# Grant All-Detail Report
## Projects and Practices 2018

**Grant Title** - Targeted Mississippi River Bank Stabilization Focused On Bioengineering – Round 2  
**Grant ID** - C18-2864  
**Organization** - Anoka CD

<table>
<thead>
<tr>
<th></th>
<th>Budgeted</th>
<th>Spent</th>
<th>Balance Remaining*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Grant Amount</td>
<td>$236,000.00</td>
<td>$5,068.40</td>
<td>$230,931.60</td>
</tr>
<tr>
<td>Total Match Amount</td>
<td>$59,000.00</td>
<td>$0.00</td>
<td>$59,000.00</td>
</tr>
<tr>
<td>Total Other Funds</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
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<tr>
<td>Total</td>
<td>$295,000.00</td>
<td>$5,068.40</td>
<td>$289,931.60</td>
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</tbody>
</table>

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

## Budget Details

<table>
<thead>
<tr>
<th>Activity Name</th>
<th>Activity Category</th>
<th>Source Type</th>
<th>Source Description</th>
<th>Budgeted</th>
<th>Spent</th>
<th>Last Transaction Date</th>
<th>Matching Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant Administration and Reporting</td>
<td>Administration/Coordination</td>
<td>Current State Grant</td>
<td>Targeted Mississippi River Bank Stabilization Focused On Bio..</td>
<td>$5,000.00</td>
<td>$85.71</td>
<td>9/30/2018</td>
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<tr>
<td>Mississippi Riverbank Stabilization</td>
<td>Streambank or Shoreline Protection</td>
<td>Current State Grant</td>
<td>Targeted Mississippi River Bank Stabilization Focused On Bio..</td>
<td>$141,000.00</td>
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<td></td>
<td>N</td>
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<tr>
<td>Activity Name</td>
<td>Activity Category</td>
<td>Source Type</td>
<td>Source Description</td>
<td>Budgeted</td>
<td>Spent</td>
<td>Last Transaction Date</td>
<td>Matching Fund</td>
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<tr>
<td>---------------</td>
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<td>----------</td>
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</tr>
<tr>
<td>Mississippi Riverbank Stabilization Construction</td>
<td>Streambank or Shoreline Protection</td>
<td>Landowner Fund</td>
<td>Landowner Match</td>
<td>$59,000.00</td>
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<td>Y</td>
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<tr>
<td>Mississippi Riverbank Stabilization Project Development</td>
<td>Project Development</td>
<td>Current State Grant</td>
<td>Targeted Mississippi River Bank Stabilization Focused On Bio..</td>
<td>$15,000.00</td>
<td>$4,982.69</td>
<td>12/31/2018</td>
<td>N</td>
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<tr>
<td>Technical and Engineering Assistance for Mississippi Riverbank Stabilization</td>
<td>Technical/Engineering Assistance</td>
<td>Current State Grant</td>
<td>Targeted Mississippi River Bank Stabilization Focused On Bio..</td>
<td>$75,000.00</td>
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<td></td>
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</table>

Activity Details Summary

<table>
<thead>
<tr>
<th>Activity Details</th>
<th>Total Action Count</th>
<th>Total Activity Mapped</th>
<th>Proposed Size / Unit</th>
<th>Actual Size / Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>580 - Streambank and Shoreline Protection</td>
<td>3</td>
<td></td>
<td>500 LINEAR FEET</td>
<td>LINEAR FEET</td>
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</tbody>
</table>

Proposed Activity Indicators

<table>
<thead>
<tr>
<th>Activity Name</th>
<th>Indicator Name</th>
<th>Value &amp; Units</th>
<th>Waterbody</th>
<th>Calculation Tool</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mississippi Riverbank Stabilization Construction</td>
<td>PHOSPHORUS (EST. REDUCTION)</td>
<td>100 LBS/YR</td>
<td>Mississippi River and Lake Pepin</td>
<td>BWSR CALC (STREAM &amp; DITCH STABILIZATION)</td>
<td></td>
</tr>
<tr>
<td>Mississippi Riverbank Stabilization Construction</td>
<td>SEDIMENT (TSS)</td>
<td>100 TONS/YR</td>
<td>Mississippi River and Lake Pepin</td>
<td>Other</td>
<td>Wisconsin NRCS Direct Volume method</td>
</tr>
</tbody>
</table>

