

St. Paul, MN 55155-4194

WPLMN Final Progress Report

Watershed Pollutant Load Monitoring Network (WPLMN)

Doc Type: Contracts Final Report

l.	Project information	tion					
	Project title: FY16 R	CRCA Watershed Pollutant Load Mo	nitoring Netwo	rk Project			
	Local Partner infor	mation:					
	Organization name:	Redwood - Cottonwood Rivers Contr	ol Area (RCR	CA)			
	Street address: 1424	East College Drive, Suite 300					
	City: Marshall		State: MN		Zip code: <u>56258</u>		
	Primary contact name:	Kerry Netzke		Phone:	507-532-1325		
	Email address:	kerry.netzke@rcrca.com		Fax:			
	Fiscal contact name:	Kerry Netzke		Phone:	507-532-1325		
	Email address:	kerry.netzke@rcrca.com		Fax:			
	Field contact name:	Shawn Wohnoutka		Phone:	507-532-1325		
	Email address:	shawn.wohnoutka@rcrca.com		Fax:			
	Reporting period for Section II Table 1:						
	Start date: 1/1/2020 (mm/dd/yy)	End date: <u>12/31/2020</u> /y)					
	(
	Project details:						
	Basin (check all that apply):						
	☐ Red River ☐ Rainy River ☐ Lake Superior ☒ Minnesota ☐ Lower Mississippi ☐ St. Croix ☐ Upper Mississippi						
	Major Watershed(s):	Redwood, Cottonwood, MN River - M	Mankato	Hydro	logic unit code(s): 0702(0006,0007,0008)		
	Name of eligible laboratory: Minnesota Valley Testing Laboratories (MVTL), Inc New Ulm, MN						
	How many full-time eq	uivalents (FTEs) worked on this proje	ect (total projec	ct hours/2	,088 hours): 1.46		
II.	Activities compl	eted					

Table 1: Workplan activities

Please list activities completed during the reporting period. Include task level detail as appropriate. Please separate activities by calendar year, if applicable. Refer to the instructions for examples. (Insert more rows as needed by hitting the tab key in the last row/column.)

This section includes activities completed in 2020. Previous years' activities can be found on past Interim Progress Reports.

Objective	Description
1 Stream Monitoring Task A	Hach HQ40D handheld meter was purchased 1/29/2020. Supplies were purchased as needed throughout the 2020 calendar year.
1 Stream Monitoring Task B	RCRCA Staff are familiar with the sites. No field training with MPCA or DNR staff was conducted due to Covid-19 restrictions.
1 Stream Monitoring Task C	Collected 127 samples from the 7 monitoring sites and delivered to MVTL for analysis. Field data collected at each site. Ice leaving upstream subwatershed sites by early March. All 7 sites were sampled by 3/15/2020.
	In reviewing the gage data, Redwood River (N Marshall) appears to be open around 3/1/2020.

Redwood River (Russell) appears to be losing ice cover around 3/1/2020. First samples at these two sites were taken on 3/5/2020. Redwood River near Redwood Falls was 80%-90% ice-covered on 3/5/2020 with water running over the top of the ice cover. The first sample at the Redwood River near Redwood Falls was collected on 3/9/2020.

Cottonwood subwatershed sites appear to be 100% ice-covered on 2/28/2020 as indicated by gage readings.

Sleepy Eye Creek had 5%-10% shore ice downstream and an ice jam upstream on 3/3/2020. There was open water with a bit of shore ice downstream on 3/6/2020. The first sample at Sleepy Eye Creek site was collected on 3/6/2020. Cottonwood River near Leavenworth was at 80%-90% ice cover on 3/3/2020 with water moving along the north bank. The Leavenworth site was open and first sample collected on 3/6/2020. Cottonwood River at New Ulm had a channel open throughout most of the winter season and had 50% ice cover on 2/28/2019. Similar ice conditions with higher stage was observed on 3/3/2020; no sample was collected. The river was out of bank with an ice jam present during the 3/6/2020 stop; a sample was able to be collected. The Cottonwood River in New Ulm was ice free and back within its banks on the 3/9/2020 stop.

