



Grant All-Detail Report Targeted Watershed 2014

Grant Title - 2014 - Targeted Watershed (Rice Creek WD)

Grant ID - P14-2270

Organization - Rice Creek WD

| | | | |
|-------------------------|-----------------------|--------------------------|-------------|
| Original Awarded Amount | \$3,000,000.00 | Grant Execution Date | |
| Required Match Amount | \$750,000.00 | Original Grant End Date | 12/31/2018 |
| Required Match % | 25% | Grant Day To Day Contact | Kyle Axtell |
| Current Awarded Amount | \$3,000,000.00 | Current End Date | 12/31/2018 |

Budget Summary

| | Budgeted | Spent | Balance Remaining* |
|--------------------|-----------------------|-----------------------|----------------------|
| Total Grant Amount | \$3,000,000.00 | \$3,000,000.00 | \$0.00 |
| Total Match Amount | \$2,000,000.00 | \$2,201,977.93 | \$-201,977.93 |
| Total Other Funds | \$0.00 | \$0.00 | \$0.00 |
| Total | \$5,000,000.00 | \$5,201,977.93 | \$-201,977.93 |

*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 |
|--------------------------------|---------------------------------------|---------------------|---|----------------|----------------|-----------------------|---------------|
| Construction (Carp Management) | Special Projects | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$200,000.00 | \$200,000.00 | 9/26/2018 | N |
| Construction (Carp Management) | Special Projects | Local Fund | RCWD (Cash) | \$125,000.00 | \$56,240.15 | 11/29/2018 | Y |
| Construction (Hansen Park) | Urban Stormwater Management Practices | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$1,100,000.00 | \$1,100,000.00 | 4/26/2017 | N |

| Activity Name | Activity Category | Source Type | Source Description | Budgeted | Spent | Last Transaction Date | Matching Fund |
|--|---------------------------------------|---------------------|---|----------------|----------------|-----------------------|---------------|
| Construction (Hansen Park) | Urban Stormwater Management Practices | Local Fund | RCWD (Cash) | \$1,100,000.00 | \$1,063,566.32 | 12/12/2018 | Y |
| Construction (Middle Rice Creek) | Streambank or Shoreline Protection | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$470,000.00 | \$467,009.53 | 12/12/2018 | N |
| Construction (Middle Rice Creek) | Streambank or Shoreline Protection | Local Fund | RCWD (Cash) | \$250,000.00 | | | Y |
| Construction (Mirror Pond) | Urban Stormwater Management Practices | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$500,000.00 | \$500,000.00 | 6/28/2017 | N |
| Construction (Mirror Pond) | Urban Stormwater Management Practices | Local Fund | RCWD (Cash) | \$175,000.00 | \$236,525.79 | 12/12/2018 | Y |
| Design & Engineering (Carp Management) | Technical/Engineering Assistance | Local Fund | RCWD (Cash) | \$20,000.00 | \$11,932.60 | 12/26/2018 | Y |
| Design & Engineering (Hansen Park) | Technical/Engineering Assistance | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$400,000.00 | \$400,000.00 | 10/26/2016 | N |
| Design & Engineering (Hansen Park) | Technical/Engineering Assistance | Local Fund | RCWD (Cash) | \$0.00 | \$233,255.53 | 12/26/2018 | Y |
| Design & Engineering (Middle Rice Creek) | Technical/Engineering Assistance | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$130,000.00 | \$136,475.16 | 3/28/2018 | N |
| Design & Engineering (Middle Rice Creek) | Technical/Engineering Assistance | Local Fund | RCWD (Cash) | \$0.00 | \$2,278.69 | 11/28/2018 | Y |

| Activity Name | Activity Category | Source Type | Source Description | Budgeted | Spent | Last Transaction Date | Matching Fund |
|---|----------------------------------|---------------------|---|--------------|--------------|-----------------------|---------------|
| Design & Engineering (Mirror Pond) | Technical/Engineering Assistance | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$120,000.00 | \$120,000.00 | 9/28/2016 | N |
| Design & Engineering (Mirror Pond) | Technical/Engineering Assistance | Local Fund | RCWD (Cash) | \$0.00 | \$200,492.07 | 12/12/2018 | Y |
| Grant Administration | Administration /Coordination | Local Fund | RCWD Staff (In-Kind) | \$16,800.00 | \$12,923.88 | 12/31/2018 | Y |
| Project Development | Project Development | Local Fund | RCWD Staff (In-Kind) | \$233,200.00 | \$219,758.99 | 12/31/2018 | Y |
| Project Development (Carp Management) | Project Development | Local Fund | RCWD (Cash) | \$80,000.00 | \$152,462.31 | 12/26/2018 | Y |
| Project Development (Hanson Park) | Project Development | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$40,000.00 | \$40,000.00 | 2/24/2016 | N |
| Project Development (Hanson Park) | Project Development | Local Fund | RCWD (Cash) | \$0.00 | \$11,472.31 | 7/24/2018 | Y |
| Project Development (Middle Rice Creek) | Project Development | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$20,000.00 | \$16,515.31 | 8/22/2018 | N |
| Project Development (Middle Rice Creek) | Project Development | Local Fund | RCWD (Cash) | \$0.00 | \$200.94 | 12/26/2018 | Y |
| Project Development (Mirror Pond) | Project Development | Current State Grant | 2014 - Targeted Watershed (Rice Creek WD) | \$20,000.00 | \$20,000.00 | 3/23/2016 | N |
| Project Development (Mirror Pond) | Project Development | Local Fund | RCWD (Cash) | \$0.00 | \$868.35 | 10/26/2016 | Y |

