



resourceful. naturally.  
engineering and environmental consultants

Mr. Jim de Lambert  
Bassett Creek Watershed Management Commission  
7800 Golden Valley Road  
Golden Valley, MN 55427

Page # 1  
Invoice # 23270051-2017-4  
Project # 23/27-0051  
Client # 59  
June 02, 2017

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
April 29, 2017 through May 26, 2017

**ENGINEERING**

TECHNICAL SERVICES

Communications with MPRB staff and administrator regarding Wirth Lake aquatic plant surveys and 2018 water quality monitoring budget; communications with administrator and internal staff regarding Flood Control Project tunnel inspections and 2018 budget; communications with administrator and internal staff regarding equipment purchase vs. rental options, purchase in 2017 rather than 2018, and sales tax and insurance responsibility for equipment purchase; call from Commissioner Elder regarding Agora project update; communications with administrator regarding BCWMC website platform; provide minor correction to Plymouth Creek Phase I study to administrator; and begin updates to requirements document and MIDS design sequence flowchart to reflect BCWMC changes to linear project water quality treatment requirements and newly-adopted floodplain elevations, including communications with administrator and internal meeting.

James P. Herbert, Principal Engineer/Scientist		
0.5 hours @ \$190.00 per hour .....	\$	95.00
Henry M. Runke, Principal Engineer/Scientist		
2.0 hours @ \$175.00 per hour .....	\$	350.00
John P. Hanson, Principal Engineer/Scientist		
0.2 hours @ \$165.00 per hour .....	\$	33.00
Karen L. Chandler, Principal Engineer/Scientist		
7.5 hours @ \$170.00 per hour .....	\$	1,275.00
Christopher J. Bonick, Engineer/Scientist/Specialist II		
1.0 hours @ \$120.00 per hour .....	\$	120.00
Josh P. Phillips, Engineer/Scientist/Specialist I		
1.4 hours @ \$75.00 per hour .....	\$	105.00
Technicians/Administrative.....	\$	10.00
<i>Subtotal, Technical Services.....</i>	<i>\$</i>	<i>1,988.00</i>

MONTHLY MEETING PREPARATION

Communications/coordination with administrator regarding draft/final agenda and meeting packet for May Commission meeting; review/edit draft April meeting minutes; prepare for May Commission meeting, including pre-meeting conference call with chair de Lambert and administrator to review meeting agenda; review and edit memo for May Commission meeting regarding XP SWMM model; revise Bassett Creek & Winnetka Pond presentation for May Commission meeting and email to administrator (note: revised presentation not in scope of feasibility study); and coordination and communications with administrator and internal staff regarding follow-up tasks from May Commission meeting and upcoming Commission meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 5.3 hours @ \$190.00 per hour .....	\$	1,007.00
Karen L. Chandler, Principal Engineer/Scientist 23.5 hours @ \$170.00 per hour .....	\$	3,995.00
Technicians/Administrative.....	\$	<u>142.50</u>
<i>Subtotal, Monthly Meeting Preparation.....</i>	\$	<i>5,144.50</i>

TAC PREPARATION

Prepare for May 4 TAC meeting; print materials for TAC meeting; communications with Crystal staff regarding adoption of XP-SWMM Phase 2 flood levels; review and revise draft TAC memo for May Commission meeting; communications with administrator regarding TAC comments on draft memo; and prepare table for May Commission meeting comparing the TAC's recommendations for triggers and treatment requirements for linear projects to those of other WDs/WMOs.

Karen L. Chandler, Principal Engineer/Scientist 7.0 hours @ \$170.00 per hour .....	\$	<u>1,190.00</u>
<i>Subtotal, TAC Preparation.....</i>	\$	<i>1,190.00</i>
<b>Subtotal Technical Services .....</b>	<b>\$</b>	<b>8,322.50</b>

PLAT REVIEW

Luther Support Center (2016-24)

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

James P. Herbert, Principal Engineer/Scientist 1.4 hours @ \$190.00 per hour .....	\$	266.00
Josh P. Phillips, Engineer/Scientist/Specialist I 3.2 hours @ \$75.00 per hour .....	\$	<u>240.00</u>
<i>Subtotal, Luther Support Center .....</i>	\$	<i>506.00</i>

Agora Development (2017-01)

Communications with developer's consultant regarding revised resubmittal; review XP-SWMM model; and review revised grading, drainage, erosion control and water quality plan.