Minnesota River at Morton was 100% ice and snow-covered on 2/28/2020, and 100% ice-covered on 3/2/2020 with water flowing over ice along the banks. The river was still ice-covered with water out of banks and flow along the banks on 3/9/2020. The ice appears to have cleared out on 3/14/2020 and the first sample was collected on 3/15/2020.

The 2020 season was impacted by the Governor's "Stay-at-Home" Executive Order and no samples were collected between the end of March and early May. The 2020 season was below average for precipitation and river flow. Subwatershed sites were sampled 14 to 23 times each. Major watershed sites were sampled 19 to 23 times each. One duplicate sample was taken at five of the seven sites during the 2020 season. The equipment blank was not collected.

1 Stream Monitoring Task D	Collected stream transparency, stream conditions and data logger/water level information at each site during the 2020 season. Information was reported using the GoCanvas app.
1 Stream Monitoring Task E	When used, the field meter was calibrated weekly before sampling, monthly during the winter months, and recorded into the calibration log book.
2 Data Mgmt Task A	Reviewed all lab results submitted to EQuIS by MVTL for accuracy.
2 Data Mgmt Task B	Submitted visual observations, collected field meter measurements and water level data from each site via GoCanvas throughout the season.
2 Data Mgmt Task C	Photos and field data were submitted via GoCanvas throughout the season. Field meter calibration logs and field notes were submitted via e-mail on 11/3/2020.
2 Data Mgmt Task D	Completed load calculations for the 2018 calendar year for all seven sites using Flux32 model and verified data with MPCA personnel. Loads for the 2019 calendar year were calculated for three sites and verified for two sites.
2 Data Mgmt Task E	No training conducted in 2020 due to Covid-19 restrictions.
3 Project Oversight Task A	Reviewed all MVTL invoices for accuracy. With a new Master Contract, testing prices charged to the grant were not always consistent with the new contract. Tracked 2020 project expenditures and submitted quarterly invoices to MPCA for reimbursement. Three change orders were executed during this period to direct remaining grant funds to objectives where the funds could be fully utilized.
3 Project Oversight Task B	2019 Interim Report was submitted on 1/14/2020. This final report was drafted by year end with only the last MVTL invoice remaining for inclusion and hydrographs.
3 Project Oversight Task C	The Check-In Meeting was held 1/21/2020 with RCRCA staff and MCPA project managers.
3 Project Oversight Task D	Primary sampler participated in weekly teleconferences with the project manager, other MPCA staff and WPLMN local partners.
3 Project Oversight Task E	No training conducted in 2020 due to Covid-19 restrictions.

Please answer the following questions for activities completed in 2020.

a.	Were FLUX32 pollutant loads submitted to your MPCA Project	Manager?
----	--	----------

Please list the sites and year(s) that loads were calculated:

Three sites were analyzed with FLUX for the 2019 season consisting of: Redwood River in Russell/S000-696/H27043001, Sleepy Eye Creek/S001-919/H29011001, and Cottonwood River at Leavenworth/S001-920/H29022001. Redwood River in Russell has not been verified while the other two sites are verified. The remaining four sites are awaiting USGS flow data.

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 Use your preferred relay service • Available in alternative formats Page 2 of 12

All seven sites were analyzed with FLUX for the 2018 season. Sites are listed below.