Activity Details Summary

| Activity Details | Total Action Count | Total Activity Mapped | Proposed Size / Unit | Actual Size / Unit |
|------------------------------------|--------------------|-----------------------|----------------------|--------------------|
| 712M - Bioretention Basin | 1 | 1 | 1 COUNT | 1 COUNT |
| 105M - Publications | 1 | | 1 COUNT | 1 COUNT |
| 393 - Filter Strip | 1 | 1 | 0 AC | 1.5 AC |
| 584 - Stream Channel Stabilization | 1 | 1 | 5600 LINEAR FEET | 5400 LINEAR FEET |
| 164M - Pond maintenance | 2 | 2 | 1 COUNT | 1 COUNT |

Proposed Activity Indicators

| Activity Name | Indicator Name | Value & Units | Waterbody | Calculation Tool | Comments |
|---------------|----------------|---------------|-----------|------------------|----------|
|---------------|----------------|---------------|-----------|------------------|----------|

Final Indicators Summary

| Indicator Name | Total Value | Unit |
|------------------------------------|-------------|---------|
| SEDIMENT (TSS) | 107.02 | TONS/YR |
| PHOSPHORUS (EST. REDUCTION) | 565.50 | LBS/YR |

Grant Activity

Grant Activity - Construction (Carp Management)

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>This activity covers the construction of all project components related to the management of common carp population and reproduction. The specific projects to be implemented will be determined after a comprehensive carp management plan is developed for the system.</p> <p>Preliminarily, the RCWD has generally proposed BMPs that may include, but are not limited to, (1) carp barriers, (2) lake aeration, and (3) adult carp removal. Specific locations and indicators will be determined and reported in eLINK at a later date.</p> <p>As the RCWD completes the management plan process with its project partners, one or more of these components may be modified, removed or even replaced with additional features based on technical feasibility, permitting requirements, access requirements and funding availability.</p> <p>Total construction funding for RCWD carp management is not planned to exceed \$325,000 during the grant project timeline.</p> <p>The RCWD will develop specific and unique maintenance assurance documentation for each contemplated project and submit to BWSR for review prior to execution. The assurances will be executed prior to construction of the projects.</p> | | |
| Category | SPECIAL PROJECTS | | |
| Start Date | 1-Jun-17 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: Scaled-up testing of box nets for adult carp removal was completed. As expected, this process was determined to be a viable means for removing adult carp. However, the cost-per-unit-effort was slightly higher than large-scale commercial netting. Nevertheless, box netting will be a valuable tool when commercial netting is not possible. Second, low-voltage electric barriers were purchased, installed and tested at two locations on Rice Creek upstream of Long Lake. The purpose of the barriers is to 1) block migration of adults or juveniles, and/or 2) guide adults or juveniles into traps for removal. Test results in 2017 were very promising, as the system was able to “guide” 90+% of adult carp into a trap area. Testing of these systems will continue in 2018. These systems are relatively new to the United States (purchased from a Poland), and present an innovative method for taking advantage of natural carp migrations for removal. Plans were prepared and permissions obtained to install permanent electric service to the barrier sites in 2018, however, a contractor was not secured in time to complete the installation in 2018. 2019 and beyond will see the RCWD continue and expand upon the carp management work undertaken through this grant project.</p> | | |

| Activity Action - Carp Management Plan | | | |
|--|---|---------------------|-----------|
| Practice | 105M - Publications | Count of Activities | 1 |
| Description | Development of a carp management plan for the RCWD. | | |
| Proposed Size / Units | 1.00 COUNT | Lifespan | 25 Years |
| Actual Size/Units | 1.00 COUNT | Installed Date | 12-Dec-18 |
| Mapped Activities | No | | |

Grant Activity - Construction (Hansen Park)

