Elm Creek Watershed Management Commission 2016 Treasurer's Report

		2016 Budget	Dec 2016	Jan 2017	2016 Budget YTD
EXPENSES					
Administrative		90,000	7,638.16	8,201.65	84,997.87
Watershed-wide TMDL		24,406	246.53	126.20	1,432.35
Grant Writing		5,100			0.00
Website		6,000	146.85	91.85	3,794.24
Legal		2,000		290.00	1,040.50
Audit		5,000			4,500.00
Insurance		3,800	-2,014.00		1,442.00
Miscellaneous/Contingency		2,000			0.00
Project Reviews	HCEE	105,500			59,622.54
Project Reviews	Consult	6,000		3,157.50	9,780.00
Project Reviews	Admin	11,000	996.80	470.19	12,310.17
WCA-Technical	HCEE	12,500			8,635.12
WCA	Legal	500			0.00
WCA	Admin	2,000	200.72		1,126.54
Stream Monitoring		23,500			20,874.32
Extensive Stream Monitoring		7,200	6,120.00		6,120.00
DO Longitudinal Survey		500			0.00
TMDL Monitoring/Comm in-kind					13,600.00
Rain Gauge		195	18.97	16.35	210.40
Rain Gauge Network		100			0.00
Lakes Monitoring - CAMP		1,650		480.00	480.00
Lakes Monitoring - TRPD					0.00
Sentinel Lakes		3,100	3,100.00		3,100.00
Additional Lake		600			0.00
Aquatic Vegetation Surveys		1,000			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Stream Health (SHEP)		6,000			0.00
Education		6,000	147.35	93.45	3,260.98
WMWA General Activities		4,000			3,750.00
WMWA Educators/Watershed Prep		4,500			4,500.00
WMWA Special Projects		1,500			1,500.00
Rain Garden Workshops		3,000			2,113.50
Education Grants		3,000			0.00
Macroinvertebrate Monitoring-River Watch		6,000			0.00
Ag Specialist		2,000			0.00
Projects ineligible for ad valorem		50,000			0.00
Studies/Project ID/SWA		35,000	195.00	409.63	6,484.20
S Metro/Upper Miss Bacteria TMDLs		1,000			0.00
Plan Amendments/Local Plans		8,000			1,698.91
Transfer to (from) Encumbered Funds (see following pages)					*0.00*
Transfer to (from) Capital Projects (see following pages)			*123,163.52*		*246,088.95*
Transfer to (from) Cash Sureties (see following pages)					*0.00*
To Fund Balance					0.00
TOTAL - Month			**139,959.90**	**13,336.82**	**502,462.59**
TOTAL Paid in 2016, incl 2015 Expenses		**447,651.00**	**545,371.49**	**558,708.31**	**2016 Paid**
				2016 Expense	

Elm Creek Watershed Management Commission 2016 Treasurer's Report

		2016 Budget	Dec 2016	Jan 2017	2016 Budget YTD
INCOME					
From Fund Balance					
Project Review Fee		100,000	6,070.25		63,692.10
Return Project Fee					-1,500.00
Water Monitoring - TRPD Co-op Agmt		6,000	5,132.97		5,132.97
WCA Fees		5,000			53,850.00
Return WCA Fee/Surety					-1,000.00
Reimbursement for WCA Expense		1,500			840.00
Member Dues		215,360			215,360.00
Interest/Dividends Earned		80	137.79		914.70
Transfer to (from) Capital Projects (see page 4)			*120,649.52*		248,199.58
Watershed-wide TMDL - MPCA - 2015					0.00
Misc Income					0.00
Total - Month			**131,990.53**	**0.00**	**585,489.35**
TOTAL Funds Rec'd in 2016, incl 2015 Incom		**327,940.00**	**597,497.60**	**597,497.60**	**2016 Received**
CASH SUMMARY		**Balance Fwd**			
Checking					
4M Fund		517,804.14	570,930.25	557,593.43	
Cash on Hand			**570,930.25**	**557,593.43**	
CASH SURETIES HELD		**Balance Fwd**			**Activity CY**
WCA Escrows Received		0.00			46,000.00
WCA Escrow Reduced		0.00			0.00
Total Cash Sureties Held		**0.00**	**1,000.00**	**1,000.00**	
CAPITAL PROJECTS					
Revenue - AdValorem Levy Funds		250,000			
Medina Tower Drive		-			0.00
Champlin Mill Pond Dam		-			0.00
Plymouth EC Restoration					127,449.66
Expense - Commission Cost Share		250,000			
Administrative Expense		3,000			
Medina Tower Drive		-			0.00
Champlin Mill Pond Dam		-			0.00
Plymouth EC Restoration					
ENCUMBERED FUNDS					
Encumber Studies/Project Identification/		34,316			
SWA balance from 2015					
Total Expenditures			**0.00**	**0.00**	**0.00**
Total Encumbered Funds		**34,316**	**34,315.54**	**34,315.54**	

