

**Grant All-Detail Report**

**Projects and Practices 2020**

**Grant Title -** City of Cromwell Stormwater Improvement Project

**Grant ID** - C20-5793

**Organization -** Carlton SWCD

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| Original Awarded Amount | $152,750.00 | Grant Execution Date | 2/18/2020 |
| Required Match Amount | $38,187.50 | **Original Grant End Date** | 12/31/2022 |
| Required Match % | 25% | **Grant Day To Day Contact** | Melanie Bomier |
| Current Awarded Amount | $152,750.00 | **Current End Date** | 12/31/2023 |

## Budget Summary

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| --- | --- | --- | --- |
|  | Budgeted | Spent | Balance Remaining\* |
| Total Grant Amount | $152,750.00 | $124,618.57 | $28,131.43 |
| Total Match Amount | $38,188.00 | $12,873.72 | $25,314.28 |
| Total Other Funds | $0.00 | $0.00 | $0.00 |
| **Total** | **$190,938.00** | **$137,492.29** | **$53,445.71** |

*\*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 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Big Sandy Area Lakes Watershed Management Project group Outreach & Education  | Education/Information | Current State Grant | City of Cromwell Stormwater Improvement Project | $5,000.00  | $1,661.69  | 4/29/2022 | N |
| City of Cromwell Stormwater Grand Opening  | Education/Information | Current State Grant | City of Cromwell Stormwater Improvement Project | $8,000.00  | $59.10  | 12/31/2021 | N |
| City of Cromwell Stormwater Implementation  | Urban Stormwater Management Practices | Current State Grant | City of Cromwell Stormwater Improvement Project | $110,000.00  | $91,999.00  | 11/14/2022 | N |
| City of Cromwell Stormwater Implementation  | Urban Stormwater Management Practices | Local Fund | City of Cromwell Stormwater Improvement Project | $38,188.00  | $12,873.72  | 4/29/2022 | Y |
| Grant Admin  | Administration/Coordination | Current State Grant | City of Cromwell Stormwater Improvement Project | $19,750.00  | $21,340.46  | 12/31/2022 | N |
| Tamarack Watershed Targeted Lakeshore BMPs  | Urban Stormwater Management Practices | Current State Grant | City of Cromwell Stormwater Improvement Project | $10,000.00  | $9,558.32  | 10/13/2022 | N |

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## Activity Details Summary

| Activity Details | Total Action Count  | Total Activity Mapped  | Proposed Size / Unit | Actual Size / Unit |
| --- | --- | --- | --- | --- |
|  412 - Grassed Waterway and Swales | 1 | 1 | 1580 SQUARE FEET | 1580 SQUARE FEET |
|  342 - Critical Area Planting | 1 | 1 | 30 LINEAR FEET | 30 LINEAR FEET |
|  412 - Grassed Waterway and Swales | 2 |  | 80 LINEAR FEET |  LINEAR FEET |
|  712M - Bioretention Basin | 4 |  | 0.02 AC |  AC |
|  342 - Critical Area Planting | 25 | 1 | 25 LINEAR FEET | 25 LINEAR FEET |

**Proposed Activity Indicators**

| Activity Name | **Indicator Name** | **Value & Units** | **Waterbody** | **Calculation Tool** | **Comments** |
| --- | --- | --- | --- | --- | --- |
| City of Cromwell Stormwater Implementation  | VOLUME REDUCED (ACRE-FEET/YEAR) | 1.175 ACRE-FEET/YR | Tamarack River | MIDS |  |
| City of Cromwell Stormwater Implementation  | PHOSPHORUS (EST. REDUCTION) | 0.558 LBS/YR | Tamarack River | MIDS |  |
| Tamarack Watershed Targeted Lakeshore BMPs  | PHOSPHORUS (EST. REDUCTION) | 20.89 LBS/YR | Tamarack Watershed | Other | Calculated based on previous pollutant reductions from 319 grant |
| City of Cromwell Stormwater Implementation  | SOIL (EST. SAVINGS) | 0.1771 TONS/YR | Tamarack River | MIDS |  |
| Tamarack Watershed Targeted Lakeshore BMPs  | SOIL (EST. SAVINGS) | 20.19 TONS/YR | Tamarack Watershed | Other | Calculated based on previous pollutant reductions from 319 grant |

## Final Indicators Summary

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| Indicator Name | Total Value  | Unit  |
| SEDIMENT (TSS) | 0.04 | TONS/YR |
| PHOSPHORUS (EST. REDUCTION) | 1.25 | LBS/YR |

## Grant Activity

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| **Grant Activity - Big Sandy Area Lakes Watershed Management Project group Outreach & Education**  |
| Description | Provide watershed residents with information on water quality information and BMPs though newsletters and community event outreach. This work will be lead by the engaged Big Sandy Area Lakes Watershed Management Project group and coordinated by the Carlton SWCD. Outreach might include tours, mailings, newsletters or door knocking materials.  |
| Category | EDUCATION/INFORMATION |
| Start Date | 1-Jul-20 | **End Date** |  |
| Has Rates and Hours? | No  |
| Actual Results | The Big Sandy Group helped develop a mailing to targeted lakeshore owners. Mailing was sent in August/September 2020 and resulted in 5 site visits. Funding used to help fund a watershed wide newsletter in 2021 and 2022.  |