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>This activity covers the construction of all project components proposed for Hansen Park in New Brighton. It is important to note that both water quality and flood control BMPs are proposed for this project site. Only costs and activities associated with water quality components of the project will be reported in eLINK.</p> <p>Preliminarily, the RCWD has proposed BMPs that may include, but are not limited to, (1) pond dredging to restore dead storage volume, (2) installation of an iron-enhanced sand filter to remove dissolved phosphorus, (3) a water reuse system to irrigate the adjacent ball fields and parkland, and (4) a smaller wet sedimentation pond to treat low flows from the 4th Street drainage area to Hansen Pond.</p> <p>As the RCWD moves through the design phase with its project partners, one or more of these components may be modified, removed or even replaced with additional features based on technical feasibility, permitting requirements, access requirements and funding availability. Preliminary indications have shown the presence of Level II contamination in Hansen Pond, although it is unclear exactly how this may impact the final dredging volume given our available construction budget.</p> <p>The RCWD will work to develop an access and maintenance agreement with the City of New Brighton for this project, which will be submitted to BWSR for review prior to execution. The assurances will be executed prior to construction of the project.</p> | | |
| Category | URBAN STORMWATER MANAGEMENT PRACTICES | | |
| Start Date | 23-Sep-16 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: Rachel Contracting, Inc. was retained by the RCWD to construct the project. Construction began in the fall/winter of 2016. The project stands at 98% completion, although remaining items are limited to final paving of a trail and some minor revegetation work. The Iron-Enhanced Sand Filter is complete and began operation in late 2018. An unseasonably warm winter of 2016-17 prevented us from completing this project in one year as originally planned, resulting in a full second year of construction. Despite the challenges, the final project costs were very near to the original contract budget. All aspects of the project are functioning as intended. An operations and maintenance manual has been prepared by Houston Engineering, Inc. to serve the project in the years to come.</p> | | |

| Activity Action - Dead Storage Dredging | | | |
|---|--|---------------------|-----------|
| Practice | 164M - Pond maintenance | Count of Activities | 1 |
| Description | Pond dredging to enhance dead storage volume and water quality treatment capacity of existing constructed basin. | | |
| Proposed Size / Units | 1.00 COUNT | Lifespan | 25 Years |
| Actual Size/Units | 1.00 COUNT | Installed Date | 12-Dec-18 |
| Mapped Activities | 1 Point(s) | | |

| Final Indicator for Dead Storage Dredging | | | |
|---|--|------------------|--------------------------|
| Indicator Name | PHOSPHORUS (EST. REDUCTION) | Value | 139 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | Calculation Tool | P8 Urban Catchment Model |
| Waterbody | Long Lake | | |

| Activity Action - Iron-Enhanced Sand Filter | | | |
|---|---|---------------------|-----------|
| Practice | 712M - Bioretention Basin | Count of Activities | 1 |
| Description | Installation of an offline pump-operated iron-enhanced sand filter (four filter beds) to remove dissolved phosphorus. | | |
| Proposed Size / Units | 1.00 COUNT | Lifespan | 25 Years |
| Actual Size/Units | 1.00 COUNT | Installed Date | 12-Dec-18 |
| Mapped Activities | 1 Point(s) | | |

| Final Indicator for Iron-Enhanced Sand Filter | | | |
|---|--|------------------|-------|
| Indicator Name | PHOSPHORUS (EST. REDUCTION) | Value | 52.5 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | Calculation Tool | Other |
| Waterbody | Long Lake | | |

Grant Activity - Construction (Middle Rice Creek)

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>This activity covers the construction of all project components proposed for the re-meandering and restoration of Middle Rice Creek through the former TCAAP property in Arden Hills, MN. This project will restore meanders within Rice Creek and will reconnect the creek to its floodplain, improving in-stream habitat and reducing sediment and nutrient transport through Middle Rice Creek.</p> <p>The RCWD will work to develop an access and maintenance agreement with Ramsey County Parks and Recreation for this project, which will be submitted to BWSR for review prior to execution. The assurances will be executed prior to construction of the project.</p> | | |
| Category | STREAMBANK OR SHORELINE PROTECTION | | |
| Start Date | 30-Oct-15 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: The RCWD entered into a construction contract with Veit & Company, Inc. for this project on October 30, 2015. Construction of the project's four phases took a total of three years to allow for a second growing season for vegetation to establish in and around the new channels. In early 2018, the project was completed as creek flows were moved to the new channels and the old channels were filled and stabilized. Construction of this project went very smoothly and the restoration work along the new channels is holding up well.</p> | | |

| Activity Action - Middle Rice Creek Restoration | | | |
|---|--|----------------------------|-----------|
| Practice | 584 - Stream Channel Stabilization | Count of Activities | 1 |
| Description | Restoration and re-meandering to create a stable channel for Middle Rice Creek through the former TCAAP property, now owned by Ramsey County Parks & Recreation. | | |
| Proposed Size / Units | 5,600.00 LINEAR FEET | Lifespan | 25 Years |
| Actual Size/Units | 5,400.00 LINEAR FEET | Installed Date | 12-Dec-18 |
| Mapped Activities | 1 Line(s) | | |

Final Indicator for Middle Rice Creek Restoration

| | | | |
|------------------------------------|---|-------------------------|-------|
| Indicator Name | SEDIMENT (TSS) | Value | 107 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | Calculation Tool | Other |
| Waterbody | Long Lake | | |

Final Indicator for Middle Rice Creek Restoration

| | | | |
|------------------------------------|--|-------------------------|-------|
| Indicator Name | PHOSPHORUS (EST. REDUCTION) | Value | 315 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | Calculation Tool | Other |

| | |
|-----------|-----------|
| Waterbody | Long Lake |
|-----------|-----------|