Minnesota River at Morton/S000-145/E28012001, Redwood River outlet/S001-679/E27035001, Redwood River North of Marshall/S001-203/W27043003, Redwood River in Russell/S000-696/H27043001, Sleepy Eye Creek/S001-919/H29011001, Cottonwood River at Leavenworth/S001-920/H29022001, Cottonwood River outlet/S001-918/E29001001

lf	no,	please	descri	be w	hy:
----	-----	--------	--------	------	-----

	b.	Were you able to attend a majority of the weekly check-in telephone conferences during the reporting period?
	C.	Was a backup sampler used to collect any of the samples? ☑ Yes ☐ No If yes, please describe when, who, if they were trained, and any other details: Backup sampler, Kerry Netzke, collected the 6/26/2020 sample at the Redwood River in Russell site.
2.	Ple	ase answer the following questions relating to the deliverables for the entire project.
	a.	When was the Quality Assurance Project Plan executed? Date (mm/dd/yyyy): 2/25/2016
	b.	Were any changes made to the Quality Assurance Project Plan during the reporting period? ☐ Yes ☒ No Revision date (mm/dd/yyyy): If yes, please summarize:
	c.	Were Interim Progress Reports submitted?
		2016: Yes No Submittal date (mm/dd/yyyy): 1/30/2017 If no, please describe why:
		2017: Yes No Submittal date (mm/dd/yyyy): 1/26/2018 If no, please describe why:
		2018: ☑ Yes ☐ No Submittal date (mm/dd/yyyy):
		2019: Yes No Submittal date (mm/dd/yyyy): 1/14/2020 If no, please describe why:
3.	exp	ase answer the following questions and provide comments to the following questions regarding the overall berience during the contract. Were you comfortable with your level of training and current ability to: a. Collect stream samples over the entire range of the hydrograph? Yes No Comments:
	b	Comments: Issues with calibration solutions led to no use of the field meter/probes until late July 2020. Previously, solutions were used for the whole sampling season, but now are only acceptable for calibration for one month. This change in protocol and acquiring the solutions from MPCA in a timely manner were challenging.
	_	· • • — —

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 • Use your preferred relay service • Available in alternative formats wq-swm2-06h • 1/8/16 Page 3 of 12

		Comments:
	d.	Use the FLUX32 model and submit pollutant load data and supporting information? ☐ Yes ☐ No Comments:
	e.	Complete and submit invoices? ☐ Yes ☐ No Comments:
	f.	Complete the Interim Progress Report? ☐ Yes ☐ No Comments:
4.		ribe in detail any problems, delays, or difficulties that occurred in fulfilling the requirements of the plan in 2020. How did you resolve these problems?
	Fortu	to the Governor's Executive Orders, no sampling or work on the project was allowed for 6 weeks in April/May 2020. nately, this grant could be extended to 12/31/2020 and funds could be redirected via change order to complete the and begin FLUX load calculations and verifications for the 2019 sampling year with available data.
5.	•	there any change orders and/or amendments to the contract and workplan in 2020? If yes, summarize the
	⊠ Y	'es □ No
		Comments:
		CO#8: This change order details changes needed in order to continue water sampling for this project through December 2020. 1. Move \$9,108.25 from Water Quality Technician to Obj. 1 Laboratory; 2. Move \$76.25 from Water Quality to Obj. 1 Travel; 3. Move \$212.88 from Obj. 1 Equipment and Supplies to Office Manager, Total of 6 hours; 4. Move \$81.82 from Obj. 1 Shipping to Obj. 1 Travel; 5. Move \$11.56 from Obj. 1 Training (Lodging) to Obj. 1 Travel; 6. Move \$25.03 from Obj. 1 Per Diem to Obj. 1 Travel; and 7. Workplan Changes: Change wording in workplan to reflect work being done in 2020.
		CO#9: This change order details changes needed in order for work to continue for this project through December 2020.
		1. Move \$2,461.80 from Obj. 1 Lab to Water Quality Technician; 2.Move \$390.28 from Obj. 1 Mileage to Office Manager
		and 3.Move \$345.00 from Obj. 1 Mileage to Executive Director; Total: \$3,197.08. The FTE was updated in the workplan.
		CO#10: This change order details changes needed in order for work to continue for this project through December 2020 and to zero out remaining funds in the budget. 1. Moove \$107.93 from Obj. 1 Lab to Executive Director. 2. Move \$30/12 from Obj. 1 Lab to Office Manager. 3. Move \$81.46 from Obj. 1 Mileage to Office Manager, and 4. Move \$80.51 from Obj. 1 Equipment to Office Manager. Total: \$300.02.
6.	If the	re are unspent funds, please list the Objective and Task and explain the reason for the unspent funds:
7.	Pleas	se provide any constructive feedback regarding the WPLMN (training, forms, program directives, etc.):
	The1 knew that t	0/2/2019 training in Brainerd was extremely interesting with the State Climatologist's presentation. Although we that 2018 and 2019 were very busy for RCRCA with additional rainfall and sampling events, we were not aware he brunt of the rainfall was occuring in the Redwood and Cottonwood watersheds, especially along the Hwy 14 lor. Redwood Falls, MN received numerous record-setting precipitation events during this time frame.