Elm Creek Watershed Management Commission 2016 Treasurer's Report

Claims Presented		General Ledger Account No	December	January	TOTAL
Campbell Knutson - Legal		521000			**290.00**
Legal - Project Review (Admin)		578100		290.00	
Connexus - Rain Gauge		551100		16.35	**16.35**
Barr Engineering - Proj Rev Consultant		578050		3,157.50	**3,157.50**
Metropolitan Council - CAMP		561000		480.00	**480.00**
JASS					**9,392.97**
Administration		511000		8,201.65	
Annual Report		511000			
Website		581000		91.85	
Project Reviews		578100		470.19	
WCA		579000			
Plan Amendment		541500			
Education		590000		93.45	
Elm Creek TMDL		580800		126.20	
CIPs General		563001		409.63	
CIPs Medina Tower Drive		563002			
CIPs Champlin Mill Pond Dam		563003			
CIPs Plymouth EC Restoration		563004			
Grant Opportunities		511000			
TOTAL CLAIMS					**13,336.82**

Elm Creek Watershed Management Commission
2016 Treasurer's Report
Capital Improvement Project Tracking

CIPs	Amount	%age	TOTAL 2014	TOTAL 2015	JAN 2016	'FEB 2016	'MAR 2016	'APR 2016	'MAY 2016	'JUN 2016	'JUL 2016	'AUG 2016	'SEP 2016	'OCT 2016	'NOV 2016	'DEC 2016	JAN 2017	2016 GJE	TOTAL 2016	TOTAL ALL YEARS
Ad Valorem 2014 - Medina Tower Drive	68,750	52.380																		
Revenue			-	68,916.44												(46.08)			(46.08)	68,916.44
Expense			1,989.80	-															-	1,989.80
Balance			(1,989.80)	68,916.44												46.08			46.08	66,972.72
Ad Valorem 2014 - Champlin Mill Pond Dam	62,500	47.620																		
Revenue			-	62,653.69												(41.89)			(41.89)	62,653.69
Expense			1,631.81	-															-	1,631.81
Balance			(1,631.81)	62,653.69												41.89			41.89	61,063.77
Ad Valorem 2015 - Plymouth Elm Creek Restoratio	250,000.00	100.000																		
Revenue				-							127,449.66				100.40	120,737.49			248,287.55	248,287.55
Expense				2,606.17										280.99					280.99	2,887.16
First Half Payment														122,112.84					122,112.84	122,112.84
Second Half Partial Payment																123,163.52			123,163.52	123,163.52
Balance				(2,606.17)							127,449.66			(122,393.83)	100.40	(2,426.03)	-		2,730.20	124.03
Ad Valorem 2016 - Fox Creek Phase 2 Bank Stabil																				
Revenue				-															-	-
Expense				-									106.32						106.32	106.32
Balance				-							-	-	(106.32)						(106.32)	(106.32)
Ad Valorem 2016 - Miss Rvr Shore Repair/Stabiliza																				
Revenue				-															-	-
Expense				-									106.32						106.32	106.32
Balance				-							-	-	(106.32)						(106.32)	(106.32)
Ad Valorem 2016 - EC Dam at Mill Pond																				
Revenue				-															-	-
Expense				-									106.32						106.32	106.32
Balance				-							-	-	(106.32)						(106.32)	(106.32)
Ad Valorem 2016 - Rush Creek Main Stem Restora																				
Revenue				-															-	-
Expense				-									106.32						106.32	106.32
Balance				-							-	-	(106.32)						(106.32)	(106.32)
Ad Valorem 2016 - Fish Lake Alum Trmt Phase 1																				
Revenue				-															-	-
Expense				-									106.32						106.32	106.32
Balance				-							-	-	(106.32)	-	-	-		-	(106.32)	(106.32)
TOTAL CIP	**131,250.00**																			
Revenue			**-**	**131,570.13**	**-**	**-**	**-**	**-**	**-**	**-**	**127,449.66**	**-**	**-**	**-**	**100.40**	**120,649.52**	**-**	**-**	**248,199.58**	**379,769.71**
Expense			**3,621.61**	**2,606.17**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**531.60**	**280.99**	**-**	**-**	**-**	**-**	**812.59**	**7,040.37**
Payments														**(122,112.84)**		**(123,163.52)**			**(245,276.36)**	**(245,276.36)**
Balance			**(3,621.61)**	**128,963.96**	**-**	**-**	**-**	**-**	**-**	**-**	**127,449.66**	**-**	**(531.60)**	**(122,393.83)**	**100.40**	**(2,338.06)**	**-**	**-**	**2,286.57**	**127,628.92**

CONNEXUS® ENERGY
Your Community Energy Partner

Account Number:
481113-238425
ELM CREEK WATERSHED MGMT ORG

Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Total Amount Due	Due Date
$16.35	January 13, 2017