Grant Activity - Construction (Mirror Pond)

| | | | |
|------------------------------------|---|------------------------|------------------|
| <p>Description</p> | <p>This activity covers the construction of all project components proposed for Mirror Pond in Saint Anthony. It is important to note that both water quality and flood control BMPs are proposed for this project site. Only costs and activities associated with water quality components of the project will be reported in eLINK.</p> <p>Preliminarily, the RCWD has proposed dredging Mirror Pond to restore dead storage volume in addition to the construction of an adjacent biofiltration BMP to treat stormwater from a small subwatershed before discharging to Mirror Pond.</p> <p>As the RCWD moves through the design phase with its project partners, one or more of these components may be modified, removed or even replaced with additional features based on technical feasibility, permitting requirements, access requirements and funding availability.</p> <p>The RCWD will work to develop an access and maintenance agreement with the City of Saint Anthony for this project, which will be submitted to BWSR for review prior to execution. The assurances will be executed prior to construction of the project.</p> | | |
| <p>Category</p> | <p>URBAN STORMWATER MANAGEMENT PRACTICES</p> | | |
| <p>Start Date</p> | <p>30-Aug-16</p> | <p>End Date</p> | <p>31-Dec-18</p> |
| <p>Has Rates and Hours?</p> | <p>No</p> | | |
| <p>Actual Results</p> | <p>Final Report: The RCWD completed a low-dose whole basin alum treatment on August 30, 2016 aimed at removing some of the suspended phosphorus from the water column before the contractor began dewatering the basin in early September. Sunram Construction, Inc. was retained by the City of Saint Anthony to construct the project. Construction began in the fall/winter of 2016 and extended into a second season due to unseasonably warm conditions the first winter. By early 2018, the entire site's grading had been completed, the native plantings were all in place and the new outlet control structure had been installed. It was originally set at the wrong elevation, so the contractor came back out to modify the structure to meet the plans. RCWD staff will be installing equipment in early 2019 to monitor the effectiveness of the project.</p> | | |

| Activity Action - Dead Storage Dredging | | | |
|---|--|---------------------|-----------|
| Practice | 164M - Pond maintenance | Count of Activities | 1 |
| Description | Pond dredging to enhance dead storage volume and water quality treatment capacity of existing constructed basin. | | |
| Proposed Size / Units | 1.00 COUNT | Lifespan | 25 Years |
| Actual Size/Units | 1.00 COUNT | Installed Date | 12-Dec-18 |
| Mapped Activities | 1 Point(s) | | |

| Final Indicator for Dead Storage Dredging | | | |
|---|--|------------------|--------------------------|
| Indicator Name | PHOSPHORUS (EST. REDUCTION) | Value | 54 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | Calculation Tool | P8 Urban Catchment Model |
| Waterbody | Long Lake | | |

| Activity Action - Buffer Strip Construction | | | |
|---|--|---------------------|-----------|
| Practice | 393 - Filter Strip | Count of Activities | 1 |
| Description | Full restoration and stabilization of native planting buffer around entire perimeter of Mirror Pond. | | |
| Proposed Size / Units | 0.00 AC | Lifespan | 10 Years |
| Actual Size/Units | 1.50 AC | Installed Date | 12-Dec-18 |
| Mapped Activities | 1 Polygon(s) | | |

| Final Indicator for Buffer Strip Construction | | | |
|---|--|------------------|------------------|
| Indicator Name | PHOSPHORUS (EST. REDUCTION) | Value | 5 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR | Calculation Tool | Literature Value |
| Waterbody | Mirror Pond | | |

| Final Indicator for Buffer Strip Construction | | | |
|---|---|------------------|--|
| Indicator Name | SEDIMENT (TSS) | Value | .022 |
| Indicator Subcategory/Units | WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR | Calculation Tool | BWSR CALC (STREAM & DITCH STABILIZATION) |
| Waterbody | Mirror Pond | | |

Grant Activity - Design & Engineering (Carp Management)

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>This activity will expand upon the carp management plan developed under this program by developing specific targeted management projects to be implemented in Long Lake and adjacent water bodies. Projects identified in the management plan may exceed the budgeted total cost for this project, however the total construction funding for RCWD carp management is not planned to exceed \$325,000 during the grant project timeline.</p> <p>This activity may include working directly with the University of Minnesota and other metro area partners to hire a carp management specialist (fisheries scientist) to complete this work. Additional engineering services may be required to develop final plans and specifications and complete construction oversight.</p> | | |
| Category | TECHNICAL/ENGINEERING ASSISTANCE | | |
| Start Date | 1-Jan-18 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: Two ProCom portable electric barriers were successfully tested during a lease period in 2018 and subsequently purchased by the RCWD. The District Engineer prepared plans for installation of permanent electric service to the two sites in 2018, however, a contractor was not secured in time to complete the installation in 2018 and the work will be pushed to early 2019. Adding the permanent service will provide increased reliability, reduced noise, and a lower risk of pollution compared to using portable gas-powered generators so close to the creek.</p> | | |