Josh P. Phillips, Engineer/Scientist/Specialist I 7.9 hours @ \$75.00 per hour.....	\$	592.50
<i>Subtotal, Agora Development .....</i>		<i>\$ 592.50</i>

Ridgedale Ctr OPD Phase 3 (2017-06)

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

James P. Herbert, Principal Engineer/Scientist 1.3 hours @ \$190.00 per hour .....	\$	247.00
Josh P. Phillips, Engineer/Scientist/Specialist I 3.0 hours @ \$75.00 per hour.....	\$	225.00
<i>Subtotal, Ridgedale Ctr OPD Phase 3 .....</i>		<i>\$ 472.00</i>

BNSF Bridge 1.7 (LS 202) (2017-09)

Review submittal and prepare memo and location map for Commission meeting; review XP-SWMM model to confirm floodplain impacts; send comment letter to city staff following Commission meeting; communications with administrator, city staff, and applicant; review revised grading, drainage and erosion control plans; prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 5.3 hours @ \$190.00 per hour .....	\$	1,007.00
Ross S. Mullen, Engineer/Scientist/Specialist II 1.2 hours @ \$95.00 per hour .....	\$	114.00
Josh P. Phillips, Engineer/Scientist/Specialist I 5.5 hours @ \$75.00 per hour .....	\$	412.50
Edward M. Anderson, Engineer/Scientist/Specialist I 0.4 hours @ \$80.00 per hour .....	\$	32.00
<i>Subtotal, BNSF Bridge 1.7 (LS 202) .....</i>		<i>\$ 1,565.50</i>

Neill Elementary Deferred Maintenance (2017-10)

Review grading, drainage, erosion control and water quality plans; send comment letter to city staff; communications with applicant; review revised grading, drainage and erosion control plans; prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 4.2 hours @ \$190.00 per hour .....	\$	798.00
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Josh P. Phillips, Engineer/Scientist/Specialist I  
7.0 hours @ \$75.00 per hour..... \$ 525.00  
*Subtotal, Neill Elementary Deferred Maintenance..... \$ 1,323.00*

GV/MPLS Interceptor Rehab (2017-11)

Communications with administrator and applicant; review submittal and prepare memo and location map for Commission meeting; and send comment letter to city staff following Commission meeting.

James P. Herbert, Principal Engineer/Scientist  
3.0 hours @ \$190.00 per hour ..... \$ 570.00  
Josh P. Phillips, Engineer/Scientist/Specialist I  
5.4 hours @ \$75.00 per hour..... \$ 405.00  
Edward M. Anderson, Engineer/Scientist/Specialist I  
1.1 hours @ \$80.00 per hour ..... \$ 88.00  
Technicians/Administrative..... \$ 27.00  
Expenses (Postage) ..... \$ 0.46  
*Subtotal, GV/MPLS Interceptor Rehab..... \$ 1,090.46*

10<sup>th</sup> Avenue N Culvert Replacement (2017-12)

Review submittal and prepare memo and location map for Commission meeting; review XP-SWMM model to confirm floodplain impacts; send comment letter to city staff following Commission meeting; communications with administrator, city staff, and applicant; review revised grading, drainage and erosion control plans; prepare and send approval/comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist  
3.3 hours @ \$190.00 per hour..... \$ 627.00  
Karen L. Chandler, Principal Engineer/Scientist  
0.2 hours @ \$170.00 per hour..... \$ 34.00  
Jennifer A. Koehler, Engineer/Scientist/Specialist III  
2.2 hours @ \$130.00 per hour..... \$ 286.00  
Josh P. Phillips, Engineer/Scientist/Specialist I  
4.9 hours @ \$75.00 per hour..... \$ 367.50  
Edward M. Anderson, Engineer/Scientist/Specialist I  
0.9 hours @ \$80.00 per hour ..... \$ 72.00  
*Subtotal, 10<sup>th</sup> Avenue N Culvert Replacement..... \$ 1,386.50*

