Watershed Semi-Annual Report for Reporting Year 2016

I. General Report Information

1. Project title: WFDMR 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 □ 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 Time Grids to Prioritize Resources
   - Final review, data adjustments, QA/QC and completion of data products

   Objective 1: Generate Enhanced Water Quality Products - Task B: Estimate Total Nitrogen (TN), Total Phosphorus (TP), Sediment, and Hydrologic Loading
   - Final review, data adjustments. QA/QC and completion of data products

   Objective 2: Develop Targeted Implementation Plan - Task A: Priority Area Identification
   - HLWD and consultant identified first draft of specific priority resources for targeted implementation
   - Performed first run GIS analysis of the hydrologically corrected DEM, SSURGO soils, and the 2011 National Land Cover Dataset (NLCD) to identify locations on the landscape that are suitable for BMP and conservation practices.
   - Identified candidate locations and developed preliminary targeted implementation approach that "measures" costs and improvements in TP, TN, and sediment that would result from implementing the BMPs and a format for presenting results

   Objective 2: Develop Targeted Implementation Plan - Task B: Data Verification
   - No tasks completed

   Objective 2: Develop Targeted Implementation Plan - Task C: BMP Truthing
   - No tasks completed

   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
   - A staff workshop was conducted on October 27, 2016.

   Objective 3: Knowledge and Technology Transfer - Task C: Refine Data Products and Training
No tasks completed.

Objective 4 Task A:

The semi-annual report was submitted on September 13, 2016. It was approved on September 20, 2016.

The annual report drafting began November 29, 2016.

Worked with Larry Kramka, HEI on the annual report. The accounting department at HEI is updating their system to better accommodate the billing for this grant. The invoice for this reporting period will be submitted in January 2017.

2. List all products (documents, pamphlets, videos, maps, etc.) produced in this reporting period:
   - Estimate Benefits
   - Practice Feasibility
   - Source Assessment
   - Target Practices
   - Heron Lake PTMApp Workshop PowerPoint presentation
   - Targeted Plan Summary
   - Staff Workshop Summary

3. Challenges faced (optional):
   n/a

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 ☒ N/A

   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:

   HLWD and consultant will complete identification of specific priority resources for targeted implementation, based on local knowledge and identified impairments, or locally significant resources

   Complete GIS analysis of the hydrologically corrected DEM, SSURGO soils, and the 2011 National Land Cover Dataset (NLCD) to identify locations on the landscape that are suitable for BMP and conservation practices.
Identified candidate locations will be reviewed to develop a targeted implementation plan that "measures" costs and improvements in TP, TN, and sediment that would result from implementing the BMPs.

Objective 2. Task B:
HEI will develop a field verification strategy and approach for HLWD staff
Site check to visually verify land use, practice suitability, and any potential additional physical parameters identified in verification strategy
Compile site verification data

Objective 2. Task C:
Use site verification information to adjust BMP recommendations
Complete final BMP recommendations

Objective 3. Task A:
Begin drafting elements of the final reports and technical memos

Objective 3. Task B:
Begin elements of workshop and training development
Develop approach to solicit feedback

Objective 3. Task C:
Develop concepts for debrief and follow up with HLWD

Objective 4. Task A.
Complete annual report
Submit bills for 2016 project costs
Submit reimbursement requests
Begin writing semi-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

<table>
<thead>
<tr>
<th>Complete the table below:</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Grant Amount</td>
<td>$21,955.00</td>
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<tr>
<td>Total Match Amount (if applicable)</td>
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<tr>
<td><strong>Total Project Amount</strong></td>
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<td>Grant Expenditures this period</td>
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<tr>
<td>Match Expenditures this period (if applicable)</td>
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<tr>
<td>Cumulative Grant Expenditures to date</td>
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<tr>
<td>Cumulative Match Expenditures to date (if applicable)</td>
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<tr>
<td><strong>Total Cumulative Expenditures to date</strong></td>
<td><strong>$5,887.00</strong></td>
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Date form completed (mm/dd/yyyy): 12/20/2016