Grant Activity - Design & Engineering (Hansen Park)

| | | | |
|-----------------------------|--|-----------------|-----------|
| Description | <p>This activity will involve the hiring of a design engineer consultant to expand upon the concept work completed previously by the RCWD and its project partners and complete final design plans, undertake permitting and develop specifications for the project. Construction oversight by the design engineer is also included here.</p> <p>Any budget overruns will be reported as RCWD local match. The RCWD (Cash) activity fund is only an accounting placeholder.</p> | | |
| Category | TECHNICAL/ENGINEERING ASSISTANCE | | |
| Start Date | 30-Jun-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: Extensive work was undertaken by RCWD staff and Houston Engineering to execute the design of this project. It took nearly 18 months to obtain regulatory approvals from the U.S. Army Corps of Engineers and Minnesota DNR. In the end, the complex site design was able to be constructed in an efficient manner by Rachel Contracting, Inc. Multiple change orders were required to adapt to a difficult site, yet the project's cost stayed very close to the original budget. The novel design for the Iron-Enhanced Sand Filter (IESF) system has already served as the inspiration for two additional RCWD IESF projects, and likely others around the region. The reconstructed pond and new outlet control has also reacted (bounced) to rain events almost exactly as modeled by the engineer.</p> | | |

Grant Activity - Design & Engineering (Middle Rice Creek)

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>This activity will involve the hiring of a design engineer consultant to expand upon the concept work completed previously by the RCWD and its project partners and complete final design plans, undertake permitting and develop specifications for the project. Construction oversight by the design engineer is also included here.</p> <p>Any budget overruns will be reported as RCWD local match. The RCWD (Cash) activity fund is only an accounting placeholder.</p> | | |
| Category | TECHNICAL/ENGINEERING ASSISTANCE | | |
| Start Date | 12-Nov-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: Emmons & Olivier Resources, Inc. (EOR) was hired from the RCWD Engineering Pool to design and manage construction of this project. EOR was efficient and successful in handling several early accounting gaffes by the Veit project manager (who was eventually replaced). The regulatory approval process was fairly straightforward with the U.S. Army Corps of Engineers and Minnesota DNR. Construction was split into four phases and phases 3 and 4 were delayed a year to allow additional vegetation establishment time before bringing the new channel segments online. The design and implementation schedule prepared by EOR lead to the success of this project, and it will serve as a good example for other future efforts in the RCWD and around the region.</p> | | |

Grant Activity - Design & Engineering (Mirror Pond)

| | | | |
|-----------------------------|--|-----------------|-----------|
| Description | <p>This activity will involve the hiring of a design engineer consultant to expand upon the concept work completed previously by the RCWD and its project partners and complete final design plans, undertake permitting and develop specifications for the project. Construction oversight by the design engineer is also included here.</p> <p>Any budget overruns will be reported as RCWD local match. The RCWD (Cash) activity fund is only an accounting placeholder.</p> | | |
| Category | TECHNICAL/ENGINEERING ASSISTANCE | | |
| Start Date | 30-Jun-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: WSB & Associates (WSB) provided the design and construction oversight services for this project, working as a consultant to the City of Saint Anthony under the project agreement between the City and RCWD. In all, the partnership produced an excellent project. The regulatory process took nearly 18 months to complete, similar to the Hansen Park project. Design plans were impacted due to the presence of a NuStar high-pressure gas pipeline running directly underneath the pond. Dredging was avoided in this corridor, resulting in a linear "high spot" in the bottom of the redesigned pond. In addition to the pond dredging, outlet control replacement and riparian buffer establishment proposed in the original project, a storm sewer diversion was added that brought additional 7 acres of drainage area into Mirror Pond for treatment rather than the previous storm sewer flow path which bypassed the pond and drained directly to Ramsey County Ditch 3 untreated.</p> | | |

Grant Activity - Grant Administration

| | | | |
|-----------------------------|--|-----------------|-----------|
| Description | <p>This activity covers general administration of the grant project including fiscal accounting, record keeping, reporting and all other administrative level activities. The RCWD will complete two work plan review meetings with BWSR staff annually to monitor progress and adjust the work plan as needed.</p> <p>The components of this project activity will require an estimated 0.2+ FTEs over the four years of the grant.</p> | | |
| Category | ADMINISTRATION/COORDINATION | | |
| Start Date | 30-Jun-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | Yes | | |
| Actual Results | <p>Final Report: RCWD staff has completed all grant administration duties associated with this suite of projects. Activities generally included tracking of expenditures, managing accounting spreadsheets and working with internal staff, project partners and BWSR to ensure that this complex project stays consistent with CWF policy. The RCWD's handling of the project and grant funds has passed several reviews by BWSR as well as the RCWD's annual audits.</p> | | |