Dakota Supply Group Parking (2017-13)

Communications with applicant; review grading, drainage and erosion control plans; and prepare and send approval/comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist 2.6 hours @ \$190.00 per hour .....	\$ 494.00
Josh P. Phillips, Engineer/Scientist/Specialist I 2.7 hours @ \$75.00 per hour.....	\$ 202.50
Technicians/Administrative.....	\$ 45.00
Expenses (Postage/Color Plotter) .....	<u>\$ 12.46</u>
<i>Subtotal, Dakota Supply Group Parking.....</i>	<i>\$ 753.96</i>

Room & Board Load Dock Repaving (2017-14)

Communications with applicant; review grading, drainage and erosion control plans; prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 2.2 hours @ \$190.00 per hour .....	\$ 418.00
Josh P. Phillips, Engineer/Scientist/Specialist I 1.7 hours @ \$75.00 per hour.....	\$ 127.50
Technicians/Administrative.....	\$ 45.00
Expenses (Postage) .....	<u>\$ 0.46</u>
<i>Subtotal, Room &amp; Board Load Dock Repaving.....</i>	<i>\$ 590.96</i>

Banner Eng. Outlet A Addition (2017-15)

Communications with applicant; and preliminary review of grading, drainage and erosion control plans.

Josh P. Phillips, Engineer/Scientist/Specialist I 1.4 hours @ \$75.00 per hour.....	\$ 105.00
Technicians/Administrative.....	\$ 45.00
Expenses (Postage) .....	<u>\$ 0.46</u>
<i>Subtotal, Banner Eng. Outlet A Addition.....</i>	<i>\$ 150.46</i>

Pilgrim Ln Elementary Playfield (2017-16)

Communications with applicant; review grading, drainage and erosion control plans; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.2 hours @ \$190.00 per hour .....	\$ 228.00
Josh P. Phillips, Engineer/Scientist/Specialist I 1.8 hours @ \$75.00 per hour.....	\$ 135.00
Technicians/Administrative.....	\$ 45.00
Expenses (Postage) .....	<u>\$ 0.46</u>
<i>Subtotal, Pilgrim Ln Elementary Playfield.....</i>	<i>\$ 408.46</i>

Home2 Suites Hotel (2017-17)

Communications with applicant; and preliminary review of grading, drainage and erosion control plans.

James P. Herbert, Principal Engineer/Scientist 1.8 hours @ \$190.00 per hour .....	\$	342.00
Technicians/Administrative.....	\$	45.00
Expenses (Postage) .....	\$	<u>0.46</u>
<i>Subtotal, Home2 Suites Hotel.....</i>	\$	<i>387.46</i>

Armstrong HS Bldg Exterior (2017-18)

Communications with applicant; and preliminary project setup.

James P. Herbert, Principal Engineer/Scientist 0.3 hours @ \$190.00 per hour .....	\$	57.00
Technicians/Administrative.....	\$	54.00
Expenses (Postage) .....	\$	<u>0.46</u>
<i>Subtotal, Armstrong HS Bldg Exterior.....</i>	\$	<i>111.46</i>

CSAH 66 Culvert Replacement (2017-19)

Communications with applicant and administrator; and preliminary review of submittal and MPARS permit application.

James P. Herbert, Principal Engineer/Scientist 0.3 hours @ \$190.00 per hour.....	\$	57.00
Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$170.00 per hour.....	\$	51.00
Josh P. Phillips, Engineer/Scientist/Specialist I 0.3 hours @ \$75.00 per hour.....	\$	22.50
Technicians/Administrative.....	\$	<u>54.00</u>
<i>Subtotal, CSAH 66 Culvert Replacement.....</i>	\$	<i>184.50</i>

Ridgedale Regional Service Ctr (2017-20)

Communications with applicant; and plat review setup.

