/Scientist/Specialist II	
1.2 hours @ \$100.00 per hour\$_	120.00
Subtotal, Technical Services\$	5,533.50

Parkers Lake Chloride Work Group

Prepare for and attend virtual December 17 Parkers Lake chloride work group meeting, including review potential chloride BMPs; review post-meeting BMP list; respond to survey; and communications with Plymouth staff.

Karen L. Chandler, Principal Engineer/Scientist	
5.1 hours @ \$185.00 per hour\$_	943.50
Subtotal, Parkers Lake Chloride Work Group\$	943.50

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for December meeting; review/edit draft November meeting minutes; prepare for December 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 December Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist	600.00
3.4 hours @ \$200.00 per hour\$	680.00
Karen L. Chandler, Principal Engineer/Scientist	
13.0 hours @ \$185.00 per hour\$	2,405.00
Technicians/Administrative\$_	693.00
Subtotal, Monthly Meeting Preparation\$	3,778.00

TAC Preparation

Review/edit TAC memo for December Commission meeting, and communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist	
1.6 hours @ \$200.00 per hour\$	320.00
Karen L. Chandler, Principal Engineer/Scientist	
0.8 hours @ \$185.00 per hour\$_	148.00
Subtotal, TAC Preparation\$	468.00
Subtotal 1010—Technical Services\$	10,723.00

1020—Development/Project Reviews

Medtronic PNL Warehouse Addition (2021-17)

Project close-out, including documentation, tracking and filing.

Gabrielle Campagnola, Engineer/Scientist/Specialist II		
0.2 hours @ \$95.00 per hour	·	19.00
Subtotal, Medtronic PNL Warehouse Addition (2021-17)	5	19.00

Parkers Lake Commerce Center (2021-19)

Project close-out, including documentation, tracking and filing.

Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.2 hours @ \$95.00 per hour	\$	19.00
Subtotal, Parkers Lake Commerce Center (2021-19)	\$	19.00
L&W Supply Co. Parking Lot (2021-20) Project close-out, including documentation, tracking and filing.		
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.3 hours @ \$95.00 per hour	\$	28.50
Subtotal, L&W Supply Co. Parking Lot (2021-20)	\$	28.50
Wagner Spraytech Phase 3B (2021-23) Review resubmittal for water quality, rate control, and erosion and sediment comment letter to city staff.	control; an	d prepare d
James P. Herbert, Principal Engineer/Scientist 0.6 hours @ \$200.00 per hour	\$	120.00
Josh P. Phillips, Engineer/Scientist/Specialist II 2.4 hours @ \$115.00 per hour	\$	276.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 6.5 hours @ \$95.00 per hour	\$	617.50
Subtotal, Wagner Spraytech Phase 3B (2021-23)	\$	1,013.50
Golden Valley Apartments (2021-25) Review revised plans and resubmittal for water quality, rate control, and control; prepare and send approval letter to city staff; and communication		
James P. Herbert, Principal Engineer/Scientist 0.9 hours @ \$200.00 per hour	\$	180.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.8 hours @ \$115.00 per hour	\$	92.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.2 hours @ \$95.00 per hour	\$	209.00
Technicians/Administrative	\$	50.00
Subtotal, Golden Valley Apartments (2021-25)	\$	531.00
County Rd 9 & Larch Lane (2021-26) Project close-out, including documentation, tracking and filing.		
Josh P. Phillips, Engineer/Scientist/Specialist II 0.2 hours @ \$115.00 per hour	\$	23.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.2 hours @ \$95.00 per hour	\$	19.00
Subtotal, County Rd 9 & Larch Lane (2021-26)	\$	42.00
Kingsview Heights Drainage Proj (2021-27)		

Project close-out, including documentation, tracking and filing.