Grant Activity - Project Development

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>This activity covers all RCWD staff time devoted to the grant program aside from administrative and grant reporting duties.</p> <p>Typical activities will include, but are not limited to, project development, staff and partner project meetings, assurance development, project design review, construction oversight and inspection, marketing, education & outreach activities, promotional materials and signage development, presentations, etc.</p> <p>Overall grant program coordination will be led by the RCWD Water Resource Specialist. The Hansen Park and Mirror Pond projects will be led by the RCWD Water Resource Specialist. The Middle Rice Creek and Carp Management projects will be led by the RCWD Lake & Stream Specialist. The RCWD Outreach Coordinator will handle the majority of project marketing, outreach and signage components. The RCWD Administrator will support and guide all of these activities, ensuring consistency with the policies and procedures of the RCWD Board of Managers and the RCWD Watershed Management Plan.</p> <p>The components of this project activity will require an estimated 2.7+ FTEs over the four years of the grant.</p> | | |
| Category | PROJECT DEVELOPMENT | | |
| Start Date | 30-Jun-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | Yes | | |
| Actual Results | <p>Final Report: The RCWD has achieved 100% completion for each of the four projects with the exception of Hansen Park. However, the remaining work only consists of placement of the final wear course of asphalt on the western trail and some minor vegetation establishment issues, which has nothing to do with the water quality goals and outcomes associated with the project. Staff has presented numerous times in various public forums, including City Council and RCWD Board of Managers meetings, the MN Water Resources Conference and MN Association of Watershed Districts annual conference, among others. All four projects are in position to remain fully operational in 2019 and beyond. A series of staff workload issues in 2018 did lead to the delay of signage installation for the Hansen Park and Middle Rice Creek projects. The RCWD Board passed a motion on 12-12-2018 committing to the installation of project signage, consistent with BWSR policy, in 2019. BWSR staff has previously approved this approach.</p> | | |

Grant Activity - Project Development (Carp Management)

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>The RCWD will develop a comprehensive carp management plan to provide a better understanding of the dynamics of carp populations, reproduction and movement within the Rice Creek system. The plan will bridge the gap between current research by the RCWD and University of Minnesota and effective management of carp for water quality improvement.</p> <p>This activity may include working directly with the University of Minnesota and other metro area partners to hire a carp management specialist (fisheries scientist) to complete this work. Services provided may include, but are not limited to, (1) specialized monitoring (electrofishing, radio tagging, aging, etc.), (2) permit acquisition, and (3) management plan development.</p> <p>Engineering and attorney consultant fees associated with negotiating and securing assurances (easements, maintenance agreements, intergovernmental agreements, etc.) for the practices eventually installed under this program will be reported here as well.</p> <p>The RCWD will develop specific and unique maintenance assurance documentation for each contemplated project and submit to BWSR for review prior to execution. The assurances will be executed prior to construction of the projects.</p> | | |
| Category | PROJECT DEVELOPMENT | | |
| Start Date | 30-Jun-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: Carp Solutions, LLC completed their data collection work and provided a final report to RCWD staff in 2018. This report was used to generate a RCWD-wide carp management plan and a localized system plan for the Long Lake - Lino Chain of Lakes area. These plans were adopted by the RCWD Board on 12-12-2018. After a successful lease trial period, the RCWD purchased two ProCom portable electric fish barriers and is working to provide permanent electric service to the two barrier sites so we don't have to rely on generators to power the systems. Adult removals via trap netting was also found to be another viable option for reducing the carp biomass in our systems. Carp Management will become a new program area for the RCWD in its upcoming 2020 Watershed Management Plan, cementing the efforts at the forefront of RCWD's surface water quality improvement work for years to come.</p> | | |

Grant Activity - Project Development (Hanson Park)

| | | | |
|------------------------------------|---|------------------------|------------------|
| <p>Description</p> | <p>The RCWD will work with its municipal partners, principally the City of New Brighton (landowner) to develop this project. This activity covers consultant time related to project concept development and marketing and education costs.</p> <p>Engineering and attorney consultant fees associated with working to negotiate and secure assurances (easements, maintenance agreements, intergovernmental agreements, etc.) for the project will be reported here as well.</p> <p>Any budget overruns will be reported as RCWD local match. The RCWD (Cash) activity fund is only an accounting placeholder.</p> <p>The RCWD will work to develop an access and maintenance agreement with the City of New Brighton for this project, which will be submitted to BWSR for review prior to execution. The assurances will be executed prior to construction of the project.</p> | | |
| <p>Category</p> | <p>PROJECT DEVELOPMENT</p> | | |
| <p>Start Date</p> | <p>30-Jun-14</p> | <p>End Date</p> | <p>31-Dec-18</p> |
| <p>Has Rates and Hours?</p> | <p>Yes</p> | | |
| <p>Actual Results</p> | <p>Final Report: The Hansen Park Project is substantially complete at this time (98% overall completion). All functional water quality and flood control components of the project are installed and operational. Pond dredging and removal of contaminated sediments were completed per plan (although it took two winters), restoring and expanding the dead storage water quality treatment capacity of the pond. The Iron-Enhanced Sand Filter (IESF) system is fully operational and went into service in late 2018. After a couple months of operation and some troubleshooting, the RCWD will be making some minor adjustments to the configuration of the system during startup in 2019. The IESF pumps and treats about 250,000 gallons per day! Native vegetation establishment and maintenance is ongoing, and the RCWD is developing a maintenance plan to manage those efforts for the next 3-5 years. The construction contract with Rachel Contracting, Inc, will be maintained until the last few bits of work are completed in 2019. Less than 2% of the contract value remains to be completed.</p> | | |