James P. Herbert, Principal Engineer/Scientist 0.3 hours @ \$190.00 per hour .....	\$	57.00
Technicians/Administrative.....	\$	<u>54.00</u>
<i>Subtotal, Ridgedale Regional Service Ctr .....</i>	\$	<i>111.00</i>

Creekside Woods I and II (2017-21)

Plat review set up; preliminary review of submittal; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 0.9 hours @ \$190.00 per hour .....	\$	171.00
Technicians/Administrative.....	\$	54.00
Expenses (Postage) .....	\$	<u>1.19</u>
<i>Subtotal, Creekside Woods I and II .....</i>	\$	226.19

Glory of Christ LC Addition (2017-22)

Plat review set up and preliminary review of submittal.

James P. Herbert, Principal Engineer/Scientist 0.3 hours @ \$190.00 per hour .....	\$	57.00
Technicians/Administrative.....	\$	54.00
Expenses (Postage) .....	\$	<u>0.46</u>
<i>Subtotal, Glory of Christ LC Addition .....</i>	\$	111.46

**Subtotal Plat Review.....\$ 9,971.87**

PRELIMINARY COMMUNICATIONS AND NON-FEE REVIEWS

Communications with consultants, City staff and administrator regarding proposed redevelopment of Minneapolis Impound Lot; attend meeting regarding redevelopment of Minneapolis Impound Lot and preparation; communications with Golden Valley staff regarding proposed development in the city.

James P. Herbert, Principal Engineer/Scientist 3.3 hours @ \$190.00 per hour .....	\$	627.00
Karen L. Chandler, Principal Engineer/Scientist 5.3 hours @ \$170.00 per hour .....	\$	<u>901.00</u>
<b>Subtotal, Plat Review – Preliminary Communications.....</b>	<b>\$</b>	<b>1,528.00</b>

NON-FEE REVIEWS

BLUE LINE LRT

Prepare for and attend meeting with Blue Line LRT consultant, administrator, Minneapolis staff and Golden Valley staff regarding Bassett Creek floodplain and conveyance issues and Commission application/review process.

James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$190.00 per hour .....	\$	665.00
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Karen L. Chandler, Principal Engineer/Scientist 3.1 hours @ \$170.00 per hour .....	\$ 527.00
Expenses (Mileage) .....	\$ 13.92
<i>Subtotal, Blue Line LRT.....</i>	<i>\$ 1,205.92</i>
<b>Subtotal Non-Fee Reviews .....</b>	<b>\$ 1,205.92</b>

**Subtotal Preliminary Communications and Non-Fee Reviews .....\$ 2,733.92**

COMMISSION AND TAC MEETINGS

Attend May 4 TAC meeting and May 18 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 6.8 hours @ \$170.00 per hour .....	\$ 1,156.00
<b>Subtotal, Commission and TAC Meetings.....</b>	<b>\$ 1,156.00</b>

SURVEYS & STUDIES

Sweeney Lake Sediment Testing

Prepare for and collect Sweeney Lake sediment samples.

Kevin D. Menken, Engineer/Scientist/Specialist II 3.5 hours @ \$110.00 per hour .....	\$ 385.00
Technicians/Administrative.....	\$ 66.00
Expenses (Sediment Corer/Snap Top Sediment Containers) .....	\$ 42.80
<i>Subtotal, Sweeney Lake Sediment Testing .....</i>	<i>\$ 493.80</i>

APM/AIS Committee

Prepare for and attend May 23 APM/AIS meeting.

Karen L. Chandler, Principal Engineer/Scientist 3.5 hours @ \$170.00 per hour .....	\$ 595.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 3.9 hours @ \$130.00 per hour .....	\$ 507.00
Expenses (Mileage) .....	\$ 14.98
<i>Subtotal, APM/AIS Committee .....</i>	<i>\$ 1,116.98</i>

**Subtotal Sweeney Lk Sediment Testing & APM/AIS Committee .....\$ 1,610.78**

**Subtotal Surveys & Studies.....\$ 1,610.78**



WATER QUALITY/MONITORING

Sweeney Lake Aeration Study

Prepare for and conduct mid-May (additional) Sweeney Lake water quality monitoring; prepare figure of monitoring locations; coordinate with lab regarding sample analysis; and communications with administrator and Alternate Commissioner McDonald Black regarding email updates.