Josh P. Phillips, Engineer/Scientist/Specialist II 0.2 hours @ \$115.00 per hour	\$	23.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.2 hours @ \$95.00 per hour	\$	19.00
Subtotal, Kingsview Heights Drainage Proj (2021-27)	\$	42.00
GV 2022 PMP-Brentwood (2021-28) Review grading, drainage, and erosion control plans; prepare review memo for Commission meeting; prepare and send comment letter to city staff; and commapplicant.		
James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$200.00 per hour	\$	560.00
Karen L. Chandler, Principal Engineer/Scientist 0.5 hours @ \$185.00 per hour	\$	92.50
Josh P. Phillips, Engineer/Scientist/Specialist II 1.8 hours @ \$115.00 per hour	\$	207.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 4.2 hours @ \$95.00 per hour	\$	399.00
Edward Anderson, Engineer/Scientist/Specialist II 0.8 hours @ \$95.00 per hour	\$	76.00
Subtotal, GV 2022 PMP-Brentwood (2021-28)	\$	1,334.50
Chick-Fil-A Plymouth (2021-29) Review grading, drainage, and erosion control plans for water quality, rate corsediment control; prepare and send comment letter to city staff; review resubsend approval letter to city staff.		
James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$200.00 per hour	\$	700.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.4 hours @ \$115.00 per hour	\$	46.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 7.9 hours @ \$95.00 per hour	\$	750.5 <u>0</u>
Subtotal, Chick-Fil-A Plymouth (2021-29)	\$	1,496.50
Ridgedale Sears Redevel – Dicks Sports (2021-30) Review grading, drainage, and erosion control plans for water quality, rate corsediment control; prepare and send draft comments to applicant and city staff prepare draft review memo for Commission meeting; and communications with	; revie	ew resubmittal;
James P. Herbert, Principal Engineer/Scientist 1.8 hours @ \$200.00 per hour	\$	360.00
Josh P. Phillips, Engineer/Scientist/Specialist II 2.2 hours @ \$115.00 per hour	\$	253.00

Gabrielle Campagnola, Engineer/Scientist/Specialist II 7.9 hours @ \$95.00 per hour	\$	750.50
Subtotal, Ridgedale Sears Redevel – Dicks Sports (2021-30)	\$	1,363.50
Greenway Villas (2021-31) Review grading, drainage, and erosion control plans for floodplain and erosion and coordination with administrator, city staff and applicant regarding land use change and review procedure; prepare and send comment letter to city staff; review land u XPSWMM model to incorporate new development; and communications with admapplicant.	and se ch	floodplain issues ange and revise
James P. Herbert, Principal Engineer/Scientist 9.7 hours @ \$200.00 per hour	\$	1,940.00
Jen Koehler, Engineer/Scientist/Specialist IV 0.7 hours @ \$155.00 per hour	\$	108.50
Lulu Fang, Engineer/Scientist/Specialist II 4.0 hours @ \$115.00 per hour	\$	460.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.3 hours @ \$115.00 per hour	\$	34.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 8.4 hours @ \$95.00 per hour	\$	798.00
Subtotal, Greenway Villas (2021-31)	\$	3,341.00
Crystal 2022 Util Reconstruc (2021-32) Coordination with applicant and city staff; and project set up and preliminary review	W.	
James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	\$	100.00

Wirth on the Woods (2021-33)

Coordination with applicant and city staff; project set up and preliminary review.

Subtotal, 1020—Development/Project Reviews\$	9,567.50
Subtotal, Wirth on the Woods (2021-33)\$	100.00
0.5 hours @ \$200.00 per hour\$_	100.00
James P. Herbert, Principal Engineer/Scientist	

Subtotal, Crystal 2022 Util Reconstruc (2021-32)\$

0.2 hours @ \$185.00 per hour.....\$

Technicians/Administrative\$___

37.00

100.00

237.00

1030—Non-Fee and Preliminary Reviews

Karen L. Chandler, Principal Engineer/Scientist

Preliminary Reviews

Provide Flood Control Project plans to Crystal staff; communications with potential applicant and city staff regarding Vicksburg Lane project in Plymouth; and review MDNR permit application No. 2021-3820 and provide email comments to administrator.