Grant Activity - Project Development (Middle Rice Creek)

| | | | |
|-----------------------------|--|-----------------|-----------|
| Description | <p>The RCWD will work with Ramsey County Parks & Recreation (landowner) to develop this project on the former TCAAP property. This activity covers consultant time related to project concept development and marketing and education costs.</p> <p>Engineering and attorney consultant fees associated with working to negotiate and secure assurances (easements, maintenance agreements, intergovernmental agreements, etc.) for the project will be reported here as well.</p> <p>Any budget overruns will be reported as RCWD local match. The RCWD (Cash) activity fund is only an accounting placeholder.</p> <p>The RCWD will work to develop an access and maintenance agreement with Ramsey County Parks and Recreation for this project, which will be submitted to BWSR for review prior to execution. The assurances will be executed prior to construction of the project.</p> | | |
| Category | PROJECT DEVELOPMENT | | |
| Start Date | 30-Jun-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: Construction of this project is 100% complete and the contract with Veit & Company has been closed. Three channelized sections of Rice Creek in the former TCAAP property (now Ramsey County Parks) were filled and replaced with meandering stream channel, reducing the downstream transport of sediment and nutrients to Long Lake and adding nearly 0.5 miles of new stream length within the property. The restoration activities have thus far been seen as successful with new banks holding up well to the high flow rates Rice Creek has experienced the last few years. Continual monitoring will occur and maintenance will be undertaken in the future as warranted.</p> | | |

Grant Activity - Project Development (Mirror Pond)

| | | | |
|-----------------------------|---|-----------------|-----------|
| Description | <p>The RCWD will work with its municipal partners, principally the City of Saint Anthony (landowner) to develop this project. This activity covers consultant time related to project concept development and marketing and education costs.</p> <p>Engineering and attorney consultant fees associated with working to negotiate and secure assurances (easements, maintenance agreements, intergovernmental agreements, etc.) for the project will be reported here as well.</p> <p>Any budget overruns will be reported as RCWD local match. The RCWD (Cash) activity fund is only an accounting placeholder.</p> <p>The RCWD will work to develop an access and maintenance agreement with the City of Saint Anthony for this project, which will be submitted to BWSR for review prior to execution. The assurances will be executed prior to construction of the project.</p> | | |
| Category | PROJECT DEVELOPMENT | | |
| Start Date | 30-Jun-14 | End Date | 31-Dec-18 |
| Has Rates and Hours? | No | | |
| Actual Results | <p>Final Report: This project achieved 100% completion in 2018. The City of Saint Anthony (landowner) served as the lead implementer under an agreement with the RCWD. Dredging and grading of the pond and surrounding embankments took two years due to poor weather conditions in the winter of 2016-2017. Water clarity within the pond is already noticeably improved over previous years. Approximately 1.5 acres of upland native riparian buffer area was added surrounding the pond as a part of this project. Monitoring activities by the RCWD will commence in earnest in 2019.</p> | | |

Grant Attachments

| Document Name | Document Type | Description |
|--|-----------------|---|
| 02-23-2017 CWF Financial Report 2nd Payment | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2014 TWD Blue Water Science | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2014 TWD Houston Engineering | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2014 TWD RCWD Staff Time | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2014 TWD Smith Partners REVISED | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2014 Targeted Watershed | Grant Agreement | 2014 Targeted Watershed - Rice Creek WD |
| 2014 Targeted Watershed executed | Grant Agreement | 2014 Targeted Watershed - Rice Creek WD |
| 2015 Financial Report | Grant | 2014 - Targeted Watershed (Rice Creek WD) |

| Document Name | Document Type | Description |
|---|---------------|---|
| 2015 TWD Carp Solutions | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2015 TWD Emmons and Olivier Resources | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2015 TWD Houston Engineering | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2015 TWD Oregon RFID | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2015 TWD Other Receipts | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2015 TWD RCWD Staff Time | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2015 TWD Rinke Noonan | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2015 TWD Smith Partners | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 CWF Financial Report | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Carp Solutions | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Emmons and Olivier Resources | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Houston Engineering | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Other Receipts | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD RCWD Staff Time | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Rachel Contracting | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Rinke Noonan | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Saint Anthony Village | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Smith Partners | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2016 TWD Veit and Company | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 CWF Financial Report 01-09-2018 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Carp Solutions | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Emmons and Olivier Resources | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Houston Engineering | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Other Receipts | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD RCWD Staff Time | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Rachel Contracting | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Saint Anthony Village | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Smith Partners | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2017 TWD Veit and Company | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 20170913 Procom System, S.A. Wire Transfer | Grant | 2014 - Targeted Watershed (Rice Creek WD) |

