



WPLMN Interim Progress Report

Watershed Pollutant Load Monitoring Network (WPLMN) Sampling Grant

Doc Type: Grant Application

Instructions on Page 5

I. Project Information

Project title: RCRCA Principal Waters Pollutant Load Monitoring Network Project

Grantee information:

Organization name: Redwood - Cottonwood Rivers Control Area (RCRCA)

Street address: 1241 East Bridge Street

City: Redwood Falls State: MN Zip code: 56283

Grant contact name: Kerry Netzke Phone: 507-637-2142

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Fiscal contact name: Kerry Netzke Phone: 507-637-2142

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Field contact name: Shawn Wohnoutka Phone: 507-637-2142

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Reporting Period:

Start date: 1/15/2013 End date: 12/31/2013
(mm/dd/yyyy) (mm/dd/yyyy)

Project location:

Basin (check all that apply):

Red River Rainy River Lake Superior Minnesota Lower Mississippi St. Croix Upper Mississippi

Major Watershed(s): Cottonwood and Redwood Hydrologic unit code(s): 07020008, 07020006

Name of eligible laboratory: MVTL

II. Activities Completed

Table 1: Workplan Activities

1. Please list activities completed during the report period by Workplan Objective. Include task level detail as appropriate. Refer to the instructions for examples. (Insert more rows as needed by hitting the tab key in the last row/column.)

Objective	Description
1.Stream Monitoring Task A	QAPP was drafted and approved in January 2013. In February 2013, Grantee purchased monitoring and safety equipment for the project. Contact with MVTL was made to confirm prices and billing information.
Task B	Two staff attended field training on 3/13/13 with MPCA and DNR. Field training with Kelli Nerem was obtained in February and with DNR in May 2013.
Task C	Ice leaving some sites by late March, other sites not clear of ice until early April. Subwatershed sites were sampled 14-16 times each. Major Watershed/Basin sites were sampled 26-27 times each.
Task D	Two field duplicates were taken at each major watershed/basin site and one duplicate was taken at each subwatershed site during the 2013 monitoring season.
Task E	The field meter was calibrated weekly before sampling and recorded into the calibration log book which was submitted by November 1, 2013.

2.Data Management Task A	Submitted monitoring data for EQUIS entry.
Task B	The Grantee prepared, submitted and organized data for November submittal including site inspection sheet, photos, photo log, and stage data. Site inspection and EQUIS submitted throughout the season as requested.
Task C	One staff member attended Flux32 training on 10/8/13 with MPCA.
3.Project Oversight Task A	Tracked project expenditures and submitted invoices (3/31/13; 7/19/13; 10/8/12; 12/12/13; and 12/31/13) abiding by reporting requirements.
Task B	Interim Report was compiled and submitted on January 31, 2014.
Task C	Two staff attended invoice training on 3/13/13.
Task D	Participated in weekly check-in telephone conferences.

2. Please answer the following questions relating to the deliverables for the project. If answered no to any of the questions, please indicate reasons under the Comments section.

Was the Quality Assurance Project Plan approved by the QA/QC Coordinator and your Project Manager prior to the monitoring season?

Yes No Approval date (mm/dd/yyyy): 01/28/2013

Were the field meter calibration log, EQUIS template, site inspection spreadsheet, and digital photos, submitted to your MPCA Project Manager by November 1?

Yes No Last submittal date (mm/dd/yyyy): 11/18/2013

Was the FLUX32 results template submitted to the MPCA Project Manager by the September 1 due date?

Yes No Last submittal date (mm/dd/yyyy): _____

Were you able to attend a majority of the weekly check in telephone conferences during the reporting period?

Yes No

Comments:

Comment related to data submission. All data submitted by 11/1/13 - EXCEPT: updated EQUIS DB (late Oct. sample data received) and digital photos were burned to CD and mailed 11/7/13. FLUX32 not ran this year, will do 2013 by 9/1/14.

