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I. Project information

Project title: Red and Upper Mississippi Watershed Pollutant Load Monitoring

Local Partner information:

Organization name: International Water Institute

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State: ND

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Reporting period for Section II Table 1:

Start date: 1/1/2020
(mm/dd/yyyy)

End date: 3/21/2020
(mm/dd/yyyy)

Project details:

Basin (check all that apply):

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

Mustinka, Bois De Sioux, Otter Tail, Marsh,
Sandhill, Clearwater, Red Lake, Thief, Snake,
Tamarac, Two, Roseau, Mississippi River
(Headwaters-Lake Winnibigoshish), Leech Lake

09020101, 09020102,
09020103, 09020107,
09020301, 09020303,
09020304, 09020305,
09020309, 09020311,
09020312, 09020314,
07010101, 07010102,

Major Watershed(s): River, Mississippi River (Grand Rapids)

Hydrologic unit code(s): 07010103

Name of eligible laboratory: RMB Environmental Laboratories, Inc.

How many full-time equivalents (FTEs) worked on this project (total project hours/2,088 hours): 1.66 over a 4 year period.

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
Stream Monitoring Obj. 1 Task A	Field meters were calibrated weekly or as needed.
Stream Monitoring Obj. 1 Tasks BC	43 lab samples were collected at 17 sites in the Red River and Upper Mississippi Basins in 2020. See Section IV. Hydrographs below.
Data Management Obj. 3 Tasks ABC	Field data and Canvas information for November and December 2019 was submitted by February 1, 2020 MPCA project manager.
Data Management Obj. 3 Task D	2020 Load calculations using FLUX32 for flow year 2017 were completed for 7 sites. 2 staff attended FLUX32 training January 8, 2020 in Waite Park, MN.
Project Oversight Obj. 4 Tasks ABCD	This report satisfies the Final reporting requirement.
Project Oversight Obj. 4 Tasks EFG	Monitoring and administrative staff attended monthly check-in meetings.

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:

<i>Hydstra ID</i>	<i>Site Name (2017 Loads)</i>	<i>Date</i>
H09065001	Swan River nr Jacobson, CR438	2/5/20
H09118001	Willow River nr Palisade, CSAH5	2/5/20
H70021001	North Branch Two Rivers nr Northcote, CSAH4	2/7/20
H08034001	Leech Lake River nr Ball Club, CR139	2/7/20
H07062001	Mississippi River nr Bemidji, CSAH11	2/7/20
H65017001	Thief River nr Holt, CSAH7	3/10/20

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:

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): 3/22/2016

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

Yes No Revision date (mm/dd/yyyy): 11/2/2017

If yes, please summarize:

Please see MPCA internal documentation.

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): 2/23/2018
If no, please describe why:

2018: Yes No Submittal date (mm/dd/yyyy): 2/4/2019
If no, please describe why:

2019: Yes No Submittal date (mm/dd/yyyy): 02/26/2020
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?

None

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

Yes No

Comments:

Change order #7 moved funds to account for additional staff time and miles need for sampling activities in 2020 and documents site changes for 2020.

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

Unspent funds total \$4,260.62 this is 0.4% of the total funds awarded (\$1,024,735.43. See final reimbursement request for details.

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: 1/1/2016

Contract End Date: 03/21/2020

Budget item	Objective 1	Objective 2	Objective 3	Objective 4	Objective 5	Total expended
Objective title:	Monitoring	Mercury sampling	Data Management	Project Oversight		
Personnel: wages and benefits						
Staff #1: No. of hours <u>3217.25</u>	\$ 157511.25	\$	\$ 12240	\$ 7200	\$	\$ 176951.25
Staff #2: No. of hours <u>2790.25</u>	\$ 114898.75	\$ 5175	\$ 12240	\$ 7200	\$	\$ 139513.75
Staff #3: No. of hours <u>3821.25</u>	\$ 166441.25	\$ 5175	\$ 12240	\$ 7200	\$	\$ 191056.25
Staff #4: No. of hours <u>2335</u>	\$ 97312.50	\$	\$ 12240	\$ 7200	\$	\$ 116752.50
Staff #5: No. of hours <u>308.75</u>	\$	\$	\$	\$ 13893.75	\$	\$ 13893.75
Staff #6: No. of hours <u>657.50</u>	\$ 4027.50	\$	\$ 5200	\$ 36800	\$	\$ 46027.50
Staff #7: No. of hours _____	\$	\$	\$	\$	\$	\$
Staff #8: No. of hours _____	\$	\$	\$	\$	\$	\$
Staff #9: No. of hours _____	\$	\$	\$	\$	\$	\$
Laboratory analyses: No. of samples <u>3772</u>	\$ 217202.73	\$	\$	\$	\$	\$ 217202.73
Travel reimbursement: No. of miles <u>159158</u>	\$ 92311.19	\$	\$	\$	\$	\$ 92311.19
Monitoring supplies and Equipment	\$ 12585.79	\$	\$ 16.29	\$	\$	\$ 12602.08
Shipping	\$ 4706.92	\$ 318.43	\$	\$	\$	\$ 5025.35
Lodging	\$ 1993.46	\$	\$	\$	\$	\$ 1993.46
Other (describe the activity and cost – be specific):						
Per Diem	\$ 7145	\$	\$	\$	\$	\$ 7145
	\$	\$	\$	\$	\$	\$
Column total:	\$ 876136.34	\$ 10668.43	\$ 54176.29	\$ 79493.75	\$	\$ 1020474.81

Comments:

IV. Hydrographs

Comments:

03/24/2020 IWI Site Hydrographs



