| Document Name | Document Type | Description |
|---|--------------------|--|
| 20171120 Procom System, S.A. Wire Transfer | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 CWF Financial Report 20190129 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Carp Solutions | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Emmons & Olivier Resources | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Gary Carlson Equipment | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Houston Engineering | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Other Invoices | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD ProCom Wire Transfers | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD RCWD Staff Time | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Rachel Contracting | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Saint Anthony | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Smith Partners | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| 2018 TWD Veit and Company | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| ACOE Letter 2015-02496-ADB Middle Rice Creek | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| ACOE Permit 2014-04326-LMG Mirror Lake | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| ACOE Permit MVP-2009-02961-RMM Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 05/26/2016 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 05/31/2016 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 08/10/2016 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/17/2017 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/24/2017 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 02/24/2017 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 03/16/2017 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 03/16/2017 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 06/29/2017 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 08/15/2017 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/09/2018 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 07/02/2018 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 07/10/2018 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 07/25/2018 |

| Document Name | Document Type | Description |
|---|--------------------|--|
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/27/2016 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/28/2019 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 01/14/2015 |
| All Details Report | Workflow Generated | Workflow Generated - All Details Report - 09/09/2015 |
| BWSR carp equipment approval | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Carp Solutions Research Agreement and Scope of Work | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Carp Solutions Research Agreement and Scope of Work - Year 2 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Carp Solutions Work Summary - Year 1 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Cooperative Agreement with City of Saint Anthony - Mirror Pond | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| DNR Permit 2015-2112 Middle Rice Creek | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| DNR Permit 2015-2980 Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| DNR Permit 2016-0299 Mirror Lake | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| EOR engineering services agreement 00103-0108 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| EOR engineering services agreement 00103-0108 change order #1 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| EOR engineering services agreement 00103-0108 change order #2 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| EOR engineering services agreement 00103-0108 change order #3 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Estimated Timeline and Milestones | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Extension for workplan approval and grant execution - Rice Creek WD - Targeted Watershed grant | Journal | Journal Dated - 06/18/2014 |
| Hansen Park Conceptual Design Summary Report | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park Construction Plans FINAL | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park Dam Final Report_ASBUILT_20181114 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park EAW | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park EAW Decision/FOF | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park MOA with New Brighton | Grant | 2014 - Targeted Watershed (Rice Creek WD) |

| Document Name | Document Type | Description |
|--|---------------|---|
| Hansen Park Open House Project Summary | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park Operations and Maintenance Manual 20190131 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park Preliminary Plans | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park Project Agreement RCWD-New Brighton | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Hansen Park Water Quality vs Flood Control Ratios | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2014-30 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2014-31 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2014-31 Change Order #1 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2014-31 Change Order #2 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2015-18 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2015-18 Change Order #1 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2015-21 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2015-21 Change Order #1 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2015-21 Change Order #2 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2016-12 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Houston Engineering Task Order 2016-23 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| M T Properties, Inc. Permit | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| MN DNR Permit 2018-2943 - Hansen Park IESF | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Middle Rice Creek Access Agreement with Ramsey County | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Middle Rice Creek Conceptual Design Technical Memo | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Middle Rice Creek Construction Contract with Veit & Company, Inc. | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Middle Rice Creek Construction Plans | Grant | 2014 - Targeted Watershed (Rice Creek WD) |

| Document Name | Document Type | Description |
|--|---------------|---|
| Middle Rice Creek EAW | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Middle Rice Creek EAW Decision/FOF | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Middle Rice Creek Management Plan_2018_12_27 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirro Lake Open House Project Summary | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Lake Construction Plans FINAL | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Lake EAW | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Lake EAW Decision/FOF | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Lake Foss Road Diversion As-Built Plans | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Lake Improvements Project Preliminary Plan Set | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Lake Water Qaulity vs Flood Control Ratios | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Lake_AsBuilt_20180918 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Mirror Pond Conceptual Design Memorandum | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| New Brighton Resolution 14-042 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Original RFI | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Overall Measureable Goal Statement | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| PLM Service Agreement - Mirror Lake Alum Treatment | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Project Area Map | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| RCWD Board Minutes 12-12-2018 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| RCWD Carp Long Lino System Plan final draft | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| RCWD Carp Management Plan final draft Dec2018 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| RCWD Grant Agreement P14-2270 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| RCWD Resolution 2014-21 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| RCWD Resolution 2016-10 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| RCWD Resolution 2016-14 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Rachel Change Order No. 1 - Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Rachel Change Order No. 2 - Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Rachel Change Order No. 3 - Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Rachel Change Order No. 4 - Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |

| Document Name | Document Type | Description |
|--|--------------------|---|
| Rachel Change Order No. 5 - Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Rachel Change Order No. 6 - Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Rachel Contracting Construction Agreement - Hansen Park | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Ramsey County Memorandum of Understanding | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Ramsey County Resolution 2014-193 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Ramsey SWCD Service Agreement - Hansen Park Revegetation Plan | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Saint Anthony Resolution 14-043 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Saint Anthony Resolution 2016-62 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Sunram Change Order No. 1 - Mirror Lake | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Sunram Construction Agreement - Mirror Lake | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Updated Project Gantt Chart 05-05-2015 | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Veit Change Order #1 - Middle Rice Creek | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Veit Change Order #2 - Middle Rice Creek | Grant | 2014 - Targeted Watershed (Rice Creek WD) |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 06/30/2014 |
| Work Plan | Workflow Generated | Workflow Generated - Work Plan - 04/07/2014 |