

Heron Lake Watershed District

2017 Annual Plan and Budget



**WATERSHED
ASSISTANCE
THROUGH
EDUCATION &
RESOURCES**

H  **HERON LAKE WATERSHED DISTRICT**

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January 12, 2017

Heron Lake Watershed District 2017 Annual Plan

WATER QUALITY IMPROVEMENT PROGRAM

SURFACE WATER MONITORING

The HLWD WMP described the estimated annual surface water monitoring efforts, contingent upon adequate funding, as:

- Collecting water samples on Jack Creek, Okabena Creek, and the Heron Lake Outlet
- Collecting water samples on the Graham Lakes, Fulda Lakes, and Heron Lakes
- Analyzing water samples for total suspended solids, total phosphorus, orthophosphorus, ammonia nitrogen, nitrate-nitrite, total Kjeldahl nitrogen, chlorophyll A, suspended volatile solids, turbidity, dissolved oxygen, pH, and biochemical oxygen demand

Anticipated 2017 Activities:

- Collect 20 stream samples on Jack Creek, Okabena Creek, and the Heron Lake Outlet
- Submit data to Minnesota Valley Testing Laboratories for analysis
- Analyze stream samples for total suspended solids, total phosphorus, orthophosphorus, ammonia nitrogen, nitrate-nitrite, total Kjeldahl nitrogen, E. Coli, suspended volatile solids, turbidity, dissolved oxygen, pH, and temperature
- Compile data and submit to Minnesota Pollution Control Agency
- HLWD Watershed Technician wages and benefits
- HLWD Summer Interns' wages and benefits

BMP IMPLEMENTATION

The HLWD WMP described the estimated annual projects, contingent upon adequate funding, as:

- Filter strips – 200 acres
- Grassed waterways – 3 projects
- Terraces – 10 terraces
- Shoreline restoration – 1 project
- Rain gardens – 1 project
- Septic systems – 20 systems
- Well sealing – 5 projects
- Stream restoration – 2 projects
- Cover crop establishment – 200 acres

Anticipated 2017 Activities:

- Streambank stabilization (grant application submitted) – 3
- Cover crop establishment on 50 acres through EPA 319 grant - 4
- Cover crop side by side trials-4 counties
- Clean Water Partnership low interest loans for septic system replacements - 10
- Survey and Data Acquisition Fund administration
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

IMPAIRED WATERS AND TMDL

The HLWD WMP described the estimated annual efforts, contingent upon adequate funding, as:

- Monthly assistance for partners during project design and installation during the field season
- Monthly assistance for partners for education efforts as needed
- Two grant applications
- Twelve monthly project updates

Anticipated 2017 Activities:

- Community Outreach, Information Analysis, and Project Coordination as described in the WFDNR Watershed Project – Phase 2 Work Plan
- Twelve monthly project updates
- HLWD Administrator wages and benefits
- Watershed Coordinator wages and benefits

REGULATORY AND PERMIT PROGRAM

PERMITS AND NOTIFICATION

The HLWD WMP described the estimated annual aspects of the regulatory program, contingent upon adequate funding, as:

- Permits - 5
- Notifications - 75

Anticipated 2017 Activities:

- Permits - 5
- Notifications – 12
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

FLOOD DAMAGE REDUCTION PROGRAM

FLOOD DAMAGE REDUCTION PROGRAM

The HLWD WMP described the estimated annual projects, contingent upon adequate funding, as:

- Wetland restorations – 10 acres
- Alternative tile intakes – 10 intakes
- Sediment basins – 2 projects

Anticipated 2017 Activities:

- Research potential flood retention sites through PTMApp
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

PUBLIC DRAINAGE SYSTEM MANAGEMENT PROGRAM

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The HLWD WMP described the estimated annual details of the Public Drainage System Management Program, contingent upon adequate funding, as:

- Work with county drainage authorities, county engineers, and watershed landowners to:
 - Identify water quality improvement and water storage capacity projects within drainage systems
 - Develop project
 - Research project funding

Anticipated 2017 Activities:

- Continued efforts as required through Minnesota Statutes 103D and 103E for the Jackson County Jackson County Judicial Ditch (JD) #30, Jackson County JD #30 Branch A-1, Jackson County JD #30 Lateral to Branch A-1, Jackson County D #3, and Jackson County JD #19 Improvement Projects
- HLWD Administrator wages and benefits

CAPITAL IMPROVEMENT PROJECTS

The HLWD WMP described the estimated annual details of implementing capital improvement projects, contingent upon adequate funding, as:

- Project identification/location
- Landowner contact
- Preliminary engineering / feasibility studies
- Research project funding
- Project construction

Anticipated 2017 Activities:

- Research potential flood retention sites through PTMApp

- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

PROGRAMS

GENERAL OPERATIONS

The HLWD WMP described the estimated annual general operations as:

- Monthly lease payment
- Monthly office expenses
- Legal fees
- Annual audit
- HLWD Board of Managers per diem
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

Anticipated 2017 Activities:

- Continued implementation of the above-listed items
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

EDUCATION

The HLWD WMP described the estimated annual education efforts, contingent upon adequate funding, resident interest, pertinent topic and speaker availability, as:

- Two workshops
- One tour
- Twelve monthly newsletters
- One annual report

Anticipated 2017 Activities:

- Website
- Jackson County Water Plan Committee presentation
- Soil Health Research in Southwest Minnesota grant soil sample results meeting
- Annual report
- Water quality monitoring results to HLWD Board
- Annual update about HLWD activities to commissioners in Nobles, Jackson, Murray, and Cottonwood Counties
- Quarterly meetings with HLWD Advisory Committee
- Third Crop Phosphorus Reduction Effort cover crop termination, soil samples, infiltration measurements, and tillage transects
- Multiple partner cover crop field day
- Reporting as required in grant work plans
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

2017 Annual Budget

	General Operating Levy & Reserve Funds - 2017	Grants Loan Funds 2017	Survey and Data Acquisition Fund 2017
WATER QUALITY IMPROVEMENT PROGRAM*			
BMP Implementation Program			
BMP Cost-Share and Monitoring Program**	12,498.70	-	-
Seward 29 Dam Engineering	5,000.00	-	-
Allen Jensen - tile line project	750.00	-	-
John Hay - rock inlet (1)	300.00	-	-
Engineering	2,345.00	-	-
Travel	6,000.00	-	-
Vehicle Expense	3,000.00	-	-
Third Crop Phosphorus Reduction Effort	-	8,320.00	-
WFDNR Targeting and Prioritizing Endeavor	3,578.00	19,954.00	16,376.00
ArcMap	-	-	8,000.00
CWP Low Interest Loan Program	-	150,000.00	-
HLWD Cover Crop Research Plots	-	-	9,274.00
Watershed Management Plan Update	-	-	12,424.00
District Administrator	7,618.09	-	-
Watershed Technician	30,343.02	-	-
Summer Interns	5,600.00	-	-
Subtotal	77,032.81	178,274.00	46,074.00
Surface Water Monitoring**			
Monitoring Program - DNR Contract	11,380.00	-	-
Rushmore Industries	-	-	500.00
Supplies	-	-	700.00
Sample Analysis	9,274.00	-	2,726.00
District Administrator	1,692.90	-	-
Watershed Technician	7,200.04	-	-
Subtotal	29,546.94	-	3,926.00
Impaired Waters and TMDL			
Major Watershed Project	-	107,000.00	-
District Administrator	16,082.64	-	-
Watershed Technician	3,600.02	-	-
Subtotal	19,682.66	107,000.00	-
Flood Damage Reduction Program			
District Administrator	-	-	-
Watershed Technician	-	-	-
Subtotal	-	-	-
Regulatory and Permits			
District Administrator	846.45	-	-
Watershed Technician	1,542.87	-	-
Subtotal	2,389.32	-	-
Public Drainage System Management			
Jackson County Ditch #3	-	-	-
Jackson County JD #19	-	-	-
Jackson County JD #30	-	-	-
Jackson County JD #30 Branch A-1	-	-	-
Jackson County JD #30 Lateral to Branch A-1	-	-	-
Project 6	-	-	-
District Administrator	3,385.82	-	-
Watershed Technician	-	-	-
Subtotal	3,385.82	-	-

Capital Improvement Projects (Water Management District)			
District Administrator	-	-	-
Watershed Technician	-	-	-
Subtotal	-		
IMPLEMENTATION PROGRAM			
General Operations			
Advertising/Notices	1,500.00	-	-
Dues***	5,000.00	-	-
Insurance	4,600.00	-	-
Lease Payment	6,000.00	-	-
Legal Fees	2,500.00	-	-
Miscellaneous	500.00	-	-
Office Supplies	3,500.00	-	-
Office equipment - laptop computer	-	-	-
Postage	1,500.00	-	-
Professional Services	6,900.00	-	-
Telephone	1,500.00	-	-
Interest	-	-	-
Board of Managers	12,000.00	-	-
District Administrator	19,468.46	-	-
Watershed Technician	4,628.60	-	-
Subtotal	69,597.06	-	-
Education			
Annual Report	1,600.00	-	-
Conferences	5,000.00	-	-
Annual Newsletter	1,600.00	-	-
Third Crop Phosphorus Reduction Effort	-	828.40	-
MDA Soil Health Research Grant	-	8,754.80	-
Semi-annual Education Meetings	500.00	-	-
District Administrator	35,551.09	-	-
Watershed Technician	4,114.30	-	-
Subtotal	48,365.39	9,583.20	-
TOTAL	250,000.00	294,857.20	50,000.00