Final Indicators Summary

<table>
<thead>
<tr>
<th>Indicator Name</th>
<th>Total Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEDIMENT (TSS)</td>
<td>100.00</td>
<td>TONS/YR</td>
</tr>
<tr>
<td>PHOSPHORUS (EST. REDUCTION)</td>
<td>100.00</td>
<td>LBS/YR</td>
</tr>
</tbody>
</table>
# Grant Activity

## Grant Activity - Grant Administration and Reporting

| Description | Staff time for grant administration and reporting. Tasks include annual eLINK reporting (e.g. activity progress and budget updates), coordination of expense reports and payments, and project financial management.  

Credentials of Anticipated Staff Involved:
Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.

Kathy Berkness – Office Admin. – 30+ yrs managing finances, administering programs, completing progress and final project reports, website development and management, and general office administration |
| Category | ADMINISTRATION/COORDINATION |
| Start Date | 1-Jan-18 |
| Has Rates and Hours? | Yes |
| Actual Results | 2018 Time spent on administration and reporting  
2018 1st and 2nd Qtr Budget management and bookkeeping. 2018 3rd and 4th Qtr Budget management, bookkeeping and reporting. |
Grant Activity - Mississippi Riverbank Stabilization Construction

| Description | Project construction costs for riverbank stabilization including all necessary labor, materials, and fees including but not limited to; permitting, mobilization, clearing and grubbing, ingress and egress, grading, excavation and disposal, aggregate/media, temporary erosion and sediment control, plant materials, site restoration, and labor. Project construction will be completed by qualified contractors hired by the landowners with oversight by ACD staff. An example landowner agreement is attached that addresses partner responsibilities for grant administration, project design engineering, construction bidding and contract management (inspections, payments, as-built verifications), cost overruns, long term project operations and maintenance, 150% state payback liability, and property access and assurances. Landowner agreements will be attached when fully executed. |
| Category | STREAMBANK OR SHORELINE PROTECTION |
| Start Date | End Date |
| Has Rates and Hours? | No |

### Actual Results

#### Activity Action - Streambank Stabilization

| Practice | 580 - Streambank and Shoreline Protection | Count of Activities | 3 |
| Description |  |
| Proposed Size / Units | 500.00 LINEAR FEET | Lifespan | 10 Years |
| Actual Size/Units | LINEAR FEET | Installed Date |  |
| Mapped Activities | No |

#### Final Indicator for Streambank Stabilization

| Indicator Name | PHOSPHORUS (EST. REDUCTION) | Value | 100 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) LBS/yr | Calculation Tool | BWSR CALC (STREAM & DITCH STABILIZATION) |
| Waterbody | Mississippi River |

<p>| Indicator Name | SEDIMENT (TSS) | Value | 100 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) TONS/yr | Calculation Tool | Other |</p>
<table>
<thead>
<tr>
<th>Waterbody</th>
<th>Mississippi River</th>
</tr>
</thead>
</table>


**Grant Activity - Mississippi Riverbank Stabilization Project Development**

| Description | Project promotion to riparian owners, project ranking based on cost-benefit analysis and performance-based criteria; completion of operations, maintenance, and access agreements with property owners; coordination meetings with all partners (i.e. ACD, project engineer, watershed management entities, and participating cities) to discuss preliminary information gathering, concept designs, project schedule, and progress updates. Cities and watershed management entities will be engaged in the project review and permitting elements of the grant to streamline project approvals and develop broad-based support to continue similar efforts to address the erosion problems. Project purpose and progress will also be highlighted in newspaper articles, emails to elected officials, website content, and written project profiles. This project will also directly involve private landowners as project partners. Outreach efforts to identify willing partners will include targeted mailings, site visits, and informational meetings. Each of these efforts affords unique opportunities to engage the public and provide information regarding the benefits and long-term impacts of the project.

Credentials of Anticipated Staff Involved:

- Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis.

- Mitch Haustein – Stormwater and Shoreland Spec. – BA Bio., MS Ecol., Evol. and Behavior with 12 yrs in monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, and BMP modeling, planning and construction management.

