



Grant All-Detail Report Projects and Practices 2014

Grant Title - Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal

Grant ID - C14-2565

Organization - Carlton SWCD

Grant Awarded Amount	\$81,791.00	Grant Execution Date	
Required Match Amount	\$20,447.75	Grant End Date	12/31/2016
Required Match %	25%	Grant Day To Day Contact	Melanie Bomier

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$81,791.00	\$81,791.00	\$0.00
Total Match Amount	\$30,000.00	\$30,000.00	\$0.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$111,791.00	\$111,791.00	\$0.00

**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	Match
Michaelson Dam Repair	Streambank or Shoreline Protection	Current State Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Thro..	\$38,361.00	\$43,361.00	12/14/2016	N

Activity Name	Activity Category	Source Type	Source Description	Budgeted	Spent	Last Transaction Date	Match
Phase II Red Clay Dam: Skunk Creek Watershed Erosion Control	Streambank or Shoreline Protection	Federal Funds	Great Lakes Commission	\$30,000.00	\$30,000.00	9/28/2016	Y
Project Management	Administration /Coordination	Current State Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Thro..	\$8,530.00	\$9,461.51	12/14/2016	N
Restoration- Biding	Planning and Assessment	Current State Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Thro..	\$2,750.00	\$1,992.60	10/27/2016	N
Restoration- Develop Plans	Technical/Engineering Assistance	Current State Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Thro..	\$11,650.00	\$10,427.81	10/27/2016	N
Restoration- Inspection	Technical/Engineering Assistance	Current State Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Thro..	\$7,200.00	\$6,176.43	10/27/2016	N
Restoration- Permitting	Project Development	Current State Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Thro..	\$5,450.00	\$3,743.85	10/27/2016	N
Restoration- Survey	Technical/Engineering Assistance	Current State Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Thro..	\$7,850.00	\$6,627.80	10/27/2016	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
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Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Michaelson Dam Repair Cost	PHOSPHORUS (EST. REDUCTION)	90.16 LBS/YR	Deer Creek subwatershed	BWSR CALC (STREAM & DITCH	

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
Michaelson Dam Repair Cost	SOIL (EST. SAVINGS)	78.4 TONS/YR	Deer Creek subwatershed	BWSR CALC (STREAM & DITCH STABILIZATION)	STABILIZATION)
Michaelson Dam Repair Cost	SEDIMENT (TSS)	78.4 TONS/YR	Deer Creek subwatershed	BWSR CALC (STREAM & DITCH STABILIZATION)	STABILIZATION)

Final Indicators Summary

Indicator Name	Total Value	Unit
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Grant Activity

Grant Activity - Michaelson Dam Repair			
Description	Deer Creek Tributary will be restored to natural condition. Project also includes riparian buffer establishment. Licensed TSA 3 Engineer and Technician will survey and design restoration. Both the Engineer and project technician have had natural Channel Design training and will apply those methods to this restoration. Carlton SWCD staff will design riparian buffer and acquire all necessary permits. Funds will cover construction cost for Deer Creek restoration.		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	15-Aug-15	End Date	12-Oct-16
Has Rates and Hours?	No		
Actual Results	The Deer Creek tributary was restored to it's natural condition. TSA engineers and technicians applied Natural Channel Design methods for this project. The project was granted all required permits. A riparian buffer was planted. Moved unused funds from SWCD staff time to construction costs.		

Grant Activity - Phase II Red Clay Dam: Skunk Creek Watershed Erosion Control			
Description	Phase II Red Clay Dam: Skunk Creek Watershed Erosion Control		
Category	STREAMBANK OR SHORELINE PROTECTION		
Start Date	1-Jul-15	End Date	14-Oct-16
Has Rates and Hours?	No		
Actual Results	Discussed stream restoration with red clay dam land owners. Rough designs were completed for all projects.		

Grant Activity - Project Management			
Description	Administrative expenses for grant including time tracking, financial management and grant reporting. Primary project manager will be Water Resources Technician.		
Category	ADMINISTRATION/COORDINATION		
Start Date	10-Mar-14	End Date	15-Dec-16
Has Rates and Hours?	Yes		
Actual Results	All required administrative work for the project was completed, including financial management and reporting. Moved extra funds from other activities to this activity.		