Billing Summary

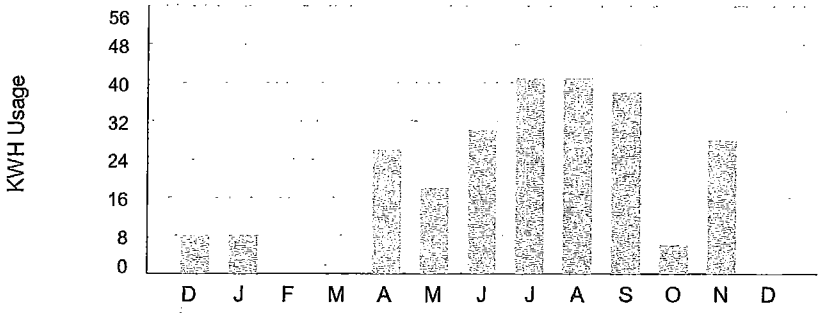
Billing Date: Dec 16, 2016

Previous Balance	$18.97
Payments - Thank You!	$18.97
Balance Forward	**$0.00**
New Charges	**$16.35**
Total Amount Due	**$16.35**

Payment must be received on or before January 13, 2017

Energy Comparison

Previous Months' Usage Current Month's Usage



How to contact us

Member Services / Moving - 763-323-2650
Outages and Emergencies - 763-323-2660
Hearing/Speech Impaired Call - 711 or 800-627-3529
Email: info@connexusenergy.com
www.connexusenergy.com
Gopher State One Call - 811
14601 Ramsey Boulevard, Ramsey, MN 55303

Message Center

Upcoming Director Elections
Connexus Energy is now accepting applications for Board of Director candidates in director districts 1, 2, and 3. The deadline for applications is 5:00 p.m. on January 26, 2017. An informational meeting for members interested in becoming director candidates is scheduled for 4:00 p.m. on January 18 at Connexus Energy. If you plan to attend the informational meeting, please RSVP at 763.323.2721.

Holiday office hours
Our office will be closed on December 23 & 26, and January 2, 2017. In the event of a power outage, please call 763.323.2660. Our System Operations Center is staffed around the clock, 365 days a year.

From all of us at Connexus Energy, we wish you a safe, happy, and bright holiday season. We look forward to serving you in 2017.

▼ *Please detach at perforation and return this portion with a check or money order made payable to Connexus Energy* ▼

TRA3-D-000240/000426 AGU84U S1-ET-M1-C00001

CONNEXUS® ENERGY
Your Community Energy Partner

Account Number:	**481113-238425**
Total Amount Due	**$16.35**
Payment Due By	January 13, 2017

000240 1 MB 0.416 000240/000240/000426 002 01 AGU84U
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325

Connexus Energy
PO Box 1808
Minneapolis, MN 55480-1808

00001635 0004811130238425 000000 00000 00000000000 0000001

CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

Elm Creek Watershed Management Commission
c/o Judie A. Anderson, Exec. Secty.
3235 Fernbrook Lane
Plymouth MN 55447

December 31, 2016
Account # 1448-000G
197

RE: GENERAL MATTERS
SERVICES RENDERED TO DATE:

			HOURS	
12/01/2016	JJJ	Emails Judie re: local official controls.	0.50	72.50
12/29/2016	JJJ	Emails Judie, draft template MOU for buffer zones.	1.00	145.00
12/30/2016	JJJ	Follow-ups Judie re: draft template MOU for buffer zones.	0.50	72.50
		AMOUNT DUE	2.00	290.00
		TOTAL CURRENT WORK		290.00
		PREVIOUS BALANCE		$72.50
11/17/2016		Payment - thank you		-72.50
		TOTAL AMOUNT DUE		$290.00

General Legal

Amounts due over 30 days will be subject to a finance charge of
.5% per month (or an annual rate of 6%). Minimum charge - 50 cents.

CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

December 31, 2016
Account # 1448G

Elm Creek Watershed Management Commission
c/o Judie A. Anderson, Exec. Secty.
3235 Fernbrook Lane
Plymouth MN 55447

SUMMARY STATEMENT

PREVIOUS BALANCE	FEES	EXPENSES	CREDITS	PAYMENTS	BALANCE
1448-000 RE: GENERAL MATTERS					
	SERVICES RENDERED TO DATE:				
72.50	290.00	0.00	0.00	-72.50	$290.00

Amounts due over 30 days will be subject to a finance charge of .5% per month (or an annual rate of 6%). Minimum charge - 50 cents.