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:

New employee assisted primary sampler and took samples under direct supervision of primary sampler (training). Dates of this occurring include: 6/11/13, 6/17/13, 6/24/13, 7/10/13. Dallas Mahoney was the trainee/new employee.

Table 2: Lab Analyte Summary

3. Please enter the number of samples collected at each site for each analyte. Refer to the instructions at the end of this report for an example of the completed table. Please describe conditions when either sample count was more or less than what is specified in the workplan. (Insert more rows as needed by hitting the tab key in the last row/column.)

<insert your table here or type in table below>

Stream Name	EQUIS ID	TSS	SVS	Turbidity	OP	TP	NOx	TKN	Comments
Minnesota River	S000-145	27	27	27	27	27	27	27	
Redwood River	S001-679	26	26	26	26	26	26	26	
Redwood River	S001-203	14	14	14	14	14	14	14	Dry conditions limited sampling in later part of season
Redwood River	S000-696	15	15	15	15	15	15	15	Dry conditions limited sampling in later part of season
Cottonwood River	S001-920	16	16	16	16	16	16	16	Dry conditions limited sampling in later part of season
Sleepy Eye Creek	S001-919	15	15	15	15	15	15	15	Dry conditions limited sampling in later part of season
Cottonwood River	S001-918	26	26	26	26	26	26	26	

Table 3: QA/QC Samples Summary

4. Please complete the table below. The table should include actual results for the original and duplicate samples. The RPD should be calculated. Provide additional information in the comments about site conditions, sampling error, etc., if known. (Insert more rows as needed by hitting the tab key in the last row/column.)

Stream Name	Date		TSS	RPD	SVS	RPD	Turbidity	RPD	DOP	RPD	TP	RPD	NOx	RPD	TKN	RPD
Minnesota River	6/17/2013	Sample	81	14.9	16	6.1	52	3.8			0.157	2.5	5.85	0.9		
		Duplicate	94		17		54			0.161	5.9					
Minnesota River	9/18/2013	Sample	67	1.5	20	5.1	38	2.7	0.068	36.5	0.233	1.3	0.2	0.0	1.4	0.0
		Duplicate	66		19		37		0.047		0.236		0.2		1.4	
Redwood River (S001-679)	6/13/2013	Sample	212	9.4	31	6.7	120	8.7			0.405	2.0	12	0.8		
		Duplicate	193		29		110			0.413	11.9					
Redwood River (S001-679)	9/18/2013	Sample	43	15.1	16	6.1	31	0.0	0.131	10.1	0.325	1.2	0.2	0.0	1.2	0.0
		Duplicate	50		17		31		0.145		0.329		0.2		1.2	
Redwood River (S001-203)	7/10/2013	Sample	34	3.0	9	0.0	18	0.0	0.264	4.4	0.372	0.3	3.43	0.9	1.6	37.0
		Duplicate	33		9		18		0.276		0.373		3.4		1.1	
Redwood River (S000-696)	7/2/2013	Sample	59	5.2	12	8.7	35	0.0			0.198	2.5	2.82	0.0		
		Duplicate	56		11		35			0.203	2.82					
Cottonwood River (S001-920)	7/2/2013	Sample	98	1.0	17	5.7	52	1.9			0.237	0.4	10	0.0		
		Duplicate	99		18		51			0.238	10					
Sleepy Eye Creek	9/18/2013	Sample	8	31.6	6	15.4	2.4	4.3	0.009	25.0	0.039	12.0	0.2	0.0	0.7	33.3
		Duplicate	11		7		2.3		0.007		0.044		0.2		0.5	
Cottonwood River (S001-918)	6/13/2013	Sample	185	18.9	24	4.3	88	4.7			0.295	3.8	9.62	0.2		
		Duplicate	153		23		84			0.284	9.6					
Cottonwood River (S001-918)	9/18/2013	Sample	22	4.7	10	9.5	9.4	1.1	0.007	15.4	0.051	2.0	0.36	8.7	0.7	13.3
		Duplicate	21		11		9.5		0.006		0.050		0.33		0.8	

Comments:

NOx samples were under the reporting minimum of <0.2 and reported as 0.2 in this table. This applies to the following samples: MN River on 9/18/13, Redwood River (S001-679) on 9/18/13 and Sleepy Eye Creek on 9/18/13. Duplicates were not taken as it was not realized that it was required for every analyte. It was not until the July telephone conference where the requirement became known and the protocol was changed.