www.pca.state.mn.us • 651-296-6300 • 800-657-3864 Use your preferred relay service • Available in alternative formats wq-swm2-06h • 1/8/16 Page 4 of 12

III. Budget information

This budget summary is a compilation of the entire contract.

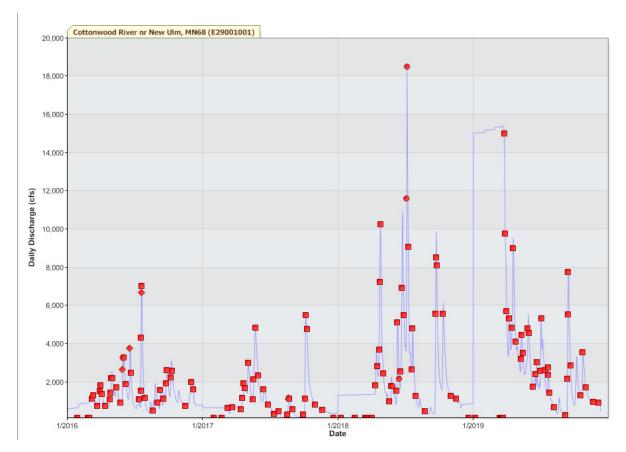
Contract execution date: 1/15/2016

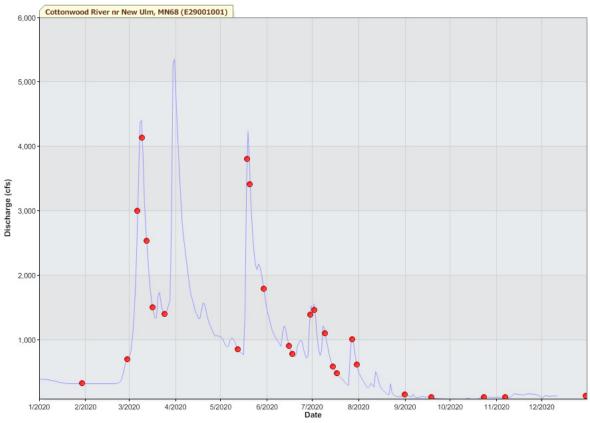
Contract End Date: 12/31/2020

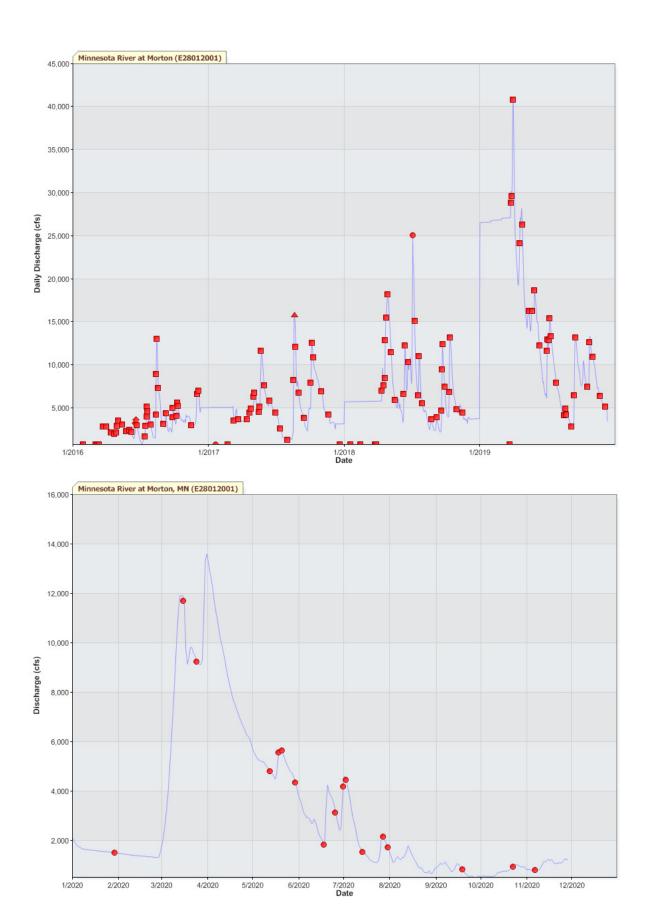
Budget item	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Total expended
Objective title:	Stream Monitoring	Data Management & Analysis	Project Oversight			
Personnel: wages and benefits						
Staff #1:				_	_	
No. of hours <u>2218.50</u>	\$ 51,956.05	\$ 25,402.66	\$ 4,141.20	\$	\$	\$ 81,500.50
Staff #2:	Φ.	\$	¢ 14 016 00	\$	¢.	\$ 14,916.29
No. of hours <u>426.00</u>	\$	Ф	\$ 14,916.29	Ф	\$	\$ 14,910.29
Staff #3: No. of hours 401.25	\$ 6,036.15	\$ 84.14	\$ 17,087.65	\$	\$	\$ 23,207.93