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| **Grant Activity - City of Cromwell Stormwater Grand Opening**  |
| Description | City of Cromwell Grand Opening Celebration & Tour Hosted by the Big Sandy Area Lakes Watershed Management Project group along with Do it Yourself BMP Workshops. SWCD staff will lead the workshops. |
| Category | EDUCATION/INFORMATION |
| Start Date | 1-Mar-21 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | Technician started to plan a rain garden workshop for 2023. The grand opening is planned for summer 2023.  |

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| **Grant Activity - City of Cromwell Stormwater Implementation**  |
| Description | City of Cromwell Stormwater Engineering Expenses (Final Design & Construction Inspection) and Construction Costs. Design and construction will include 4 rain gardens and 2 swale ditch treatment areas in the City of Cromwell park. Engineering will be completed by JPJ Engineering, INC under John D. Mattoenen, P.E. with planting assistance from Alyssa Alness (Carlton SWCD) using the Minnesota Stormwater Manual. Preliminary designs were completed for the project by JPJ Engineering, and several planning meetings for the project have been held by the City of Cromwell and various user groups. The preliminary designs led to development of a cost estimate. Final designs and permitting would be completed after the grant award. Permits will include wetland and stormwater. The BSALWMP group voted to support this grant application at their August 2019 meeting. |
| Category | URBAN STORMWATER MANAGEMENT PRACTICES |
| Start Date | 5-Jan-21 | **End Date** |  |
| Has Rates and Hours? | No  |
| Actual Results | Final design of the stormwater project was started in 2021 after the City of Cromwell was awarded a DNR grant for park improvements. Substantial construction of the rain garden project was completed in October 2022. Final planting will occur in spring/summer 2023.  |

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| Activity Action - Cromwell Park Stormwater  |
| Practice | 712M - Bioretention Basin | **Count of Activities** | 4 |
| Description | Rain garden to treat park runoff |
| Proposed Size / Units | 0.02 AC | **Lifespan** | 10 Years |
| Actual Size/Units |  AC | **Installed Date** |  |
| Mapped Activities | No | **Technical Assistance Provider** |  |

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| Activity Action - Cromwell Park Stormwater  |
| Practice | 412 - Grassed Waterway and Swales | **Count of Activities** | 2 |
| Description | Swale ditch treatment for Cromwell Park runoff |
| Proposed Size / Units | 80.00 LINEAR FEET | **Lifespan** | 10 Years |
| Actual Size/Units |  LINEAR FEET | **Installed Date** |  |
| Mapped Activities | No | **Technical Assistance Provider** |  |

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| **Grant Activity - Grant Admin**  |
| Description | Time for the Water Resources Technician to manage the grant, attend monthly Big Sandy Area Lakes Watershed Management Project Group meetings and coordinate project work with consulting engineer, SWCD staff and volunteers. This will include time to plan events, produce materials and coordinate activities. Some hours may also be used for support from Aitkin SWCD. |
| Category | ADMINISTRATION/COORDINATION |
| Start Date | 1-Mar-20 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | The Water Resources Manager helped coordinated Big Sandy Group and cost-share projects, and worked with the City of Cromwell on planning the Pavilion project. Participated in meetings with engineers and the city and checked on construction. Also helped coordinate Big Sandy Area Lakes meetings and newsletters.  |

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| **Grant Activity - Tamarack Watershed Targeted Lakeshore BMPs**  |
| Description | These funds will provide cost share for Tamarack Watershed land owners to design and install phosphorous and soil reduction BMPs on their property. The Big Sandy Area Lakes Watershed Management Project group will approve projects for implementation. Design will be completed by Alyssa Alness (Carlton SWCD) using the Minnesota Stormwater Manual. Copies of SWCD staff JAA is available upon request. Land owner agreements will follow the cost share manual. Examples of projects may include rain gardens, native plantings, shoreland stabilization among others. |
| Category | URBAN STORMWATER MANAGEMENT PRACTICES |
| Start Date | 1-Jun-20 | **End Date** |  |
| Has Rates and Hours? | Yes  |
| Actual Results | Carlton SWCD Conservation Technician made site visits with 5 lakeshore owners and assisted with design work for one site on South Island Lake. Construction is planned for 2021. One shoreline stabilization project was constructed in 2021. Construction of 2 additional projects was completed in 2022.  |

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| Activity Action - Hedin Lower Island Lake Project  |
| Practice | 412 - Grassed Waterway and Swales | **Count of Activities** | 1 |
| Description |  |
| Proposed Size / Units | 1,580.00 SQUARE FEET | **Lifespan** | 10 Years |
| Actual Size/Units | 1,580.00 SQUARE FEET | **Installed Date** | 7-Jun-21 |
| Mapped Activities | 1 Polygon(s) | **Technical Assistance Provider** | TSA |