5. Please answer the following questions and provide comments.

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:

Due to the large area covered and variable timing for peak flows, not each and every event is able to be captured at every sample location. We have done our best to cover the whole range of flows at each sample location.

- b. Calibrate and use the field meter and equipment? Yes No

Comments:

No issues arose during this 1st year.

- c. Enter data and information into the MPCA templates and logs? Yes No

Comments:

MPCA staff is very helpful in answering questions and providing guidance for this task.

- d. Use the Flux32 model to accurately and submit pollutant loads and session zip files? Yes No

Comments:

Feedback for submitted findings would be helpful in fine-tuning or adjusting my methods. Did not use Flux32 for this program yet, but have used previously in other projects..

- e. Complete and submit invoices? Yes No

Comments:

Some concern is had with using invoice date instead of paid date as invoices can lag as much as a month. Using paid date would simplify the invoice process. Perhaps a one-month grace period could be allowed.

- 6. Describe in detail any problems, delays, or difficulties that occurred in fulfilling the requirements of the grant work plan. How did you resolve these problems?**

We had very dry conditions after the first month of summer. These base-flow conditions restricted the number of samples taken after June. All sample sites were under the allotment of samples for the 2013 season. We hope to use the excess sample funds to provide more coverage to this year's (2014) sample season.

- 7. Were there any change orders and/or amendments to the grant contract and/or work plan? If yes, summarize the changes.**

Yes No

Comments:

III. Budget Information

Please insert the "Total Grant Amount" and "Cumulative Grant Expenditures through this period".

Press the Tab key after each entry to activate the formatting. The "Balance" will automatically calculate.

	Amount
Total Grant Amount:	\$138,033.10
Cumulative Grant Expenditures through this period:	\$56,128.80
Balance:	\$81,904.30

If budget information does not encompass all expenditures through December 31, please provide the date. (Note: Documented amounts must be within 30 days of December 31.) _____

(mm/dd/yyyy)

Please copy the Summary tab from your most recent invoice spreadsheet (not to exceed 30 days). See Instructions for more details.

Objective	Line Item	MPCA Grant Funds Awarded	MPCA Grant Funds Expended prior to this Invoice	MPCA Grant Funds Expended this Invoice	MPCA Grant Funds Expended	Balance	Budget Expended (%)
1) Stream Monitoring	Personnel	\$23,810.00	\$14,162.62	\$0.00	\$14,162.62	\$9,647.38	59%
1) Stream Monitoring	Laboratory	\$38,786.00	\$13,173.60	\$283.80	\$13,457.40	\$25,328.60	35%
1) Stream Monitoring	Travel	\$6,660.00	\$2,622.78	\$57.63	\$2,680.41	\$3,979.59	40%
1) Stream Monitoring	Monitoring supplies	\$3,445.00	\$2,995.88	\$0.00	\$2,995.88	\$449.12	87%
2) Data Management and Analysis	Personnel	\$33,700.00	\$5,525.60	\$0.00	\$5,525.60	\$28,174.40	16%
2) Data Management and Analysis	Travel	\$233.10	\$67.80	\$0.00	\$67.80	\$165.30	29%
2) Data Management and Analysis	Training and materials	\$54.00	\$9.08	\$0.00	\$9.08	\$44.92	17%
3) Reporting, Invoicing, and Oversight	Personnel	\$31,345.00	\$17,230.01	\$0.00	\$17,230.01	\$14,114.99	55%
Total:		\$138,033.10	\$55,787.37	\$341.43	\$56,128.80	\$81,904.30	41%