James P. Herbert, Principal Engineer/Scientist	
1.1 hours @ \$200.00 per hour	\$ 220.00
Subtotal, Preliminary Reviews\$	\$ 220.00

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, and internal staff regarding proposed access to drop shaft in the Bassett Creek tunnel; review developer's tunnel shaft access plan and provide comments; review crack gauge installation plan and develop a safety plan for tunnel access to install crack gauges; assist with installation of crack gauges in the tunnel; communications with city and developer regarding crack gauge installation; review base-line crack monitoring photos provided by the city; and review vibration monitoring reports provided by the developer.

Subtotal, 1040—Commission and TAC Meetings\$	592.00
Karen L. Chandler, Principal Engineer/Scientist 3.2 hours @ \$185.00 per hour\$\$	592.00
1040—Commission and TAC Meetings Attend December 16 Commission meeting (virtual).	
Subtotal, 1030— Non-Fee and Preliminary Reviews\$	7,078.74
Subtotal Non-Fee Reviews\$	6,858.74
Subtotal, North Loop Green Phase III Development (over drop structure)\$	6,858.74
	33.24
Tyler Fincher, Engineer/Scientist/Specialist II 15.1 hours @ \$120.00 per hour\$ Expenses (mileage/parking)\$	1,812.00 39.24
Joe Welna, Engineer/Scientist/Specialist IV 2.5 hours @ \$155.00 per hour\$	387.50
James P. Herbert, Principal Engineer/Scientist 23.1 hours @ \$200.00 per hour\$	4,620.00

1050—Surveys and Studies

XPSWMM Model Update Data Request

Compile provided information; update XPSWMM model; and communications with TAC and internal staff.

Jen Koehler, Engineer/Scientist/Specialist IV	
2.2 hours @ \$155.00 per hour\$	341.00
Lulu Fang, Engineer/Scientist/Specialist II	
12.9 hours @ \$115.00 per hour\$_	1,483.50

Subtotal, 1050—Surveys and Studies\$ 1,824.50

1060—Water Quality/Monitoring

General Water Quality

Communications with administrator and internal staff responding to administrator's questions about the listing of Bassett Creek on the MPCA's 2022 draft impaired waters list for macroinvertebrates; prepare memo for December Commission meeting regarding 2022 draft impairment listing for macroinvertebrates; and finalize 2020 lake and stream data for submittal to the MPCA's EQuIS database.

Karen L. Chandler, Principal Engineer/Scientist 0.7 hours @ \$185.00 per hour	\$ 129.50
Margaret R. Rattei, Engineer/Scientist/Specialist III	
2.5 hours @ \$145.00 per hour	\$ 362.50
Technicians/Administrative	\$ 161.50
Subtotal, General Water Quality	\$ 653.50

Sweeney Branch Monitoring Year 2

Collect November 30 grab sample; perform monitoring station maintenance, including replacing battery; set up station for snowmelt sampling and collect December 17 snowmelt sample, acid wash sample bottles; perform QA/QC on 2021 monitoring data and load 2021 monitoring data to Barr's EQuIS database; expenses include Verizon Wireless charges for monitoring station, mileage charges, and vehicle and equipment charges.

Margaret R. Rattei, Engineer/Scientist/Specialist III 0.8 hours @ \$145.00 per hour\$	116.00
Chris Bonick, Engineer/Scientist/Specialist III 52.0 hours @ \$135.00 per hour\$	7,020.00
Kallie Doeden, Engineer/Scientist/Specialist II 3.1 hours @ \$110.00 per hour\$	341.00
Technicians/Administrative\$	332.50
Expenses (Verizon/Mileage/ice/vehicle)\$_	170.74
Subtotal, Sweeney Branch Monitoring Year 2\$	7,980.24

Parkers Lake 2021 Monitoring

Prepare summary of 2021 data; communications with TRPD staff and internal staff regarding submittal of 2021 data to the MPCA's EQuIS database and RPD invoice; expense is TRPD invoice for 2021 monitoring and lab analyses.