Henry M. Runke, Principal Engineer/Scientist 0.5 hours @ \$175.00 per hour .....	\$ 87.50
Karen L. Chandler, Principal Engineer/Scientist 0.2 hours @ \$170.00 per hour .....	\$ 34.00
Gregory J. Wilson, Consultant/Advisor 1.5 hours @ \$155.00 per hour .....	\$ 232.50
Terri A. Olson, Engineer/Scientist/Specialist III 0.3 hours @ \$130.00 per hour .....	\$ 39.00
Joshua R. Vosejka, Engineer/Scientist/Specialist I 0.4 hours @ \$80.00 per hour .....	\$ 32.00
Technicians/Administrative.....	\$ 1,617.00
Expenses (Mileage/2WD Vehicle/Canoe/Turbidimeter/WQ Meter/GPS System/Jon Boat-Trailer/Motor/Bottle Sample) .....	\$ 272.60
<i>Subtotal, Sweeney Lake Aeration Study.....</i>	<i>\$ 2,314.60</i>

General Water Quality

General Water Quality Tasks

Provide articles to administrator regarding small scale herbicide treatment of AIS; communications with administrator regarding scheduled May Sweeney Lake sampling date and bacteria source monitoring/markers; communications with Sweeney Lake resident regarding algae; look into goose management measures, including communications with TRPD staff; and review Parkers Lake fish survey report.

Henry M. Runke, Principal Engineer/Scientist 0.5 hours @ \$175.00 per hour .....	\$ 87.50
Karen L. Chandler, Principal Engineer/Scientist 2.8 hours @ \$170.00 per hour .....	\$ 476.00
Gregory J. Wilson, Consultant/Advisor 3.6 hours @ \$155.00 per hour .....	\$ 558.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 1.0 hours @ \$130.00 per hour .....	\$ 130.00
<i>Subtotal, General Water Quality Tasks.....</i>	<i>\$ 1,251.50</i>

Water Quality Data Request

Provide Sweeney Lake and Twin Lake sample locations zip file and information regarding sediment sample methods to Wenck and respond to question from Wenck; retrieve files and review list of historical BCWMC water quality, zooplankton, phytoplankton and aquatic plant data; review aquatic plant maps; copy/scan water quality data; communications with administrator regarding schedule for providing requested data to consultant; compile list of available historical data; and email data summary to administrator.

Karen L. Chandler, Principal Engineer/Scientist 0.4 hours @ \$170.00 per hour.....	\$ 68.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 23.4 hours @ \$130.00 per hour .....	\$ 3,042.00
Kelly A. Wild, Engineer/Scientist/Specialist I 0.5 hours @ \$90.00 per hour .....	\$ 45.00
Technicians/Administrative.....	<u>\$ 695.00</u>
<i>Subtotal, Water Quality Data Request.....</i>	<i>\$ 3,850.00</i>
<i>Subtotal, General Water Quality and Data Request.....</i>	<i>\$ 5,101.50</i>

**Subtotal, Water Quality/Monitoring.....\$ 7,416.10**

WATER QUANTITY

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

Technicians/Administrative.....	\$ 360.00
Expenses (Mileage/2WD field vehicle) .....	<u>\$ 54.97</u>
<b>Subtotal, Water Quantity.....</b>	<b>\$ 414.97</b>

MUNICIPAL PLAN REVIEW

Crystal Code Review

Review Crystal city code for compliance with BCWMC requirements (per administrator direction); and prepare and send comment letter to city staff.

