



Minnesota Pollution Control Agency

520 Lafayette Road North  
St. Paul, MN 55155-4194

# WPLMN Final Progress Report

## Watershed Pollutant Load Monitoring Network (WPLMN)

Doc Type: Contracts Final Report

Instructions on Page 6

### I. Project information

Project title: Rainy River Basin WPLMN Sampling Program

#### Local Partner information:

Organization name: Koochiching Soil and Water Conservation District

Street address: 501 3<sup>rd</sup> St. Ste. 201

City: International Falls State: MN Zip code: 56649

Primary contact name: Pam Tomevi Phone: 218-283-1174

Email address: pam.tomevi@co.koochiching.mn.us Fax: \_\_\_\_\_

Fiscal contact name: Pam Tomevi Phone: 218-283-1174

Email address: pam.tomevi@co.koochiching.mn.us Fax: \_\_\_\_\_

Field contact name: Eric Olson Phone: 218-283-1175

Email address: eric.olson@co.koochiching.mn.us Fax: \_\_\_\_\_

#### Reporting period for Section II Table 1:

Start date: 1/1/2020 End date: 10/12/2020  
(mm/dd/yyyy) (mm/dd/yyyy)

#### Project details:

Basin (check all that apply):

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

Major Watershed(s): Big Fork River, Little Fork River, Rainy River-Rainy Lake, Vermillion River Hydrologic unit code(s): 09030006, 09030005, 09030003, 09030002

Name of eligible laboratory: RMB Environmental Laboratories, INC.

How many full-time equivalents (FTEs) worked on this project (total project hours/2,088 hours): .96

### II. Activities completed

#### 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	Grantee visited sites from January – March and did not monitor sites again until early May due to Covid-19.

1 Stream Monitoring Task C	Grantee contacted RMB Labs to request sample bottles and arrange billing/shipping information and prices. Grantee also purchased necessary equipment needed to sample such as ice picks, ProDSS and accompanying accessories for the ProDSS.
1 Stream Monitoring Task D	Lead sampler attended WebEx meetings held by MPCA staff for the 2020 monitoring season on March 5 <sup>th</sup> and a Covid-19 response on March 18 <sup>th</sup> and attended monthly/biweekly calls for project updates throughout the reporting period.
1 Stream Monitoring Task E	Lead sampler under sampled all sites mainly due to Covid-19 and missing about 1.5 months of peak spring runoff and snowmelt. Two field replicates samples were taken at each subwatershed site (S007-612, S004-871, S002-553, S006-505, S002-551, and S002-552) and two field replicate samples were taken at each major watershed site (S002-556 and S004-000, and S005-088). A blank sample was not collected at any site over 2020. In addition to the field replicate samples in 2019, 10 samples were taken at site S007-612, 12 samples taken at S002-552, 12 samples taken at S002-551, 12 samples taken at S004-871, 12 samples taken at S002-553, 9 samples taken at S006-505, 15 samples taken at S002-556, 15 samples taken at S004-000, and 12 samples taken at S005-088 during the reporting period.
1 Stream Monitoring Task F	The lead sampler collected and entered field information into the Canvas app. routinely. All inspections and information from each site were submitted the same day samples were collected. Secchi tube information was not entered during the winter months.
1 Stream Monitoring Task G	The lead sampler calibrated the field meter each week samples were taken and replaced probes as needed throughout the year. ProDss field meter started to be used on 2-13-20 and continued to be used for the remainder of the reporting period. A probe was replaced on 6-1-20 and covered under warranty from YSI minus the cost of shipping. Since the meter was new in February 2020 the probe has not been checked against the NIST thermometer during this reporting period,
2 Data Mgmt Task A	Grantee is paperless and submitting field data through Canvas app.
2 Data Mgmt Task B	Lead sampler submitted data into the Canvas app. by the 1st and 15th of each month throughout the year.
2 Data Mgmt Task C	For the major watershed sites, calibration logs were sent to the project manager by Feb. 1st. The photos were submitted entirely through the Canvas app. since we are "paperless."
2 Data Mgmt Task D	Lead sampler completed FLUX 32 pollutant load models on 1-10-20 for sites S002-552, S002-551, and S006-203 all for 2017 data. Sites S005-088 and S002-556 were completed on 5-8-20 and S004-000 was completed on 3-27-20 for 2018 data. Site S005-088 was completed on 7-1-20 for 2019 data.
3 Project Oversight Task A	Grantee tracked expenditures and submitted 3 quarterly invoices to the project manager in 2020 during this reporting period.
3 Project Oversight Task B	Grantee compiled and submitted interim progress report by February 1st, 2020 and displayed the report on the Koochiching SWCD website.
3 Project Oversight Task D	Lead sampler participated and updated project manager on sampling activities during progress calls and by email when not available.