Margaret R. Rattei, Engineer/Scientist/Specialist III	
24.7 hours @ \$145.00 per hour\$	3,581.50
Technicians/Administrative\$	574.00
Subconsultant (Three Rivers Park District Administrative Center)\$_	3,152.00
Subtotal, Parkers Lake 2021 Monitoring\$	7,307.50

Westwood Lake 2021 Monitoring Load 2021 monitoring data to Barr's EQuIS database and prepare summary of	2021	data.
Terri Olson, Engineer/Scientist/Specialist III 0.2 hours @ \$150.00 per hour		30.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 1.5 hours @ \$145.00 per hour		217.50
Technicians/Administrative		409.00
Subtotal, Westwood Lake 2021 Monitoring		656.50
Crane Lake 2021 Monitoring Load 2021 monitoring data to Barr's EQuIS database and prepare summary of	2021	data.
Terri Olson, Engineer/Scientist/Specialist III 0.1 hours @ \$150.00 per hour	\$	15.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 1.8 hours @ \$145.00 per hour	\$	261.00
Technicians/Administrative	\$_	417.00
Subtotal, Crane Lake 2021 Monitoring	\$	693.00
Subtotal, 1060—Water Quality/Monitoring	\$	17,290.74
1070—Water Quantity Measure and review lake elevations as part of the lake-gauging program. James P. Herbert, Principal Engineer/Scientist		
0.3 hours @ \$200.00 per hour Technicians/Administrative		60.00 420.00
Expenses (mileage/vehicle)		
Subtotal, 1070—Water Quantity	\$	553.00
1080—Annual Flood Control Project Inspections Update flood control project inspection cost table per TAC meeting comments; a letters regarding results of the annual flood control project inspection to city and		
James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$200.00 per hour	\$	600.00
Josh P. Phillips, Engineer/Scientist/Specialist II 4.9 hours @ \$115.00 per hour	\$_	<u>563.50</u>
Subtotal, Annual Flood Control Project Inspections	\$	1,163.50
1100—Watershed Outlet Monitoring Program WOMP Rating Curve		
Download and review flow results file; and send flow results file and flow measure	ement	t notes to MCES.
Chris Bonick, Engineer/Scientist/Specialist III 1.0 hours @ \$135.00 per hour	\$ <u> </u>	135.00

Subtotal, 1100-	-Watershed	Outlet	Monitoring	ı Program	\$	135.00
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1120—TMDL Implementation Reporting

P8 Model Update

Follow-up on City data request; and develop inputs for P8 model updates.

Gregory Wilson, Engineer/Scientist/Specialist IV

3.3 hours @ \$175.00 per hour\$_	577.50
Subtotal, 1120—TMDL Implementation Reporting\$	577.50
SUBTOTAL, 1000—ENGINEERING & MONITORING\$	49,505.48

2000—PLANNING

2010—Next Generation Plan Development

Internal meeting to review next steps; communications with administrator regarding scope; and review/edit draft scope and costs for 2025 Plan update.

SURTOTAL 2000—PLANNING \$	1 855 50
Subtotal, 2010—Next Generation Plan Development\$	1,855.50
Greg Williams, Engineer/Scientist/Specialist III 8.3 hours @ \$150.00 per hour\$_	1,245.00
3.3 hours @ \$185.00 per hour\$	610.50
Karen L. Chandler, Principal Engineer/Scientist	

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)

Prepare for and attend December 7 virtual stakeholder coordination meeting; develop and finalize 50% design memo for December Commission meeting; prepare draft presentation for December Commission meeting and send to administrator for review, and revise/final presentation; attend and present at December virtual Commission meeting regarding the 50% design; edit dredging figures; review and discuss SHPO comments on the EAW; review City of Golden Valley's code requirements for vegetated/native buffers for streams and wetlands; and review, compile, and respond to comments from stakeholder review and meeting.