INVOICE

Barr Engineering Co.
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Phone: 952-832-2600; Fax: 952-832-2601
FEIN #: 41-0905995 Inc: 1966

Ms. Judie Anderson
Elm Creek Watershed Management
JASS-Watershed Administrators
3235 Fernbrook Lane
Plymouth, MN 55447

December 30, 2016
Invoice No: 23270F55.03 - 78

Total this Invoice $3,157.50

Regarding: Development Reviews

This invoice is for professional services related to Elm Creek Watershed Management Commission project reviews, which included the following tasks:

Task 163 – Kinghorn 4th Addition (2016-040)

- Project review and write-up
- Communications with City of Rogers, developer's engineer, and Hennepin County.
- Presentation at the November ECWMC meeting

Professional Services from October 01, 2016 to November 25, 2016

Job:	JOB3	Project Review
Task:	163	Kinghorn 4th Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Weiss, Jeffrey	21.90	125.00	2,737.50	
Engineer / Scientist / SpecialistI				
Fang, Lulu	5.60	75.00	420.00	
	27.50		3,157.50	
Subtotal Labor				**3,157.50**
		Task Subtotal		**$3,157.50**
		Job Subtotal		**$3,157.50**
		Total this Invoice		**$3,157.50**

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact your Barr Project Manager, Jeff Weiss Phone: 952-832-2706 or E-Mail: jweiss@barr.com.

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.
Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

METROPOLITAN COUNCIL

INVOICE

Invoice No: 0001062019
Invoice Date: 12/15/16
Page: 1 of 1

Please Remit To:
Metropolitan Council
Environmental Services
PO Box 856513
Minneapolis MN 55485-6513
United States

Customer Number: 7174
Payment Terms: Due 30 dys
Due Date: 1/14/17

Bill To:
ELM CREEK WATERSHED MGMT ORGANIZATION
JUDIE ANDERSON
c/o Jass Inc
3235 Fernbrook Ln
Plymouth MN 55447
United States

AMOUNT DUE: **$ 480.00 USD**

Amount Remitted

For account questions: metcar@metc.state.mn.us

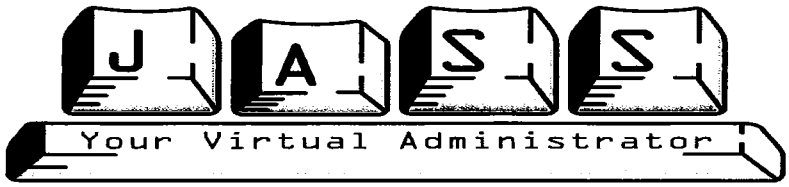
Line	Identifier	Description	Quantity	UOM	Unit Amt	Original Net Amount
1	CAMP	Citizen-Assist-Monitor-Prj	1.00	EA	480.00	480.00

Subtotal: 480.00

Contract: 16R013

Quantity of lake sites: 1 at $280. 1 at $200.
2016 Citizen-Assisted Monitoring Program
-
For questions about this bill, please contact Brian Johnson at 651-602-8743 or Brian.Johnson@metc.state.mn.us.
- - - -
ANY UNPAID BALANCE OVER 30 DAYS FROM DATE OF INVOICE WILL BE SUBJECT TO A FINANCE CHARGE AT THE RATE OF 1.5% PER MONTH (18% PER YEAR)
- - - -
PAYMENTS ACCEPTED VIA CHECK, CREDIT CARD, OR ACH/EFT
> CHECK: use the remit address at the top of this invoice
> CARD: visit http://metcar.metc.state.mn.us/
> EFT/ACH: provide your EFT/Direct Deposit enrollment form to metcar@metc.state.mn.us

Amount Due: **$ 480.00**



3235 Fernbrook Lane
Plymouth MN 55447

Elm Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

10-Jan-17

				Total by Project Area
Administrative		50.00	0.00	
Administrative	13.00	55.00	715.00	
Administrative	78.29	60.00	4,697.40	
Administrative - TAC Prep	13.31	60.00	798.60	
Admin - Offsite	2.73	65.00	177.45	
Office Support	5.00	200.00	1,000.00	
Storage Unit	1.00	192.23	192.23	
Data Processing/File Mgmt	2.46	55.00	135.30	
Admin - Reimbursable Expense	485.67	1.00	485.67	8,201.650
Website	1.67	55.00	91.85	
Website		60.00	0.00	
Website - Reimbursable Expense		1.00	0.00	
Web Domain, hosting		1.00	0.00	91.850
Project Reviews - Secre	0.17	55.00	9.35	
Project Reviews - Admin	3.66	60.00	219.60	
Project Reviews - Admin - File Mgmt		55.00	0.00	
Project Reviews - Reimbursable Expense	241.24	1.00	241.24	470.190
WCA - Secre		55.00	0.00	
WCA - Admin		60.00	0.00	
WCA - Reimbursable Expense		1.00	0.00	0.000
Education - Secretarial		55.00	0.00	
Education - Admin	1.00	60.00	60.00	
Education - Admin Offsite	0.38	65.00	24.70	
Education - Reimbursable Expense	8.75	1.00	8.75	93.450
TMDL - Secretarial		55.00	0.00	
TMDL - Admin	1.02	60.00	61.20	
TMDL - Offsite Admin		65.00	0.00	
TMDL - Reimbursable Expense	65.00	1.00	65.00	126.200
CIPs - ~~Plymouth Stream Restora Secretarial~~ General		45.00	0.00	
CIPs - Administrative	6.71	60.00	402.60	
CIPs- Offsite Admin		65.00	0.00	
CIPs - reimbursables	7.03	1.00	7.03	409.630
		Invoice Total		9,392.970

Technical Memo

WENCK ASSOCIATES

Responsive partner.
Exceptional outcomes.

