



# Grant All-Detail Report

## Multipurpose Drainage Management 2019

**Grant Title** - South Heron Lake TMDL Implementation: Phase 2

**Grant ID** - C19-2122

**Organization** - Heron Lake WD

|                                |                    |                                 |                  |
|--------------------------------|--------------------|---------------------------------|------------------|
| <b>Original Awarded Amount</b> | <b>\$61,500.00</b> | <b>Grant Execution Date</b>     | <b>3/13/2019</b> |
| <b>Required Match Amount</b>   | \$15,375.00        | <b>Original Grant End Date</b>  | 12/31/2021       |
| <b>Required Match %</b>        | 25%                | <b>Grant Day To Day Contact</b> | Jan Voit         |
| <b>Current Awarded Amount</b>  | \$61,500.00        | <b>Current End Date</b>         | 12/31/2021       |

### Budget Summary

|                    | Budgeted            | Spent         | Balance Remaining*  |
|--------------------|---------------------|---------------|---------------------|
| Total Grant Amount | \$61,500.00         | \$0.00        | \$61,500.00         |
| Total Match Amount | \$127,479.95        | \$0.00        | \$127,479.95        |
| Total Other Funds  | \$0.00              | \$0.00        | \$0.00              |
| <b>Total</b>       | <b>\$188,979.95</b> | <b>\$0.00</b> | <b>\$188,979.95</b> |

*\*Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.*

### Budget Details

| Activity Name                                 | Activity Category            | Source Type         | Source Description                            | Budgeted    | Spent | Last Transaction Date | Matching Fund |
|---|------------------------------|---------------------|---|-------------|-------|-----------------------|---------------|
| Administration                                | Administration /Coordination | Local Fund          | HLWD Match                                    | \$979.95    |       |                       | Y             |
| CPS Code 638 Water and Sediment Control Basin | Conservation Drainage        | Current State Grant | South Heron Lake TMDL Implementation: Phase 2 | \$16,500.00 |       |                       | N             |
| CPS Code 638 Water and Sediment Control Basin | Conservation Drainage        | Landowner Fund      | Landowner Match                               | \$16,500.00 |       |                       | Y             |

| Activity Name                             | Activity Category            | Source Type         | Source Description                            | Budgeted    | Spent | Last Transaction Date | Matching Fund |
|---|------------------------------|---------------------|---|-------------|-------|-----------------------|---------------|
| Flowage Easement                          | Easements                    | Current State Grant | South Heron Lake TMDL Implementation: Phase 2 | \$0.00      |       |                       | N             |
| Flowage Easement                          | Easements                    | Landowner Fund      | Landowner Match                               | \$65,000.00 |       |                       | Y             |
| Storage and Treatment Wetland Restoration | Wetland Restoration/Creation | Current State Grant | South Heron Lake TMDL Implementation: Phase 2 | \$45,000.00 |       |                       | N             |
| Storage and Treatment Wetland Restoration | Wetland Restoration/Creation | Landowner Fund      | Landowner Match                               | \$45,000.00 |       |                       | Y             |

### Activity Details Summary

| Activity Details | Total Action Count | Total Activity Mapped | Proposed Size / Unit | Actual Size / Unit |
|------------------|--------------------|-----------------------|----------------------|--------------------|
|------------------|--------------------|-----------------------|----------------------|--------------------|

### Proposed Activity Indicators

| Activity Name  | Indicator Name              | Value & Units | Waterbody        | Calculation Tool           | Comments |
|--|-----------------------------|---------------|------------------|----------------------------|----------|
| <b>CPS Code 638 Water and Sediment Control Basin</b> | PHOSPHORUS (EST. REDUCTION) | 902 LBS/YR    | South Heron Lake | BWSR CALC (SHEET AND RILL) |          |
| <b>Storage and Treatment Wetland Restoration</b>     | PHOSPHORUS (EST. REDUCTION) | 1470 LBS/YR   | South Heron Lake | BWSR CALC (SHEET AND RILL) |          |
| <b>CPS Code 638 Water and Sediment Control Basin</b> | SEDIMENT (TSS)              | 392 TONS/YR   | South Heron Lake | BWSR CALC (SHEET AND RILL) |          |
| <b>Storage and Treatment Wetland Restoration</b>     | SEDIMENT (TSS)              | 1392 TONS/YR  | South Heron Lake | BWSR CALC (SHEET AND RILL) |          |

### Final Indicators Summary

| Indicator Name | Total Value | Unit |
|----------------|-------------|------|
|----------------|-------------|------|

## Grant Activity

| Grant Activity - Administration |  |
|---------------------------------|--|
| Description                     | <p>Time will be spent by the HLWD Administrator to perform administrative duties and reporting. Staff time is estimated at five hours per year for the three year grant period at a billing rate of \$65.33 per hour.</p> <p>Cost-share contracts will be implemented as outlined in the BWSR GAM and approved by the Board of Managers of the HLWD.</p> |
| Category                        | ADMINISTRATION/COORDINATION  |
| Start Date                      | <b>End Date</b>  |
| Has Rates and Hours?            | No   |
| Actual Results                  |  |

**Grant Activity - CPS Code 638 Water and Sediment Control Basin**

**Description**

This activity will pay for costs associated with construction of eleven WASCObS in the JD3 system of the South Heron Lake Watershed. The WASCObS will be designed to the NRCS CPS Code 638 practice standard.

Chuck Brandel, ISG will have job approval authority for each project's design and construction certification. He is a licensed engineer in Minnesota and also has Technical Service Provider Certification for Minnesota, which is needed to design to meet NRCS standards.