Karen L. Chandler, Principal Engineer/Scientist 1.2 hours @ \$170.00 per hour.....	\$ 204.00
Sterling G. Williams, Engineer/Scientist/Specialist III 7.5 hours @ \$130.00 per hour.....	<u>\$ 975.00</u>
<b>Subtotal, Crystal Code Review.....</b>	<b>\$ 1,179.00</b>

**TOTAL ENGINEERING .....\$ 32,805.14**

**SECRETARIAL SERVICES**

**TOTAL SECRETARIAL SERVICES EXPENSES.....\$ 0.00**

**ANNUAL REPORT**

ANNUAL REPORT

Complete assigned portions of 2016 annual report and provide to administrator.

James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$190.00 per hour .....	\$ 665.00
Karen L. Chandler, Principal Engineer/Scientist 1.2 hours @ \$170.00 per hour .....	\$ 204.00
Gregory J. Wilson, Consultant/Advisor 0.5 hours @ \$155.00 per hour .....	\$ 77.50
Karen S. Wold, Engineer/Scientist/Specialist II 1.6 hours @ \$120.00 per hour .....	\$ <u>192.00</u>
<i>Subtotal, Annual Report.....</i>	<i>\$ 1,138.50</i>
<b>TOTAL ANNUAL REPORT .....</b>	<b>\$ 1,138.50</b>

**PUBLIC COMMUNICATIONS**

**TOTAL PUBLIC COMMUNICATIONS .....\$ 0.00**

**WEBSITE**

**TOTAL WEBSITE.....\$ 0.00**

**WATERSHED OUTLET MONITORING PROGRAM (WOMP)**

**TOTAL WOMP .....\$ 0.00**

**CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)**

FOUR SEASONS MALL AREA WATER QUALITY PROJECT (NL-2)

Review wetland restoration information and communications with developer's consultant; internal communications regarding guidelines for wetland treatment; compile literature/guidance for shallow wetland design/treatment effectiveness; review development plan/CIP project and compare with shallow wetland treatment design guidance; communications with developer's consultant regarding wetland restoration plan and CIP review status/schedule; internal coordination regarding wetland

restoration plan; communications with Plymouth staff regarding status of wetland permitting; review wetland application; communications with developer's consultant to schedule meeting and provide list of preliminary review questions; follow up on preliminary review questions; prepare for and attend May 19 meeting with developer's consultants regarding wetland restoration project; and review of XPSWMM model.

James P. Herbert, Principal Engineer/Scientist 1.4 hours @ \$190.00 per hour .....	\$ 266.00
Karen L. Chandler, Principal Engineer/Scientist 12.4 hours @ \$170.00 per hour .....	\$ 2,108.00
Gregory J. Wilson, Consultant/Advisor 16.9 hours @ \$155.00 per hour .....	\$ 2,619.50
Ross S. Mullen, Engineer/Scientist/Specialist II 6.5 hours @ \$95.00 per hour .....	\$ 617.50
Josh P. Phillips, Engineer/Scientist/Specialist I 4.3 hours @ \$75.00 per hour .....	\$ 322.50
<i>Subtotal, Four Seasons Mall Area Water Quality Project (NL-2).....</i>	<i>\$ 5,933.50</i>

BASSETT CREEK PARK & WINNETKA PONDS DREDGING FEASIBILITY STUDY

Communications with administrator and Crystal staff; perform preliminary Minnesota Routine Assessment Method (MNRAM) review to evaluate wetland functions at Winnetka Pond; calculate 50-ft. buffer area for Winnetka Pond; revise opinion of cost to reflect updated unit costs for dredging and sediment disposal; update figures and tables and revise feasibility study; prepare PDF and provide feasibility study to administrator for review and distribution for May Commission meeting packet; complete final revisions to document following Commission meeting and provide final document to administrator for posting on website.