To: Brad Martens, City Administrator
City of Corcoran

From: Diane Spector
Jeff Strom

Date: July 19, 2016

Subject: Potential CWF Grant Application
Rush Creek Headwaters Subwatershed Assessment

The Elm Creek Watershed Management Commission proposes to submit a grant application to the Clean Water Fund (CWF) Accelerated Implementation Program to complete a subwatershed assessment in four key subwatersheds in the headwaters of Rush Creek and North Fork Rush Creek. Much of the land in those subwatersheds is in the City of Corcoran (see attached Figure 1). The City of Corcoran has requested the opportunity to consider such an application and approve its submittal.

What is a subwatershed assessment? A subwatershed assessment is a detailed evaluation of stormwater runoff and pollutant loading conditions within an area of interest. In the Elm Creek TMDL, which is currently on public notice, wide-scale hydrologic modeling was done to estimate the rate and volume of stormwater runoff and the amount of pollutants such as sediment and phosphorus that was conveyed from the land into the lakes and streams in the watershed. On Figure 1 showing the Elm Creek watershed and the results of modeling performed for the TMDL, you will see polygons of different colors representing in general how much stormwater and pollutants are being generated from each of the subwatersheds. In real life, uniform conditions don't exist across a subwatershed. For example, one field might have soils and slope such that more soil may wash away in a storm than another field that is flatter and has different types of soils. To more specifically pinpoint where pollutant loading may be coming from, a subwatershed assessment uses a much finer-scale model that can get down to the field level. Specific software tools and field assessments are the primary analyses used in a subwatershed assessment as these help identify the best practices to implement and where they will have the most impact. The final result of a subwatershed assessment is a series of detailed maps showing the recommended practices, and a set of actions, costs, and load removals.

Why do a subwatershed assessment? The Elm Creek WMO Third Generation Watershed Management Plan identified TMDL/WRAPS implementation as a high priority goal. Completing subwatershed assessments in priority areas to identify load and volume reduction BMPs was one of the identified actions, and the proposed Rush Creek Headwaters Subwatershed Assessment is the first of what will be a series of assessments. MS4s such as Corcoran are required as part of their NPDES permits to come up with a plan of action to achieve the load reductions assigned in the Elm Creek Watershed TMDL, and to include that in your Local Stormwater Plan and your NPDES permit SWPPP. For both branches of Rush Creek Corcoran was assigned Total Phosphorus (TP) reductions of up to 85%, and *E. coli* (bacteria)

reductions of up to 96%. This subwatershed assessment will help you locate and identify the best practices to accomplish these reductions.

What are the benefits to the City? As stated above the biggest benefit is that it will help you meet your Local Water Management Plan and NPDES permit responsibilities. More specifically:

- The final report will include figures showing the types of improvements that would be beneficial in reducing pollutant loading (see Figures 2 and 3 for example).
- The final report will include a prioritized list of potential projects and practices and their cost/benefit. The subwatershed assessment process and tools that would be used are those recommended by BWSR, and grant applications for projects identified and prioritized using these methods are looked upon more favorably by grant reviewers.
- MS4s such as Corcoran will have some responsibility under the Buffer Law to ensure buffers or practices having a similar effect are present on all public waters in their jurisdictions. One of the tools that will be used in the subwatershed assessment, the Agricultural Conservation Planning Framework (ACPF), specifically analyzes stream channels and adjacent land, and recommends the best type of protection practice (see Figure 2 for an example). This tool will evaluate critical areas that should be a high priority. It can also recommend buffer widths. The tool may, for example, help you determine that in a particular location a 25 foot wide buffer would be as protective as the required 50 foot buffer.
- One of the tasks of the subwatershed assessment is to clean up and improve the accuracy of data about feedlot locations and number of animal units and number and location of septic systems.
- In addition to the modeling tools, the assessment will also include a review of other potential projects and practices, such as correcting areas of stream erosion, identifying where discharge from riparian wetlands may be reducing the amount of oxygen in the streams, and addressing other known problems.

How will data be obtained? A large share of the work is desktop, using Geographic Information Systems (GIS) modeling tools. We start with a Digital Elevation Model (DEM) generated from LIDAR (Light Detection and Ranging), which provides a very accurate representation of the terrain. The DEM can predict how water will flow across the surface of the land. The first step is called hydroconditioning the DEM. When a flow path in the DEM encounters a high spot, it doesn't know if it is a high spot such as a berm which would stop water from flowing, or a road crossing with a culvert which would allow the water to continue flowing on. We have to go in and manually correct the flow path in those areas. The second step is to apply the modeling tools, which are applications that use the DEM and other information such as land use and soil types to identify locations for practices such as tile drain water level control structures; channel buffer types and widths; contour buffer strips; water and sediment control basins (WASCOBS); or infiltration practices. Two of the tools that would be used in this assessment are PTMApp (Prioritize, Target, and Measure) and ACPF. These are well-known and accepted tools developed in Minnesota and Iowa specifically for this purpose. The third tool would be aerial photo interpretation, and the fourth tool would be some on-the-ground field verification and investigation. The County would assist in collecting and verifying septic system and feedlot data that could be incorporated into the assessment.