Staff #4:	φ 0,000.10	ΨΟΠΙΙ	Ψ 17,007.00	Ψ	Ψ	¥ =0,=01100
No. of hours	\$	\$	\$	\$	\$	\$
Staff #5:						
No. of hours	\$	\$	\$	\$	\$	\$
Staff #6:			_	_		
No. of hours	\$	\$	\$	\$	\$	\$
Staff #7:	\$	Φ.	\$	\$	¢.	\$
No. of hours	Ф	\$	Ф	Ф	\$	P
Staff #8: No. of hours	\$	\$	\$	\$	\$	\$
Staff #9:	Ψ	Ψ	Ψ	Ψ	Ψ	<u> </u>
No. of hours	\$	\$	\$	\$	\$	\$
Laboratory analyses: No. of samples 986	\$ 66,144.86	\$	\$	\$	\$	\$ 66,144.86
Travel reimbursement: No. of miles 29,076	\$ 15,797.63	\$ 160.50	\$	\$	\$	\$ 15,958.13
Monitoring supplies and Equipment	\$ 8,722.53	\$	\$	\$	\$	\$ 8,722.53
Shipping	\$	\$	\$	\$	\$	\$
Lodging	\$ 208.44	\$	\$	\$	\$	\$ 208.44
Other (describe the activity and cost – be specific):						
Per Diem (Meals)	\$ 62.97	\$	\$ 20.00	\$	\$	\$ 82.97
\	\$	\$	\$	\$	\$	\$
Column total:	\$ 148,929.23	\$ 25,647.29	\$ 36,165.13	\$	\$	\$ 210,741.65