11.5 hours @ \$185.00 per hour\$	2,127.50
Patrick Brockamp, Engineer/Scientist/Specialist III	
22.8 hours @ \$125.00 per hour\$	2,850.00

Brendan Dougherty, Engineer/Scientist/Specialist II	
1.3 hours @ \$110.00 per hour\$	143.00
Tyler Conley, Engineer/Scientist/Specialist II	
2.8 hours @ \$100.00 per hour\$_	280.00
Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7)\$	5,400.50

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

Prepare and coordinate review of 30% plans; geotechnical analysis on pond slope stability; update XPSWMM and P8 stormwater models to reflect 30% design; analyze impact of proposed storm sewer modifications on system performance; internal and partner coordination on environmental response action plan; prepare for and attend bi-weekly virtual project coordination meetings with SRF, MPRB, City and administrator; prepare and send bi-weekly project updates to administrator; and communications with project partners and internal staff.

Daniel Fetter, Principal Engineer/Scientist 1.2 hours @ \$215.00 per hour\$	258.00
Robert Osburn, Principal Engineer/Scientist 0.4 hours @ \$200.00 per hour\$	80.00
Jedediah Greenwood, Principal Engineer/Scientist 0.2 hours @ \$195.00 per hour\$	39.00
Karen L. Chandler, Principal Engineer/Scientist 5.0 hours @ \$185.00 per hour\$	925.00
Stephanie Johnson, Consultant/Advisor 49.5 hours @ \$190.00 per hour\$	9,405.00
Benjamin Borree, Engineer/Scientist/Specialist IV 4.4 hours @ \$165.00 per hour\$	726.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 12.1 hours @ \$165.00 per hour\$	1,996.50
Fred Rozumalski, Engineer/Scientist/Specialist IV 3.0 hours @ \$165.00 per hour\$	495.00
Michelle Kimble, Engineer/Scientist/Specialist IV 12.6 hours @ \$155.00 per hour\$	1,953.00
Jen Koehler, Engineer/Scientist/Specialist IV 0.4 hours @ \$155.00 per hour\$	62.00
Greg Fransen, Engineer/Scientist/Specialist III 48.8 hours @ \$140.00 per hour\$	6,832.00
Dana Pasi, Engineer/Scientist/Specialist III 0.3 hours @ \$130.00 per hour\$	39.00
Patrick Heiman, Engineer/Scientist/Specialist II 3.1 hours @ \$120.00 per hour\$	372.00

Heather Lau, Engineer/Scientist/Specialist II 0.3 hours @ \$120.00 per hour\$	36.00
Josh P. Phillips, Engineer/Scientist/Specialist II 28.2 hours @ \$115.00 per hour\$	3,243.00
Lauren Brady, Engineer/Scientist/Specialist II 2.1 hours @ \$110.00 per hour\$	231.00
Kelly Wild, Engineer/Scientist/Specialist II 1.3 hours @ \$105.00 per hour\$	136.50
Jacob Daire, Engineer/Scientist/Specialist II 31.9 hours @ \$95.00 per hour\$	3,030.50
Technicians/Administrative\$_	390.00
Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)\$	30,249.50
SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS\$	35,650.00

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$10,723.00
1020	Development/Project Reviews	\$9,567.50
1030	Non-fee and Preliminary Reviews	\$7,078.74
1040	Commission and TAC Meetings	\$592.00
1050	Surveys and Studies	\$1,824.50
1060	Water Quality/Monitoring	\$17,290.74
1070	Water Quantity	\$553.00
1080	Annual Flood Control Project Inspections	\$1,163.50
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$135.00
1110	Annual XP-SWMM Model Updates/Reviews	\$0.00
1120	TMDL Implementation Reporting	\$577.50
1000	SUBTOTAL ENGINEERING & MONITORING	\$49,505.48
2000	PLANNING	
2010	Next Generation Plan Development	\$1,855.50
2000	SUBTOTAL PLANNING	\$1,855.50
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$0.00
4040	2021 Watershed Bicycle Tour	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$35,650.00
TOTAL PAYABLE		\$87,010.98

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.