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| **Final Indicator for Hedin Lower Island Lake Project** |
| **Indicator Name**  | PHOSPHORUS (EST. REDUCTION) | **Value** | 0.37 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | BWSR CALC (STREAM & DITCH STABILIZATION) |
| **Waterbody** | Lower Island Lake |
| **Final Indicator for Hedin Lower Island Lake Project** |
| **Indicator Name**  | SEDIMENT (TSS) | **Value** | .00877 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | BWSR CALC (STREAM & DITCH STABILIZATION) |
| **Waterbody** | Lower Island Lake |

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| Activity Action - Solheid Shoreland Protection  |
| Practice | 342 - Critical Area Planting | **Count of Activities** | 25 |
| Description |  |
| Proposed Size / Units | 25.00 LINEAR FEET | **Lifespan** | 10 Years |
| Actual Size/Units | 25.00 LINEAR FEET | **Installed Date** | 1-Aug-22 |
| Mapped Activities | 1 Polygon(s) | **Technical Assistance Provider** | SWCD |

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| **Final Indicator for Solheid Shoreland Protection** |
| **Indicator Name**  | PHOSPHORUS (EST. REDUCTION) | **Value** | 0.35 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | BWSR CALC (SHEET AND RILL) |
| **Waterbody** | Eagle Lake |
| **Final Indicator for Solheid Shoreland Protection** |
| **Indicator Name**  | SEDIMENT (TSS) | **Value** | 0.01 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | BWSR CALC (SHEET AND RILL) |
| **Waterbody** | Eagle Lake |

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| Activity Action - Roe Shoreline Protection  |
| Practice | 342 - Critical Area Planting | **Count of Activities** | 1 |
| Description |  |
| Proposed Size / Units | 30.00 LINEAR FEET | **Lifespan** | 10 Years |
| Actual Size/Units | 30.00 LINEAR FEET | **Installed Date** | 28-Sep-22 |
| Mapped Activities | 1 Polygon(s) | **Technical Assistance Provider** | SWCD |

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| **Final Indicator for Roe Shoreline Protection** |
| **Indicator Name**  | PHOSPHORUS (EST. REDUCTION) | **Value** | 0.53 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | **Calculation Tool** | BWSR CALC (SHEET AND RILL) |
| **Waterbody** | Eagle Lake |
| **Final Indicator for Roe Shoreline Protection** |
| **Indicator Name**  | SEDIMENT (TSS) | **Value** | 0.02 |
| **Indicator Subcategory/Units** | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | **Calculation Tool** | BWSR CALC (SHEET AND RILL) |
| **Waterbody** | Eagle |

## Grant Attachments

| Document Name | Document Type | Description |
| --- | --- | --- |
| 2020 Competitive Amendment EXECUTED | Grant Agreement Amendment |  |
| 2020 Competitive Grant | Grant Agreement | 2020 Competitive Grant - Carlton SWCD |
| 2020 Competitive Grant EXECUTED | Grant Agreement | 2020 Competitive Grant - Carlton SWCD |
| 2021 Watershed Educational Newsletter | Grant | City of Cromwell Stormwater Improvement Project |
| 2022 Watershed Newsletter Invoice | Grant | City of Cromwell Stormwater Improvement Project |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 04/13/2021 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/14/2021 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 12/02/2022 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 11/14/2022 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 12/02/2022 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/10/2023 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/28/2022 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/21/2022 |
| Amended Changes Hedin | Grant | City of Cromwell Stormwater Improvement Project |
| Application | Workflow Generated | Workflow Generated - Application - 08/30/2019 |
| City of Cromwell Stormwater Project Map | Grant | City of Cromwell Stormwater Improvement Project |
| City of Cromwell Voucher | Grant | City of Cromwell Stormwater Improvement Project |
| Cromwell Lakes Targeted Mailing Invoice | Grant | City of Cromwell Stormwater Improvement Project |
| Cromwell Stormwater Invoice Nov 2022 | Grant | City of Cromwell Stormwater Improvement Project |
| Grant Amendment  | Grant Agreement Amendment |  |
| Hedin Project Contract | Grant | City of Cromwell Stormwater Improvement Project |
| Hedin Project Details | Grant | City of Cromwell Stormwater Improvement Project |
| Hedin Voucher | Grant | City of Cromwell Stormwater Improvement Project |
| O&M Hedin | Grant | City of Cromwell Stormwater Improvement Project |
| Roe Voucher | Grant | City of Cromwell Stormwater Improvement Project |
| SignedContractCityofCromwell2021 | Grant | City of Cromwell Stormwater Improvement Project |
| SignedFinancialReportNOv2022 | Grant | City of Cromwell Stormwater Improvement Project |
| Solheid Voucher | Grant | City of Cromwell Stormwater Improvement Project |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 01/22/2020 |
| amendment request | Grant | City of Cromwell Stormwater Improvement Project |
| grantmap\_24371\_2019-08-28\_10-26-24-AM.jpg | Grant | City of Cromwell Stormwater Improvement Project |