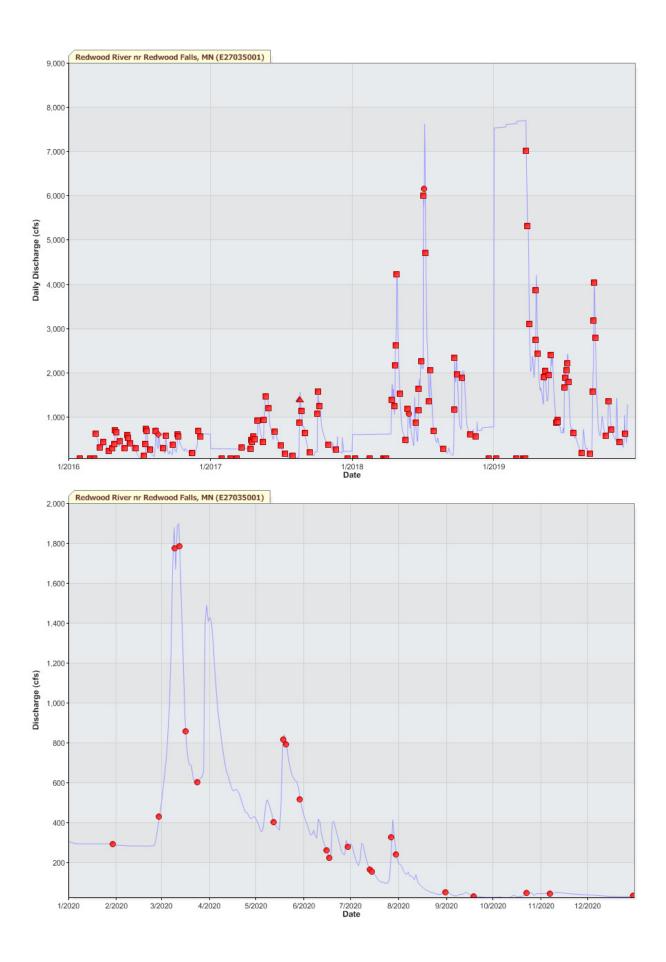
Comments:

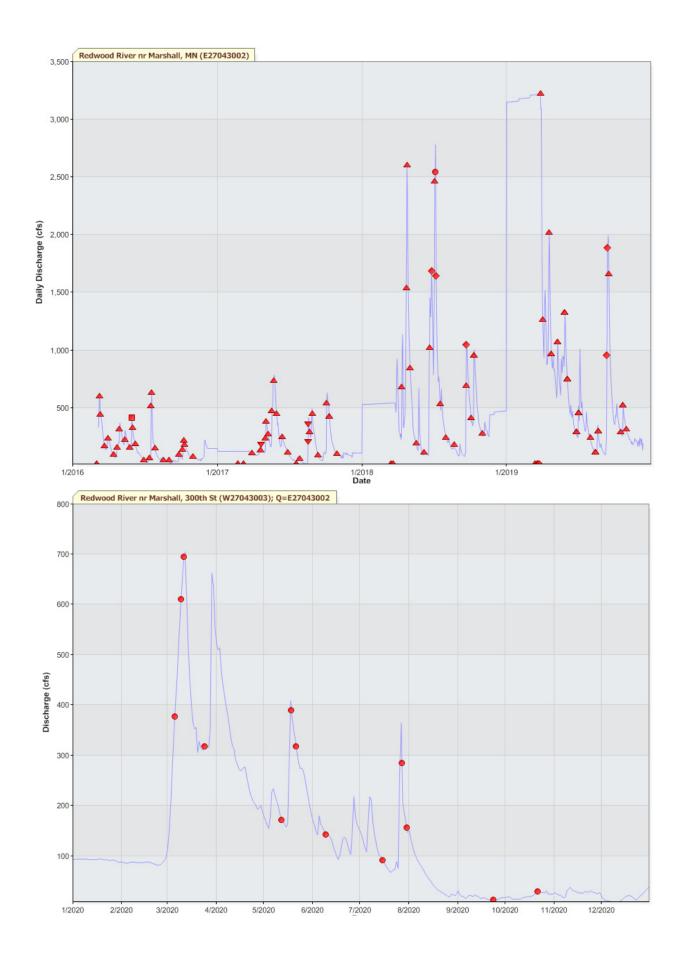
Comments:











Page 9 of 12