1. **Please answer the following questions for activities completed in 2020.**

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

Yes  No  N/A

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

*FLUX 32 pollutant load models were calculated on 1-10-20 for sites S002-552, S002-551, and S006-203 all for 2017 data. Sites S005-088 and S002-556 were completed on 5-8-20 and S004-000 was completed on 3-27-20 for 2018 data. Site S005-088 was completed on 7-1-20 for 2019 data.*

If no, please describe why:

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

Yes  No

If no, please describe:

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:

*Sam Soderman collected 2 samples from S002-553 and S004-871 on 7-15-20. Sam is trained to sample under this grant.*

**2. Please 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): 06/02/2016

b. Were any changes made to the Quality Assurance Project Plan during the reporting period?

Yes  No Revision date (mm/dd/yyyy): 09/26/2017

If yes, please summarize:

*QAPP was revised to document the change in RMB Lab's N03-N02-N method.*

c. Were Interim Progress Reports submitted?

2016:  Yes  No Submittal date (mm/dd/yyyy): 2/1/2017

If no, please describe why:

2017:  Yes  No Submittal date (mm/dd/yyyy): 1/25/2018

If no, please describe why:

2018:  Yes  No Submittal date (mm/dd/yyyy): 1/16/2019

If no, please describe why:

2019:  Yes  No Submittal date (mm/dd/yyyy): 1/28/2020

If no, please describe why:

**3. Please answer the following questions and provide comments to the following questions regarding the overall experience 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. Calibrate and use the field meter and equipment?  Yes  No

Comments:

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

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. Describe in detail any problems, delays, or difficulties that occurred in fulfilling the requirements of the workplan in 2020. How did you resolve these problems?

5. Were there any change orders and/or amendments to the contract and workplan in 2020? If yes, summarize the changes.

Yes  No

Comments:

CO-03) Change order addressed the movement of funds from Personnel, Travel Reimbursement, Shipping, Training, and Per Diem to Laboratory Analyses to cover anticipated sampling costs and to Equipment and Supplies to assist in the purchase of a new sonde from YSI.

CO-04) This change order will address the movement of funds from Backup Sampling Staff to Lead Sampling Staff and from Equipment and Supplies and travel reimbursement to Shipping and Lab Analysis in order to complete sampling for the remainder of the contract.

6. If there are unspent funds, please list the Objective and Task and explain the reason for the unspent funds:

Unspent funds totaling \$123.44 were in Objective 1 for the following: \$3.00 backup sampler wages due to rate change in 2018 amendment; \$1.45 Laboratory; \$87.81 Mileage; \$9.99 Shipping; \$21.19 Equipment and Supplies

7. Please provide any constructive feedback regarding the WPLMN (training, forms, program directives, etc.):

### 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	Total expended
<b>Objective title:</b>				
<b>Personnel: wages and benefits</b>	\$	\$	\$5,272.50	\$5,272.50
Staff #1: <b>Project Manager</b> No. of hours <u>92.5</u>				
Staff #2: <b>Lead Sampling Staff</b> No. of hours <u>1571</u>	\$ 49,725.00	\$ 16,290.00	\$ 4,680.00	\$70,695.00
Staff #3: <b>Backup Sampling Staff</b> No. of hours <u>160</u>	\$ 6,315.00	\$ 724.50	\$	\$7,039.50
Staff #4: <b>Support Staff</b> No. of hours <u>179</u>	\$	\$	\$7,518.00	\$7,518.00
<b>Laboratory analyses:</b> No. of samples <u>811</u>	\$43,242.50	\$	\$	\$43,242.50
<b>Travel reimbursement:</b> No. of miles <u>25,070</u>	\$13,592.12	\$174.00	\$190.24	\$13,956.36
<b>Monitoring supplies and Equipment</b>	\$12,028.81	\$	\$	\$12,028.81
<b>Shipping</b>	\$1,837.01	\$	\$	\$1,837.01
<b>Lodging/Per Diem</b>	\$140.22	\$	\$115.75	\$255.97
<b>Other</b> (describe the activity and cost – be specific):				
	\$	\$	\$	\$
<b>Column total:</b>	<b>\$126,880.66</b>	<b>\$17,188.50</b>	<b>\$17,776.49</b>	<b>\$161,845.65</b>

Comments:

## IV. Hydrographs

Comments:











