Sand Creek Stormwater Retrofit Project
Clean Water Partnership Grant PRJ07586

Final Report

Coon Creek Watershed District
Anoka Conservation District
City of Coon Rapids

Prepared December 2012
Coon Creek Watershed District
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1. **Grant Project Summary**

<table>
<thead>
<tr>
<th>Project Title: Sand Creek Stormwater Retrofit Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organization (Grantee): Coon Creek Watershed District</td>
</tr>
<tr>
<td>Project start date: May 11, 2011 Project end date: December 31, 2012</td>
</tr>
<tr>
<td>Report submittal date: January 3, 2013</td>
</tr>
<tr>
<td>Grantee Contact Name: Tim Kelly Title: District Administrator</td>
</tr>
<tr>
<td>Address: 12301 Central Avenue NE, Suite 100</td>
</tr>
<tr>
<td>City: Blaine State: MN Zip: 55434 County: Anoka</td>
</tr>
<tr>
<td>Phone #: 763.755.0975 Fax: 763.755.0283 E-mail: <a href="mailto:tkelly@cooncreekwd.org">tkelly@cooncreekwd.org</a></td>
</tr>
<tr>
<td>Basin: Mississippi, Anoka County, MN</td>
</tr>
<tr>
<td>Latitude/Longitude for center of project area: 45°11'4.78&quot;N, 93°17'47.06&quot;W</td>
</tr>
<tr>
<td>Project Funding Type (check one): ☑CWP Diagnostic ☒CWP Implementation</td>
</tr>
<tr>
<td>☐319 Implementation ☐319 Non-implementation</td>
</tr>
<tr>
<td>Final Grant Amount: $83,650 Final total project costs: $218,033.26</td>
</tr>
<tr>
<td>Matching funds: Final cash: $89,108.29 Final In-Kind: $45,274.97</td>
</tr>
<tr>
<td>Contract number: PRJ07586 MPCA project manager: Brooke Asleson</td>
</tr>
</tbody>
</table>

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Executive Summary of Project

This Project is a success story of inter-governmental cooperation in implementing pollution-reduction Best Management Practices (BMPs) for Sand Creek. The Result? Nine rain gardens and one new stormwater pond are treating 51 acres that were previously not treated for stormwater pollution removal. Project partners increasingly contributed effort and money as the project went on, not out of need, but out of support in the project. Sand Creek benefits from less erosion, phosphorus, and total suspended solids. Sand Creek is the major tributary to Coon Creek that joins the Mississippi River at Coon Rapids, MN.

Data from water quality monitoring in 2007 and 2008 identified Sand Creek as the subwatershed of greatest concern within the Coon Creek watershed. Because of the post-World War II build-out in this subwatershed we implemented a retrofit diagnostic study in 2009, the Sand Creek Subwatershed Stormwater Retrofit Assessment, prepared for Coon Creek Watershed District (CCWD) by the Anoka Conservation District (ACD). The study began with monitoring water quality and hydrology at six locations in a three-year period. It resulted in a list of 12 water quality improvement retrofit projects, selected through a rigorous ranking process by cost-effectiveness.

This 2011 Clean Water Partnership (CWP) grant funding went to installing two of the four most cost-effective projects to reduce phosphorus, total suspended solids, and stormwater runoff volumes in Sand Creek. The two BMPs installed were a new stormwater pond and a network of nine strategically-placed curb-cut rain garden retrofits. The other two priority retrofit projects were installed in Fall 2010 by CCWD.

Data is continuing to be collected as part of the regular stream monitoring done by Coon Creek Watershed District. This provides good comparison of pre and post-CWP grant project data.

Goals (Include three primary goals for this project.)

<table>
<thead>
<tr>
<th>Goal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Total Suspended Solids reduction by 9,322 lbs/year</td>
</tr>
<tr>
<td>2nd</td>
<td>Total Phosphorus load reduction by 15.4 lbs/year</td>
</tr>
<tr>
<td>3rd</td>
<td>Volume reduction by 6.4 acre-feet/year</td>
</tr>
</tbody>
</table>

Results that count (Include the results from your established goals.)

<table>
<thead>
<tr>
<th>Goal</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Being Monitored</td>
</tr>
<tr>
<td>2nd</td>
<td>Being Monitored</td>
</tr>
<tr>
<td>3rd</td>
<td>Being Monitored</td>
</tr>
</tbody>
</table>
Description/location:
1. Xeon stormwater pond, Xeon street and 118th Ave NW, Coon Rapids, MN
2. Rasmussen 2 corner rain gardens, 118th and Kumquat NW, Coon Rapids, MN

Acronyms (Name all project acronyms and their meanings.)

- ACD – Anoka Conservation District
- BMP – Best Management Practice
- CCWD – Coon Creek Watershed District
- CWP – Clean Water Partnership
- P – Phosphorus
- TSS - Total Suspended Solids

Partnerships (Name all partners and indicate relationship to project)

City of Coon Rapids- donated land for Xeon stormwater pond, $5000 to rain garden project, and land for 2 rain gardens at a trail access point at the outlet for this subwatershed. They also donated the excavated soil to the City of Fridley for a berm project at Springbrook Nature Center.

Anoka Conservation District – provided cost-share money of nearly $9000 for rain gardens, and coordinated rain garden outreach, education and construction. ACD is also contracted to do the water quality monitoring for CCWD.
1. Work Plan Review
Overall, the project went smoothly and was implemented as planned.

A. Changes
As often happens in construction, we encountered a couple of unexpected situations; one at the start of pond construction in May 2012 and one during rain garden construction in October 2012. Both situations were resolved within a few days and did not warrant amending the Work Plan nor asking for additional money since bids were low enough to give us some “room to work.”

Xeon Street Pond Initial excavation in May revealed a higher than expected water table. Precipitation had been heavy in the previous months of 2012. Dewatering of the project site was necessary for further excavation. Onsite topsoil use and a boulder wall elimination offset the cost of dewatering. Overall, there was no adverse effect on pond construction or function.

Sand Creek Rain Gardens The rain garden construction went smoothly with one minor delay; the City realized water lines running under three gardens were in need of more frost protection. Also, retaining walls, a pre-treatment concrete pad, and some curb work required additional repair. This resulted in about an extra two days of in-kind effort and $2,290 in direct cost. The project stayed under bid even with this additional cost.

B. Activity Reports
All tasks were completed that are in the Work Plan. Elements went smoothly with just the two unexpected situations mentioned above. The Project Elements were divided into two major Activities: 1) the Xeon Pond Construction, primarily overseen by Coon Creek Watershed District, and 2) the Sand Creek Rain Garden Implementation overseen by Coon Creek Watershed District, but carried out by the Anoka Conservation District.

Element 1  Project Management
Coon Creek Watershed District handled this task. It involved the fiscal management and administration of the project as well as office support tasks. The District Administrator oversaw the preparation and submission of the required MPCA reports which included three semi-annual reports and this final report.

Element 2  Outreach/Promotion
Anoka Conservation District (ACD) staff primarily performed this task which went successfully.

<table>
<thead>
<tr>
<th>Task</th>
<th>Responsible Party</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Selection</td>
<td>ACD</td>
<td>Oct 2011</td>
</tr>
<tr>
<td>Outreach/Promotion</td>
<td>ACD</td>
<td>Sep 2011</td>
</tr>
<tr>
<td>Landowner Education</td>
<td>ACD</td>
<td>Oct 2011</td>
</tr>
<tr>
<td>Design Finalization</td>
<td>ACD</td>
<td>Oct –Dec 2011</td>
</tr>
</tbody>
</table>
Element 3  Rain Garden Implementation
No problems were encountered with the following tasks other than the water line insulation delay discussed previously. These tasks are self-explanatory, no further discussion is given.

<table>
<thead>
<tr>
<th>Task</th>
<th>Responsible Party</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landowner Contracts signed</td>
<td>ACD</td>
<td>July 2012</td>
</tr>
<tr>
<td>Contractor RFP Development</td>
<td>ACD</td>
<td>Aug 2012</td>
</tr>
<tr>
<td>Pre-Bid Mtg</td>
<td>ACD</td>
<td>Aug 2012</td>
</tr>
<tr>
<td>Pre-Construction Mtg</td>
<td>ACD</td>
<td>Aug 2012</td>
</tr>
<tr>
<td>Construction Monitoring</td>
<td>ACD</td>
<td>Sept 2012</td>
</tr>
<tr>
<td>Planting Assistance</td>
<td>ACD</td>
<td>Sept 2012</td>
</tr>
</tbody>
</table>

Element 4  Xeon Pond Implementation
Construction of this new regional stormwater pond occurred in May and June. Construction went smoothly after the initial issue of high groundwater mentioned previously. The pond lies at the outlet of an older neighborhood which formerly directed all of its stormwater into Sand Creek without treatment. In total, water from 105 parcels in 23-acres is being treated. It is located on property owned by the City of Coon Rapids which will be responsible for long-term maintenance.

<table>
<thead>
<tr>
<th>Task</th>
<th>Responsible Party</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pond Specifications</td>
<td>CCWD</td>
<td>March 2012</td>
</tr>
<tr>
<td>Pre-Bid Meeting</td>
<td>CCWD</td>
<td>April 2012</td>
</tr>
<tr>
<td>Bid Let</td>
<td>CCWD</td>
<td>April 2012</td>
</tr>
<tr>
<td>Bid Award</td>
<td>CCWD</td>
<td>May 2012</td>
</tr>
<tr>
<td>Pond Construction</td>
<td>CCWD</td>
<td>June 2012</td>
</tr>
</tbody>
</table>

Element 5  Monitoring
Sand Creek has ongoing monitoring as part of the Coon Creek Watershed District Comprehensive Plan and so was not funded by this grant. Hence, data are available for comparison to post-grant project results to help determine the effectiveness of this project.

Goals: Reduce Total Phosphorous (TP) load by 15.4 lbs/year
Reduce Total Suspended Solids (TSS) by 9,322 lbs/year
Reduce volume by 6.4 acre-feet/year (Subcatchment 3 only)

<table>
<thead>
<tr>
<th>Task</th>
<th>Responsible Party</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stream Monitoring</td>
<td>ACD for CCWD</td>
<td>Ongoing</td>
</tr>
</tbody>
</table>
2. Grant Results

A. Rain Gardens
In September 2011 two staff from the Anoka Conservation District knocked on 31 doors of pre-identified priority properties to promote rain garden installation. Two outreach/promotion materials used are in Appendix A: a door hanger and a fact sheet.

ACD staff also presented one evening workshop on rain gardens for interested landowners on Tuesday, October 18, 2011. It was held at the neighborhood school, Sand Creek Elementary. The workshop highlighted the benefits of rain gardens, how the installation process would work, and financing elements. Of the 12 participants at the workshop, nine people representing seven properties signed a “Statement of Intent to Participate in the Coon Creek Watershed District’s Sand Creek Neighborhood Rain Garden Project.” Of these seven properties all except one joined the project because their site was an ineffective location; it was located just downstream of a catchbasin. Materials developed and given at this presentation are in Appendix A.

Nine rain garden designs were then finalized by ACD in concert with the seven property owners by January 2012 so that each design template was chosen and then modified by property owners. Two properties have two rain gardens each: the Rasmussens on a corner lot and the City of Coon Rapids near Sand Creek. This project did not require a monetary buy-in by the landowner, but did require plant material installation and a 10-year maintenance commitment. A sample of the Maintenance Agreement and Maintenance Plan is in Appendix A of this report.

B. Xeon Pond
One new stormwater treatment pond is now treating 23 acres of drainage. The new pond has a SAFL Baffle installed in the pond inlet for additional treatment. The excavated soil was donated to the City of Fridley for a project at Springbrook Nature Center, estimated the cost savings of ~$100,000. One factsheet was produced and on our website (24 views) and given at a homeowner workshop on March 8, 2012 with 4 attendees.
C. Monitoring

New data are in the process of being collected and analyzed. Data are collected using grab samples eight times between April and October, four times during base flow and four times during storm flow. Storms are generally defined as one-inch or more of rainfall in 24 hours or a significant snowmelt event combined with rainfall. In drought years, smaller storms are sampled because of a lack of larger storms. All storms sampled previous to 2012 have been significant runoff events.

Parameters tested with portable meters include pH, conductivity, turbidity, temperature, salinity, and dissolved oxygen. Secchi transparency is collected. During every sampling the water level (stage) was recorded using a staff gauge surveyed to sea level elevations. Stage was also continuously recorded using a datalogging electronic gauge at the Xeon Street stream crossing.

Total phosphorus, total suspended solids, and chlorides are tested through a state-certified lab. The samples are sent via lab-supplied courier to the certified Minnesota Valley Testing Laboratories of New Ulm, MN. All data are compiled into spreadsheet form for analysis as well as entered into the MPCA database EQuIS (formerly STORET Site ID = S004-619).

<table>
<thead>
<tr>
<th>Goals: Site</th>
<th>TP (lbs/yr)</th>
<th>TSS (lbs/yr)</th>
<th>Volume (acre-feet/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Pre-treatment</td>
<td>Goal</td>
<td>% Removal</td>
</tr>
<tr>
<td>SC-R1</td>
<td>19</td>
<td>9.3</td>
<td>49</td>
</tr>
<tr>
<td>SC-R3</td>
<td>120.5</td>
<td>6.1</td>
<td>5</td>
</tr>
</tbody>
</table>

Monitoring Stations in relation to project subcatchment areas.
## D. Products

### 1. Xeon Stormwater Pond

<table>
<thead>
<tr>
<th>Product</th>
<th>Number</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workshops</td>
<td>1</td>
<td>March 8 2012</td>
</tr>
<tr>
<td>Xeon Pond Factsheet</td>
<td>4</td>
<td>March 2012</td>
</tr>
<tr>
<td>Stormwater Pond</td>
<td>1</td>
<td>June 2012</td>
</tr>
</tbody>
</table>

### 2. Rain Gardens

<table>
<thead>
<tr>
<th>Product</th>
<th>Number</th>
<th>Completion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recruitment door hanger</td>
<td>31</td>
<td>Sep-Oct 2011</td>
</tr>
<tr>
<td>Recruitment poster</td>
<td>31</td>
<td>Sep-Oct 2011</td>
</tr>
<tr>
<td>Workshops</td>
<td>1</td>
<td>Oct 18, 2011</td>
</tr>
<tr>
<td>Workshop Households Participated</td>
<td>7</td>
<td>Oct 2011</td>
</tr>
<tr>
<td>Property owners enrolled</td>
<td>7</td>
<td>Dec 2011</td>
</tr>
<tr>
<td>Maintenance Agreement signed</td>
<td>7</td>
<td>Aug 2012</td>
</tr>
<tr>
<td>Planting instruction sheet</td>
<td>7</td>
<td>Oct 2012</td>
</tr>
<tr>
<td>Rain Gardens</td>
<td>9</td>
<td>Oct 2012</td>
</tr>
<tr>
<td>Maintenance Plan</td>
<td>7</td>
<td>Oct 2012</td>
</tr>
</tbody>
</table>

### 3. Additional Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Number</th>
<th>Completed</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local Newspaper Articles</td>
<td>3</td>
<td>Nov 19, 2010</td>
<td>CWP grant promo CWP Rain Garden support Xeon Pond</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nov 9, 2011</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>April 2, 2012</td>
<td></td>
</tr>
<tr>
<td>CWP Rain Garden presentation to Coon Rapids Sustainability Commission</td>
<td>1</td>
<td>Oct 13, 2011</td>
<td>Recommendation and Council approval of $5,000 Stormwater Utility funds to CWP rain garden project</td>
</tr>
<tr>
<td>MPCA report</td>
<td>1</td>
<td>Jan 2012</td>
<td>Annual Watershed Achievements Report 2011, p.96</td>
</tr>
<tr>
<td>Re-use of excavated soil - donated to Springbrook Nature Center berm</td>
<td>1</td>
<td>July 2012</td>
<td>$100,000 donation and increased partnership with City of Fridley and its Spring Brook Nature Center</td>
</tr>
<tr>
<td>ACD Project Profile factsheet</td>
<td>1</td>
<td>Nov 2012</td>
<td>Project promotion</td>
</tr>
<tr>
<td>Photo-documentation</td>
<td>570</td>
<td>Oct 2012</td>
<td>1 CD of construction &amp; inspection photos of rain garden and Xeon pond</td>
</tr>
</tbody>
</table>
E. Public Outreach and Education

Public outreach and education was a critical part of the Rain Garden component of this grant project. It was needed for recruitment of homeowners who would commit to having a rain garden constructed in their yard and commit to a 10-year maintenance agreement. Coon Creek Watershed District provided a no-cost-to-homeowner incentive and the Anoka Conservation District (ACD) implemented the outreach program.

The outreach program was successful. Nine new rain gardens on seven properties with a total storage volume of 1,901 feet³ are now ready for treating 27.81 acres. Two ACD staff spent two evenings going door to door to 31 properties targeted as effective treatment locations. Door hangers or informational poster/flyers were given out at each property. Twelve owners of eight properties then came to an informational workshop on October 18, 2011, at Sand Creek Elementary School. All 12 attendees signed intent-to-participate forms at the end of the workshop (copy attached). One property was in an ineffective location, just downstream of a catchbasin, and so not used in the project. The other seven property owners, including the City of Coon Rapids, participated. Customization of designs proceeded and was finalized by December 2011.

In February, ACD gave a presentation on the project to the Coon Rapids Sustainability Commission. The Commission supported the project and recommended the City Council give $5,000 towards the project. The Council subsequently authorized a $5,000 contribution out of the stormwater utility fund (Minutes attached). In April, the project was displayed by Coon Creek Watershed District at the Coon Rapids Green Expo where several questions answered about the project. In May and June 2012 the Xeon stormwater pond was constructed.

Rain garden construction occurred in September-October 2012 after the Xeon stormwater Pond was completed and final funding determined, bids let, and a contractor approved. Landowners signed 10-year maintenance agreements (copy attached) prior to construction. They also did the bulk of the planting and had a guide sheet (attached) provided by ACD who was also available for any questions or assistance needed. ACD also provided a one-page Maintenance Plan as landowners took on care of the gardens. The rain gardens were fully installed by the third week of October 2012.
F. Long-term Results
As both the stormwater pond and rain gardens are rolled into ongoing maintenance responsibilities for the City of Coon Rapids and the Coon Creek Watershed District, their effectiveness will be monitored as part of the CCWD annual monitoring plan. We anticipate a noticeable reduction in volume, Phosphorus, and Total Suspended Solids in Sand Creek as a result. Actual results will be reported in our annual Water Almanac each year.

Goals: The pond project is in Subcatchment-R1, the rain gardens in Subcatchment-R3:

<table>
<thead>
<tr>
<th>Site</th>
<th>TP (lbs/yr)</th>
<th>TSS (lbs/yr)</th>
<th>Volume (acre-feet/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-treatment</td>
<td>Goal</td>
<td>% Removal</td>
<td>Pre-treatment</td>
</tr>
<tr>
<td>SC-R1</td>
<td>19</td>
<td>9.3</td>
<td>49</td>
</tr>
<tr>
<td>SC-R3</td>
<td>120.5</td>
<td>6.1</td>
<td>5</td>
</tr>
</tbody>
</table>

Partnerships
This project was a great example of intergovernmental cooperation. Though most partnerships were already in place at project start they were definitely strengthened through this project. Some new introductions occurred with alliances between city departments (parks, street, water) and CCWD during the rain garden construction phase. And, certainly, new relations were created between participating rain garden landowners and the ACD and CCWD. The City of Fridley Springbrook Nature Center also benefitted from the excavated soil from the Xeon Pond donated the City of Coon Rapids. Agencies provided more funding and In-kind than anticipated, also, primarily in the rain garden component of the project: the City of Coon Rapids contributed an additional $5,000 and allowed for 2 rain gardens at an entrance to the Sand Creek Trail system, ACD and CCWD contributed additional In-kind staff time and ACD added cost-share dollars.

Lessons learned
We found two new contractors that we foresee putting on our shortlist for future projects. They, Fehn Companies and Landscape Direction, did quality work, gave good bids, and worked collaboratively as a team on the projects. The primary construction lesson was to locate water lines (and bury or insulate them) early in the rain garden design/construction process. Also, so better budgeting for cost inflation would be worthwhile in the future; this budget did not allow for increased costs adequately over the span of applying for the grant and implementing the project (example, the pretreatment chambers used for the rain gardens).

Feedback for MPCA
We really appreciate the upfront milestone payments for getting the project off the ground. We did find the financial agreement a bit inflexible regarding pay schedules to contractors and would request more flexibility in this area.
### 3. Final Expenditures

This is the same table as used in the PRJ07586 Work Plan budget.

<table>
<thead>
<tr>
<th>Objectives</th>
<th>Funding types</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Grant</td>
<td>Local cash</td>
</tr>
<tr>
<td>1. <strong>Element 4</strong> New stormwater treatment pond construction</td>
<td>$55,000</td>
<td>$64,693</td>
</tr>
<tr>
<td>2. <strong>Element 4</strong> Construction coordination for new stormwater pond</td>
<td>$1,900</td>
<td></td>
</tr>
<tr>
<td>(property agreements, bid letting, construction oversight, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. <strong>Element 2</strong> Rain garden promotion/outreach (promotional materials,</td>
<td>$910</td>
<td>$910</td>
</tr>
<tr>
<td>door-knocking, neighborhood informational meeting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. <strong>Element 2</strong> Rain garden designs (9 gardens)</td>
<td>$4,200</td>
<td>$2930</td>
</tr>
<tr>
<td>(9 gardens)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. <strong>Element 3</strong> Curb-cut rain garden construction materials/labor (10</td>
<td>$19,600</td>
<td>$31,684.97</td>
</tr>
<tr>
<td>gardens)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. <strong>Element 3</strong> Rain garden construction coordination (contractor RFP,</td>
<td>$2,240</td>
<td>$2,240</td>
</tr>
<tr>
<td>pre-bid mtg, pre-construction mtg, contractual agreements, construction</td>
<td></td>
<td></td>
</tr>
<tr>
<td>oversight, planting assistance)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. <strong>Element 1</strong> Administration (financial tracking, progress reporting,</td>
<td>$4,000</td>
<td>$4,000</td>
</tr>
<tr>
<td>and final report preparation per the terms of the grant agreement)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total of program objectives:</strong></td>
<td>$83,650</td>
<td>$103,727.97</td>
</tr>
</tbody>
</table>

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Sand Creek Stormwater Retrofit Project            Clean Water Partnership Grant PRJ07586            Final Report