Implementation of the WASCObS will coincide with the drainage improvement project for JD 3: Preliminary Engineering Report approval, Final Engineering Report and approval, construction documents, final design documents, and project bidding. All of these steps will be approved by the Board of Managers of the HLWD. Landowner engagement will be done throughout the process.

Landowner funds will be used as match for design and construction. Payment for these projects will follow the BWSR GAM as outlined in the checklist for contract processing.

Contractors will be required to list similar projects and references prior to bidding and will not be eligible if they do not have experience with the practice. ISG requires the contractor to have insurance and to be bonded. A preconstruction meeting with the HLWD, landowners, contractor, ISG, and BWSR (if they would like) will be conducted to review the design and construction timelines. ISG will have trained inspectors on site to ensure that construction meets the plans and specification requirements of the design. The project engineer will certify the final design and provide a detailed as-built.

**Category**

CONSERVATION DRAINAGE

**Start Date**

**End Date**

**Has Rates and Hours?**

No

**Actual Results**

Calendar year 2019. Progress on Phase 2 of the South Heron Lake TMDL Implementation Project in the second half of 2019 included the Preliminary Hearing for Jackson County Judicial Ditch 3. At his public meeting, a public comment period was held. The Heron Lake Watershed District Board reviewed and approved the preliminary engineering plans for both the wetland and WASCObS. No funds billed to grant.

**Grant Activity - Flowage Easement**

**Description**

This activity will include costs associated with securing the flowage easement for the 10-acre wetland. The BWSR easement template will be used for the flowage easement. This easement will be protected in perpetuity.

Chuck Brandel, licensed professional engineer with ISG will create a preliminary design that shows the project boundary and review the plans with landowners. After securing landowner approval, final design and specifications will be done. An easement description will be drafted. The engineer will verify and present the information to the Board of Managers of the HLWD for approval. The engineer's job approval authority is available upon request.

The perpetual flowage easement will be secured and held by the HLWD. The easement will be reviewed and approved by BWSR prior to wetland construction. Operation and maintenance will be the responsibility of the HLWD. Costs associated with the easement will be funded through landowner match.

**Category**

EASEMENTS

**Start Date**

**End Date**

**Has Rates and Hours?**

No

**Actual Results**

**Grant Activity - Storage and Treatment Wetland Restoration**

**Description**

This activity will fund the creation of a 10-acre storage and treatment wetland, designed to the NRCS standard for a constructed wetland for treatment of agricultural storm water runoff. If tile is upgraded upstream of the practice, the practice design will be done to lower or closely match flows for the 2-year, 5-year, 10-year, and 25-year 24 hour rainfall events.

Chuck Brandel, ISG will have job approval authority for each project's design and construction certification. He is a licensed engineer in Minnesota and also has Technical Service Provider Certification for Minnesota, which is needed to design to meet NRCS standards.

The wetland restoration costs will be funded through grant dollars and landowner match.

Implementation of the wetland restoration will coincide with the drainage improvement project for JD 3: Preliminary Engineering Report approval, Final Engineering Report and approval, construction documents, final design documents, and project bidding. All of these steps will be approved by the Board of Managers of the HLWD. Landowner engagement will be done throughout the process.

Contractors will be required to list similar projects and references prior to bidding and will not be eligible if they do not have experience with the practice. ISG requires the contractor to have insurance and to be bonded. A preconstruction meeting with the HLWD, landowners, contractor, and ISG will be conducted to review the design and construction timelines. ISG will have trained inspectors on site to ensure that construction meets the plans and specification requirements of the design. The project engineer will certify the final design and provide a detailed as-built.

A perpetual flowage easement will be secured and held by the HLWD. Operation and maintenance will be the responsibility of the HLWD. Costs associated with the easement will be funded through landowner match.

**Category**

WETLAND RESTORATION/CREATION

**Start Date**

**End Date**

**Has Rates and Hours?**

No

**Actual Results**

Calendar year 2019. Progress on Phase 2 of the South Heron lake TMDL Implementation project in the second half of 2019 included the Preliminary Hearing for Jackson County Judicial Ditch 3. At this public meeting, a public comment period was held. The Heron Lake Watershed District Board reviewed and approved the preliminary engineering plans for both the wetland and WASCObS. No funds billed to grant.

## Grant Attachments

| Document Name                          | Document Type      | Description  |
|--|--------------------|--|
| <b>2019 Competitive Grant</b>          | Grant Agreement    | 2019 Competitive Grant - Heron Lake WD               |
| <b>2019 Competitive Grant EXECUTED</b> | Grant Agreement    | 2019 Competitive Grant - Heron Lake WD               |
| <b>All Details Report</b>              | Workflow Generated | Workflow Generated - All Details Report - 06/10/2019 |
| <b>All Details Report</b>              | Workflow Generated | Workflow Generated - All Details Report - 06/10/2019 |
| <b>All Details Report</b>              | Workflow Generated | Workflow Generated - All Details Report - 01/06/2020 |
| <b>All Details Report</b>              | Workflow Generated | Workflow Generated - All Details Report - 01/22/2020 |
| <b>Application</b>                     | Workflow Generated | Workflow Generated - Application - 08/30/2018        |
| <b>Application Budget Worksheet</b>    | Grant              | South Heron Lake TMDL Implementation: Phase 2        |
| <b>Project Area Map</b>                | Grant              | South Heron Lake TMDL Implementation: Phase 2        |
| <b>Signed Financial Report</b>         | Progress           | Progress Dated - 01/06/2020                          |
| <b>Work Plan</b>                       | Workflow Generated | Workflow Generated - Work Plan - 12/19/2018          |