Grant Activity - Restoration- Biding			
Description	Pre-bid meeting, will host anticipated 2-8 contractors to attend. The meeting will last 2 hours, on site, discussing the plans, access, any additional questions, etc. Reconstruction meeting will be held with selected contractor and potential progress meetings will also be held. Engineer and Water resources technician will attend all meetings, SWCD manager will attend one meeting. These meetings will cover requirements and specific environmental priorities of the project.		
Category	PLANNING AND ASSESSMENT		
Start Date	1-Jan-15	End Date	22-Jul-16
Has Rates and Hours?	Yes		
Actual Results	Bidding documents were submitted to QuestCDN due to project costs and state rules. A pre-bid meeting was scheduled and attended by 2 contractors. A pre-construction meeting was also held.		

Grant Activity - Restoration- Develop Plans			
Description	Licensed TSA 3 Engineers and Engineer Technicians will develop the construction plan for the natural channel design restoration. Engineer and technicians have completed natural channel design plans and are familiar with the project, they have also completed levels 1-3 of Rosgen natural channel design method.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Jun-14	End Date	06-Jul-16
Has Rates and Hours?	Yes		
Actual Results	Engineers started designs for the project and conducted a field check.		

Grant Activity - Restoration- Inspection			
Description	On site inspection during construction will include TSA Engineer, Engineer Technician and SWCD Staff. One of these staff members will be overseeing the construction during the project construction phase. Full time inspection by Carlton SWCD staff and TSA3 staff as needed.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Aug-15	End Date	21-Oct-16
Has Rates and Hours?	Yes		
Actual Results	TSA with some assistance from SWCD staff, completed with construction inspection.		

Grant Activity - Restoration- Permitting			
Description	Restoration construction will occur on a designated protected tributary, which will require special permitting for trout habitat and wetlands impacts. Will need DNR Public Waters Permit, potentially Army Corps of Engineers, and County permits.		
Category	PROJECT DEVELOPMENT		
Start Date	1-Nov-14	End Date	25-Jul-16
Has Rates and Hours?	Yes		
Actual Results	Completed EAW. Worked with NHIS and SHPO as part of the EAW. Conducted wetland determination. Worked with county and Army Corps of Engineers, BWSR and Carlton County on wetland permit. Completed DNR Public Waters permit and Carlton County shoreland and wetland permits. Completed required archeological site evaluation.		

Grant Activity - Restoration- Survey

Description	Survey tasks include Topographic survey, Environmental Data Collection, and Reference Reach Survey. Survey will be completed by TSA3 Engineer, Engineer Tech, and Water Resources Technician.		
Category	TECHNICAL/ENGINEERING ASSISTANCE		
Start Date	1-Jun-14	End Date	22-Jul-16
Has Rates and Hours?	Yes		
Actual Results	Required survey work was completed by TSA with assistance from the Carlton SWCD.		

Grant Attachments

Document Name	Document Type	Description
2014 Competitive Grant	Grant Agreement	2014 Competitive Grant - Carlton SWCD
2014 Competitive Grant executed	Grant Agreement	2014 Competitive Grant - Carlton SWCD
50% Financial Report	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 02/04/2015
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/26/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/14/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 04/01/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/14/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/14/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 12/14/2016
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2015
Application	Workflow Generated	Workflow Generated - Application - 10/04/2013
Archeological Survey Receipt	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
As Built	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Contract Amendment	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
County Permit Receipts	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal

Document Name	Document Type	Description
DNR Public Waters Permit Receipt	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Feb. 2016 update	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Final Financial Report-Signed	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
First Invoice Construction	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Mailing Costs - EAW	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Post Construction Photo	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
SR_loc_10628.jpg	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Second Contractor Invoice	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Stream Restoration Site	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Superior Construction Check 12/12/2016	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
TSA Check 12/12/2016	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
TSA Engineering Invoice	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Voucher	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/20/2014
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 01/23/2014
grantmap_10628_2013-10-02_02-42-37-PM.jpg	Grant	Phase II Red Clay Dam: Deer Creek Tributary Restoration Through Aging Sediment Retention Structure Removal