

Heron Lake Watershed District

2019 Annual Plan and Budget



**WATERSHED
ASSISTANCE
THROUGH
EDUCATION &
RESOURCES**

H  **HERON LAKE WATERSHED DISTRICT**

Heron Lake Watershed District
1008 3rd Avenue, PO Box 345
Heron Lake, MN 56137
507-793-2462
www.hlwdonline.org

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Heron Lake Watershed District 2019 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, E. coli, chlorophyll A, conductivity, dissolved oxygen, temperature, and pH.

Anticipated 2019 Activities:

- Collect 20 stream samples on Jack Creek, Okabena Creek, and the Heron Lake Outlet
- Collect 30 lake samples on the Fulda Lakes, Graham Lakes, and Heron Lakes
- 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, dissolved oxygen, conductivity, 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 2019 Activities:

- Streambank stabilization (grant application submitted) – 1
- Cover crop side by side trials-4 counties
- Clean Water Partnership low interest loans for septic system replacements - 5

- 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 2019 Activities:

- Watershed Restoration and Protection Strategies Report review
- HLWD Administrator 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 2019 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 2019 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 2019 Activities:

- Continued efforts as required through Minnesota Statutes 103D and 103E for the Jackson County Ditch #3, Jackson County Judicial Ditch (JD) #19; Jackson County JD #14; and Jackson County JD #3 Improvement Projects; as well as HLWD Projects 4 and 84-4A Reestablishment of Records and the Project 6 Redetermination of Benefits
- 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 2019 Activities:

- Research potential project 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 2019 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 2019 Activities:

- Website
- Jackson County Water Plan Committee presentation
- Cover Crop Workshop
- 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
- Reporting as required in grant work plans
- HLWD Administrator wages and benefits
- HLWD Watershed Technician wages and benefits

2019 Annual Budget

	General Operating Levy & Reserve Funds - 2019	Grants/ Loan Funds 2019	Survey and Data Acquisition Fund 2019
WATER QUALITY IMPROVEMENT PROGRAM*			
BMP Implementation Program			
BMP Cost-Share and Monitoring Program**	-	-	-
Engineering	-	-	-
Travel	8,500.00	-	-
Vehicle Expense	1,600.00	-	-
Reinvest In Minnesota Easement	200.00	-	-
CWP Low Interest Loan Program	-	50,000.00	-
Toe WMA Conservation Partners Grant	-	21,661.00	-
County Assessment/Maintenance Fee	38.00	-	-
Watershed Management Plan Update	-	-	9,922.50
District Administrator	4,771.16	-	-
Watershed Technician	17,452.22	-	-
Summer Interns	3,000.00	-	-
Subtotal	35,561.38	71,661.00	9,922.50
Surface Water Monitoring**			
Monitoring Program - DNR Contract	11,380.00	-	-
Shipping and Ice	335.00	-	-
Sample Analysis	5,900.00	-	5,283.81
Supplies	250.00	-	-
District Administrator	1,590.39	-	-
Watershed Technician	11,842.58	-	-
Subtotal	31,297.97	-	5,283.81
Impaired Waters and TMDL			
District Administrator	10,337.51	-	-
Watershed Technician	-	-	-
Subtotal	10,337.51	-	-
Flood Damage Reduction Program			
District Administrator	-	-	-
Watershed Technician	-	-	-
Subtotal	-	-	-
Regulatory and Permits			
District Administrator	-	-	-
Watershed Technician	2,493.17	-	-
Subtotal	2,493.17	-	-
Public Drainage System Management			
Jackson County Ditch #3	-	-	-
Jackson County JD #3	-	-	-
Jackson County JD #14	-	-	-
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 4	-	-	-
Project 84-4A	-	-	-
District Administrator	14,313.48	-	-
Watershed Technician	-	-	-
Subtotal	14,313.48	-	-

Capital Improvement Projects (Water Management District)			
District Administrator	-	-	-
Watershed Technician	-	-	-
Subtotal	-		
IMPLEMENTATION PROGRAM			
General Operations			
Advertising/Notices	500.00	-	-
Dues***	6,200.00	-	-
Insurance	6,000.00	-	-
Lease Payment	6,600.00	-	-
Legal Fees	2,974.31	-	-
Miscellaneous	100.00	-	-
Office Supplies	3,600.00	-	-
Postage	1,200.00	-	-
Professional Services	7,500.00	-	-
Telephone	1,300.00	-	-
Board of Managers	20,000.00	-	-
District Administrator	11,132.71	-	-
Watershed Technician	623.29	-	-
Subtotal	67,730.31	-	-
Education			
Annual Report	1,600.00	-	-
Conferences	8,500.00	-	-
Annual Newsletter	1,600.00	-	-
MDA Soil Temperature & Moisture	-	10,148.00	-
HLWD Cover Crop Research Plots	9,274.00	-	-
PEBC Tour/Education Event	-	-	-
District Administrator	37,374.09	-	-
Watershed Technician	29,918.09	-	-
Subtotal	88,266.18	10,148.00	-
TOTAL	250,000.00	81,809.00	15,206.31

