



Please complete and submit to your project manager.

Reporting Period: [X] January 1 through June 30 (Due August 1)
[] July 1 through December 31 (Due February 1)

All information is required by the U.S. Environmental Protection Agency (EPA) and the Minnesota Pollution Control Agency (MPCA). Do not leave blanks (unless otherwise noted). This report form can be typed using your computer. Use the "tab" key to move through the fields of this form. Enter responses using text and check boxes as indicated. Keep a copy for your records.

I. General Report Information

- 1. Project title: WFDNR Targeting and Prioritizing Endeavor
2. Project sponsor (Grantee): Heron Lake Watershed District
3. Contact name: Jan Voit, District Administrator
4. E-mail address: jan.voit@mysmbs.com
5. Funding: [] 319 [X] CWP [] CWP Loan [] Clean Water Fund [] Other:
6. Contract number: 93259
7. MPCA Project Manager: Katherine Pekarek-Scott
8. Effective date (mm/dd/yyyy): 6/15/2015 Expiration date (mm/dd/yyyy): 6/30/2018

II. Semi-annual Report Information

1. Project activities completed during last six (6) months according to the program objectives or tasks (please be specific):

Objective 1: Generate Enhanced Water Quality Products - Task A: Generate Travel Time Grids to Priority Resources

Complete - costs incurred in this reporting period for tasks completed in previous reporting period

Objective 1: Generate Enhanced Water Quality Products - Task B: Estimate Total Nitrogen (TN), Total Phosphorus (TP), Sediment, and Hydrologic Loading

Complete - costs incurred in this reporting period for tasks completed in previous reporting period

Objective 2: Develop Targeted Implementation Plan - Task A: Priority Area Identification

Input and processing of GIS/Geodatabase of priority resource points in treatment train tool to develop implementation plan and provide calculated implementation cost estimates and the estimated benefits

Processing BMP and conservation practice suitability analysis as part of implementation cost/benefit estimates to develop implementation plan scenarios

Objective 2: Develop Targeted Implementation Plan - Task B: Data Verification

No tasks completed

Objective 2: Develop Targeted Implementation Plan - Task C: BMP Truthing

Begin drafting of field verification tech memo

Objective 3: Knowledge and Technology Transfer - Task A: Develop Final Reports

Initial layout for components of data delivery in formats that assist in outreach and education

Objective 3: Knowledge and Technology Transfer - Task B: Conduct Training Workshops

No tasks completed

Objective 3: Knowledge and Technology Transfer - Task C: Refine Data Products and Training

No tasks completed.

Objective 4 Task A:

Met with Larry Kramka and Drew Kessler, HEI via conference call on January 31, 2017 to discuss project progress.

The annual report was uploaded to the HLWD website on March 22, 2017.

Larry Kramka contacted Jan Voit on June 6, 2017 with an update on project status. The technology component to this project has introduced considerable delays for task completion.

On June 20, 2017, a request was made to HEI for an invoice for costs through June 2017. This invoice was received on June 26 and paid on June 27.

On June 27, 2017, Jan Voit spoke with Katherine Pekarek-Scott, MPCA regarding the SAR budget and reimbursement request. Katherine provided a revised worksheet on June 27.

2. List all products (documents, pamphlets, videos, maps, etc.) produced in this reporting period:

No specific products produced during this time. The Geodatabase was processing and creating GIS data that will be assembled in the final product.

3. Challenges faced (optional):

HEI provided the following information regarding project challenges.

The technology component to this project has introduced considerable delays into our completion of tasks. The PTMAPP process has remained very slow for processing the data in the watershed. This data set remains the slowest one that we have ever done, by a considerable amount. For a couple of reasons we are approaching things differently through the end of the project.

We had the two scenarios running for well over 1200 hours each and both were less than 70% completed. On May 24th, ESRI decided to make all of our current network shared Arc licenses for an older version (which is what the processes were running on) no longer valid. This meant that all of the processes that we were running ceased to operate on 5/24, unless they had been started in the newer version. Because your data started so long ago, they were included in the older versions. We restarted the processing prior to the 24th to gain back whatever time we could, but this means we have lost considerable time. We also have made some modifications to the PTMAPP code to try to speed the process up and restarted the two scenarios on the updated system in order to see if these modifications can greatly improve the final delivery.

We have also identified a work around that will allow us to provide the project report and deliverables in a slightly less detailed fashion and then supplement the report with the more detailed results once the process is completed. We are hoping that the process changes allow us to complete the report with the detailed PTMAPP results at the same time. However, in order to make sure that we can complete the next steps in the process we can use the interim products to complete these tasks and get us back on schedule.

4. Summary of monitoring data collected (if applicable):

n/a

4a. Have all monitoring stations been established in EQUIS? Yes No N/A

4b. Are the data being routinely submitted for storage into EQUIS? Yes No NA

If yes, last submittal date (mm/dd/yyyy): _____

5. Are the Best Management Practices data being annually entered into eLINK)? Yes No N/A

If yes, date last entered (mm/dd/yyyy): _____

6. Describe specific (quantifiable, if possible) results achieved during this period:

n/a

Phosphorus Load Reduction: n/a lbs./year

Nitrogen Load Reduction: n/a lbs./year

Sediment Load Reduction: n/a lbs./year

7. Did the MPCA execute a change order or amendment for this project during this reporting period? No Yes

If yes, summarize those changes:

8 List anticipated program objectives or tasks to be completed during the next six (6) months please be specific):

Objective 1. Task A: completed

Objective 1. Task B: completed

Objective 2. Task A:

Completion of all remaining tasks, Geoprocessing and data products, and implementation plan

Objective 2. Task B:

Complete all remaining tasks including assembly of field verification candidate sites, field verification tasks, and compilation of field verification findings

Objective 2. Task C:

Complete all remaining tasks including, review compiled field verification data and adjustment of any bmp recommendations

Objective 3. Task A:

Complete final reports

Complete data package for outreach and education

Develop potential funding mechanisms

Objective 3. Task B:

Complete final workshop and all remaining tasks

Objective 3. Task C:

Complete debrief

Complete lessons learned

Complete final workshop materials and reports

Objective 4. Task A.

Complete semi-annual report

Submit reimbursement requests

Begin writing annual report

III. Expenditure Information for this Period

Provide a copy of your work plan budget showing cumulative expenditures and budget balances by work plan objective and task. Also, fill out the summary below.

Expenditure Report attached

Complete the table below:	Amount
Total Grant Amount	\$21,955.00
Total Match Amount (if applicable)	\$27,165.00
Total Project Amount	\$49,120.00
Grant Expenditures this period	\$3,657.25
Match Expenditures this period (if applicable)	\$3,572.75
Cumulative Grant Expenditures to date	\$5,658.25
Cumulative Match Expenditures to date (if applicable)	\$7,458.75
Total Cumulative Expenditures to date	\$13,117.00

Date form completed (mm/dd/yyyy): 7/19/2017