- Aaron Diehl – Cons. Spec. – BA Env. Bio., MS Env Sci, MBA and 14 yrs in wetland delineation, restoration, monitoring, and permitting; native landscape identification and restoration; rare plant species surveys; GIS analysis; and, project management.

<table>
<thead>
<tr>
<th>Category</th>
<th>PROJECT DEVELOPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Start Date</td>
<td>1-Jan-18</td>
</tr>
<tr>
<td>Has Rates and Hours?</td>
<td>Yes</td>
</tr>
<tr>
<td>Actual Results</td>
<td>2018 1st and 2nd Qtr - No activity. 2018 Q3 and Q4 - Targeted outreach to landowners at properties with severe and very severe erosion as identified in inventory. Site visits with interested landowners to view erosion severity and discuss potential</td>
</tr>
</tbody>
</table>
participation in grant. Engaged WSB as project engineer and solicited cost estimate for engineering services.

| Grant Activity - Technical and Engineering Assistance for Mississippi Riverbank Stabilization |
| Description | Engineered construction plans including site assessments and surveys, permit applications and regulatory coordination, bidding, construction management, and final project inspection. |
| | Up to five properties will be selected for stabilization on the Mississippi River in Anoka County. This project will stabilize approximately 500 linear feet of Mississippi River bank using bioengineering approaches wherever possible and will deliver reductions of up to 2,000,000 lbs-TSS and 1,000 lbs-TP over the ten-year lifespan of the projects. |
| Credentials of Anticipated Staff Involved: |  |
| Chris Lord – Dist. Mgr. – BS Nat. Res. & Env. Sci. with 25+ yrs in project and grant management, workload and budget planning, contract management, BMP design and installation, resource monitoring and inventory, data analysis. |  |
| Mitch Haustein – Cons. Spec. – BA Bio., MS Ecol., Evol. and Behavior with 12 yrs in monitoring plan development and implementation, GIS intensive inventories, watershed and site analysis, and BMP modeling, planning and construction management. |  |
| Aaron Diehl – Cons. Spec. – BA Env. Bio., MS Env Sci, MBA and 14 yrs in wetland delineation, restoration, monitoring, and permitting; native landscape identification and restoration; rare plant species surveys; GIS analysis; and, project management. |  |
| Professional engineering firm – Firm will be selected with demonstrated expertise in streambank stabilization utilizing bioengineering techniques. |  |

| Category | TECHNICAL/ENGINEERING ASSISTANCE |
| Start Date | End Date |
| Has Rates and Hours? | Yes |
| Actual Results |  |
# Grant Attachments

<table>
<thead>
<tr>
<th>Document Name</th>
<th>Document Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018 Competitive Grant</td>
<td>Grant Agreement</td>
<td>2018 Competitive Grant - Anoka CD</td>
</tr>
<tr>
<td>2018 Competitive Grant executed</td>
<td>Grant Agreement</td>
<td>2018 Competitive Grant - Anoka CD</td>
</tr>
<tr>
<td>All Details Report</td>
<td>Workflow Generated</td>
<td>Workflow Generated - All Details Report - 01/24/2019</td>
</tr>
<tr>
<td>Application</td>
<td>Workflow Generated</td>
<td>Workflow Generated - Application - 08/09/2017</td>
</tr>
<tr>
<td>Example Landowner Contract</td>
<td>Grant</td>
<td>Targeted Mississippi River Bank Stabilization Focused On Bioengineering – Round 2</td>
</tr>
<tr>
<td>Targeted Mississippi River Bank Stabilization Focused On Bioengineering - Round 2 Application Image</td>
<td>Grant</td>
<td>Targeted Mississippi River Bank Stabilization Focused On Bioengineering – Round 2</td>
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<tr>
<td>Work Plan</td>
<td>Workflow Generated</td>
<td>Workflow Generated - Work Plan - 12/20/2017</td>
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<tr>
<td>grantmap_19144_2017-08-09_11-13-52-AM.jpg</td>
<td>Grant</td>
<td>Targeted Mississippi River Bank Stabilization Focused On Bioengineering – Round 2</td>
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