What is the plan for public outreach? For purposes of putting together a grant application and cost estimate, we have assumed that there will be a Technical Advisory Committee (TAC) with representatives from the Commission, the cities, Hennepin County, and other parties working with agricultural property owners such as University of Minnesota Extension. The Commission would ask the

City to suggest the names of some key property owners who could participate as well. That TAC would meet 3-4 times during the course of the project. Also included in the grant application would be one general community meeting and four small focus group meetings held in different parts of the subwatersheds. If the grant is received the Commission would work together with all parties to refine the public input process based on the collective wisdom of the group.

What is the timeline? Clean Water Fund grants are typically awarded annually in December. It takes about three months for the Board of Water and Soil Resources (BWSR) to complete the work plan development and review and contracting process. The earliest work could start would likely be April 2017, with the final report in mid-2018. Work would be complete enough so that the Commission and City would be in a position to apply for Clean Water Fund Implementation grants in summer 2018.

What will it cost? For planning purposes we have put together a rough estimate of the cost of the project, including the modeling, BMP identification, reporting, field work, and meetings (Table 1). This estimate of about $60,000 includes an allowance for Commission staff time. We are still working with Commission staff to refine that estimate. The CWF grant requires a 25% local match, or $15,000. The Commission has budgeted funds in 2016 and 2017 for studies, subwatershed assessments, and project identification and will contribute the bulk of the estimated match. The Commission has requested that Corcoran contribute $500 towards the cost of the subwatershed assessment.

Table 1. Estimated cost to complete modeling and BMP assessments on four subwatersheds in the Rush Creek headwaters.

Task	Hours	Estimated Cost
DEM model hydroconditioning	80	$9,200
Run PTMApp, ACPF, other assessments	100	11,500
Develop BMPs and prepare report	140	20,020
Field investigation & verification	16	4,640
Staff and TAC/Commission meetings	64	7,800
Public meetings and other outreach	51	5,805
Total	479	$59,045

What needs to be done to submit the grant application? The Elm Creek WMO has already acted to approve submitting the application, subject to review and approval by the City of Corcoran and by the Chair of the Commission. Wenck Associates is preparing the application at no charge to the Commission. The application is due August 8, 2016.