Karen L. Chandler, Principal Engineer/Scientist 21.4 hours @ \$170.00 per hour .....	\$ 3,638.00
Gregory J. Wilson, Consultant/Advisor 3.6 hours @ \$155.00 per hour .....	\$ 558.00
Brian K. Burgner, Engineer/Scientist/Specialist II 0.4 hours @ \$95.00 per hour .....	\$ 38.00
Charles M. Hinds, Engineer/Scientist/Specialist I 2.7 hours @ \$80.00 per hour .....	\$ 216.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 1.0 hours @ \$80.00 per hour .....	\$ 80.00
Edward M. Anderson, Engineer/Scientist/Specialist I 1.8 hours @ \$80.00 per hour .....	\$ 144.00

Technicians/Administrative.....	\$	505.00
<i>Subtotal, Bassett Creek Park &amp; Winnetka Ponds Dredging Feasibility Study.....</i>		
	\$	5,179.00

WINNETKA POND EAST DREDGING PROJECT (2018) (BCP 2)

Prepare for and attend May 24 meeting with Winnetka Village managers, administrator, and Crystal staff; and communications with Crystal staff and administrator.

Karen L. Chandler, Principal Engineer/Scientist 2.2 hours @ \$170.00 per hour .....	\$	374.00
Expenses (Mileage) .....	\$	2.68
<i>Subtotal, Winnetka Pond East.....</i>		
	\$	376.68

SCHAPER POND EFFECTIVENESS MONITORING (SL-3)

Internal discussions regarding equipment rental/purchase; coordination with vendors on equipment options/system design; obtain quotes and place equipment orders; and visit site and prepare shelter for equipment and start up.

Gregory J. Wilson, Consultant/Advisor 3.0 hours @ \$155.00 per hour .....	\$	465.00
Christopher J. Bonick, Engineer/Scientist/Specialist II 4.8 hours @ \$120.00 per hour .....	\$	576.00
Technicians/Administrative.....	\$	171.00
<i>Subtotal, Schaper Pond Effectiveness Monitoring .....</i>		
	\$	1,212.00

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 12,701.18**

<b>TMDL WORK</b>
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**TOTAL TMDL WORK.....\$ 0.00**

<b>XP-SWMM PHASE II</b>
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XP-SWMM PHASE II


Compile submittal for distribution to TAC and attend May 4 TAC meeting; finalize XP-SWMM report text, tables, inundation maps and figures; review Old Bassett Creek Tunnel inlet dimensions based on new information from city staff; internal meeting and coordination regarding modeling at Old Bassett Creek Tunnel inlet and impact of changed box culverts; run XP-SWMM model with actual box culvert dimensions at Old Bassett Creek Tunnel inlet; run 2- and 10-year XP-SWMM models for Viewer files; revise initial depth/overflow issue in Medicine Lake South watershed; and follow-up regarding future changes to model and future model updates based on permit reviews.

James P. Herbert, Principal Engineer/Scientist 0.7 hours @ \$190.00 per hour .....	\$ 133.00
Karen L. Chandler, Principal Engineer/Scientist 1.0 hours @ \$170.00 per hour .....	\$ 170.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III 10.3 hours @ \$130.00 per hour .....	\$ 1,339.00
Ross S. Mullen, Engineer/Scientist/Specialist I 5.4 hours @ \$95.00 per hour.....	\$ 513.00
Lulu Fang, Engineer/Scientist/Specialist I 2.8 hours @ \$80.00 per hour.....	\$ 224.00
Expenses (Color Plotter) .....	<u>\$ 12.00</u>
<i>Subtotal, XP-SWMM Phase II</i> .....	<i>\$ 2,391.00</i>
<b>TOTAL XP-SWMM PHASE II</b> .....	<b>\$ 2,391.00</b>

<b>SUMMARY TOTALS</b>
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<b>Total Engineering</b> .....	<b>\$ 32,805.14</b>
<b>Total Secretarial Services Expenses</b> .....	<b>\$ 0.00</b>
<b>Total Annual Report/Website/Public Communications</b> .....	<b>\$ 1,138.50</b>
<b>Total WOMP</b> .....	<b>\$ 0.00</b>
<b>Total Capital Improvement Projects (Tax Levy)</b> .....	<b>\$ 12,701.18</b>
<b>Total TMDL Work</b> .....	<b>\$ 0.00</b>
<b>Total XP-SWMM Phase II</b> .....	<b><u>\$ 2,391.00</u></b>
<b>TOTAL PAYABLE</b> .....	<b>\$ 49,035.82</b>

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

  
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