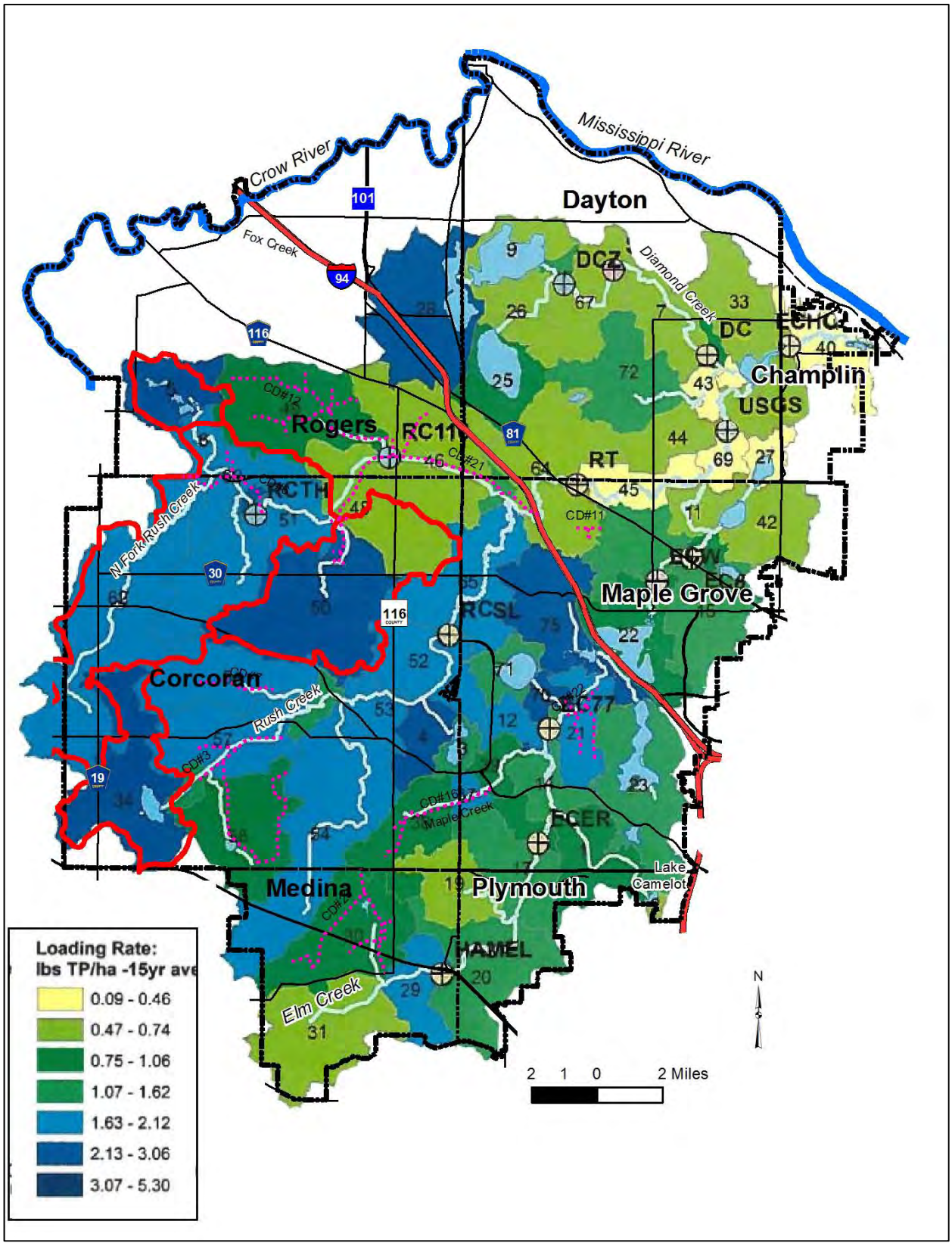


Figure 1. Elm Creek TMDL modeled TP loading rates. Subwatersheds proposed for assessment are shown outlined in red. Darker blue subwatersheds have the potential to contribute high loads of sediment and nutrients than the lighter greens and yellow. The area in white drains directly to the Crow River or Mississippi River and was not modeled.

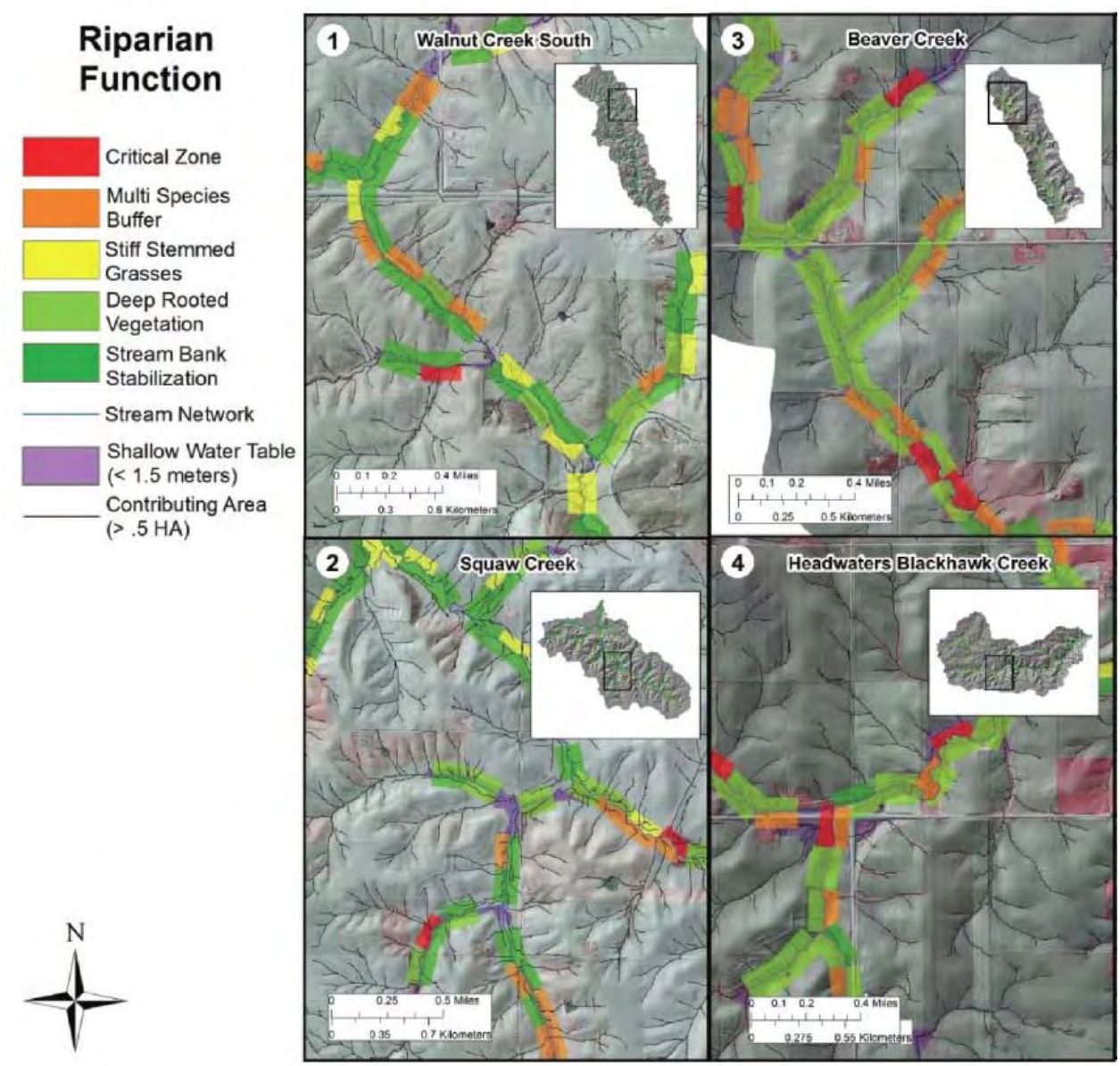


Figure 2. An example of output from ACPF showing the best types of stream buffers and critical area for protection.

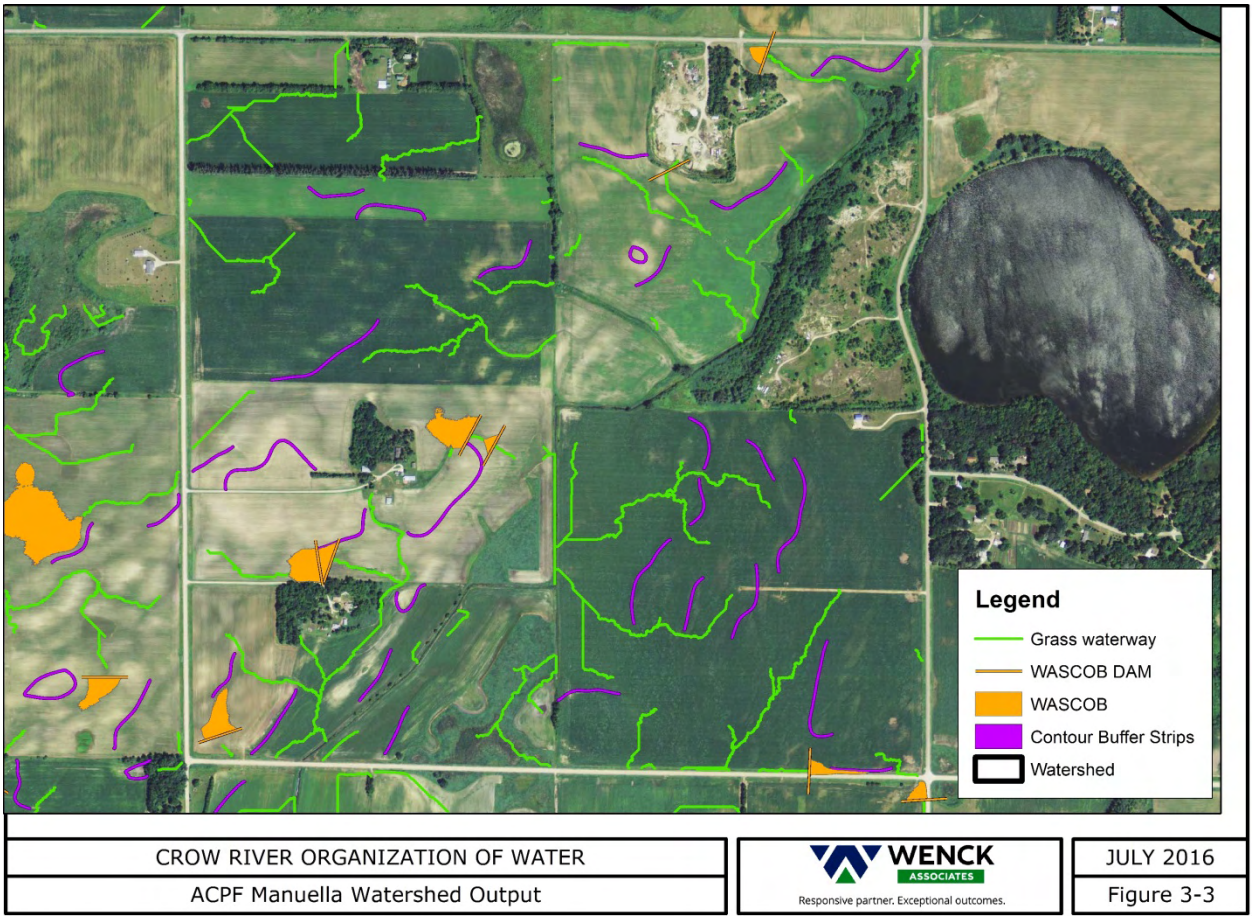


Figure 3. An example of output from ACPF showing different types of practices that would be technically feasible and could be considered on a particular field. The next step would be to work with the owner to determine which of these practices would work best with their operations.