



Grant All-Detail Report

Multipurpose Drainage Management 2017

Grant Title - County Ditch #6 BMPs

Grant ID - C17-2876

Organization - Carver SWCD

Original Awarded Amount	\$120,935.00	Grant Execution Date	4/11/2017
Required Match Amount	\$30,233.75	Original Grant End Date	12/31/2019
Required Match %	25%	Grant Day To Day Contact	Mike Wanous
Current Awarded Amount	\$120,935.00	Current End Date	12/31/2019

Budget Summary

	Budgeted	Spent	Balance Remaining*
Total Grant Amount	\$120,935.00	\$51,943.25	\$68,991.75
Total Match Amount	\$30,234.00	\$0.00	\$30,234.00
Total Other Funds	\$0.00	\$0.00	\$0.00
Total	\$151,169.00	\$51,943.25	\$99,225.75

**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
County Ditch #6 BMPs	Agricultural Practices	Current State Grant	County Ditch #6 BMPs	\$110,035.00	\$48,818.25	12/27/2018	N
Grant Match	Agricultural Practices	Local Fund	Local match from WMO, Ditch system, SWCD and landowners	\$30,234.00			Y
TA for BMP's	Agricultural Practices	Current State Grant	County Ditch #6 BMPs	\$10,900.00	\$3,125.00	12/17/2018	N

Activity Details Summary

Activity Details	Total Action Count	Total Activity Mapped	Proposed Size / Unit	Actual Size / Unit
638 - Water and Sediment Control Basin	2		2 COUNT	COUNT
412 - Grassed Waterway and Swales	7	7	8250 LINEAR FEET	8520 LINEAR FEET
410 - Grade Stabilization Structure	6		6 COUNT	COUNT

Proposed Activity Indicators

Activity Name	Indicator Name	Value & Units	Waterbody	Calculation Tool	Comments
County Ditch #6 BMPs	PHOSPHORUS (EST. REDUCTION)	8.5 LBS/YR	Bevens Creek	BWSR CALC (SHEET AND RILL)	
County Ditch #6 BMPs	PHOSPHORUS (EST. REDUCTION)	11.4 LBS/YR	Bevens Creek	BWSR CALC (GULLY STABILIZATION)	
County Ditch #6 BMPs	SEDIMENT (TSS)	10.5 TONS/YR	Bevens Creek	BWSR CALC (GULLY STABILIZATION)	
County Ditch #6 BMPs	SEDIMENT (TSS)	32.1 TONS/YR	Bevens Creek	BWSR CALC (SHEET AND RILL)	

Final Indicators Summary

Indicator Name	Total Value	Unit
SEDIMENT (TSS)	80.30	TONS/YR
PHOSPHORUS (EST. REDUCTION)	85.80	LBS/YR

Grant Activity

Grant Activity - County Ditch #6 BMPs			
Description	This is the estimated costs of installing 6 grade control structures, 2 water & sediment control basins, and 5 grassed waterways as described in this grant application. See budget sheet for activity breakdown.		
Category	AGRICULTURAL PRACTICES		
Start Date	1-Oct-18	End Date	28-Sep-18
Has Rates and Hours?	No		
Actual Results	<p>12/20/18: Grassed WW 1-2: [Contract: CD6-CWF-01]. WW1 is 960' long, with a 16' Bottom width and 995' of perforated 5" tile. In addition to waterway shaping a rock lined scour hole (tile intake with rock) was installed to provide outlet protection and reduce runoff velocities. WW2 is 820' in length with a 14' Bottom width and 855' of perforated 5" tile. This is an extension of a previously constructed waterway that will tie into a larger waterway that will be constructed in the future. Waterway velocities of these waterways exceed 2.5 cfs and required single sided straw erosion blanket to protect the waterway from erosion. The 5" perforated tile installed adjacent to the waterway bottoms connected to existing tile that is in the field.</p> <p>Grassed waterways 3-4: [Contract: CD6-CWF-02]. WW3 is 965' long with an 18' Bottom width and 970' of perforated 5" tile. WW4 is 628' long with a 10' Bottom width and 1,280' of perforated 5" tile. At the junction of WW3 (Sta. 15+20) the waterway will be widened to an 18' Bottom width to accept the water from that waterway. Waterway velocities of these waterways exceed 2.5 cfs and will require single sided straw erosion blanket to protect the waterway from erosion. The 5" perforated tile adjacent to the waterway bottoms will outlet into CD6.</p> <p>Grassed Waterway 5, 6, 7: [Contract: CD6-CWF-03]. WW5 is 702' long with a 14' bottom width and 690' of perforated 5" tile. WW6 is 370' in length with a 10' Bottom width and 375' of perforated 5" tile. WW7 is 1,503' long with a 16' Bottom width. Junctions of WW6 (Sta. 19+93) and WW5 (Sta. 21+50) will be made to accept the water from those waterways. Where waterway velocities exceed 2.5 cfs, a single sided straw erosion blanket will be needed to protect the waterway from erosion. Portions of WW7 and all of WW6 will have disc crimped mulch installed to protect the waterway bottoms. The 5" perforated tile adjacent to waterway 5 and 6 will connect to existing tile that is in the field.</p>		

Activity Action - BMP WASCOB			
Practice	638 - Water and Sediment Control Basin	Count of Activities	2
Description			
Proposed Size / Units	2.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Mapped Activities	No		

Activity Action - BMP WW			
Practice	412 - Grassed Waterway and Swales	Count of Activities	7
Description	<p>The purpose of this project is to construct 7 grassed waterways totaling 8,520 linear feet to address gully erosion that is occurring in the cropland areas at the head of County Ditch 6 (CD6)</p> <p>Construction sequencing will consist of doing this project in phases from Spring of 2018 to Spring of 2019 between crops. An estimated annual loss of 80.3 tons of sediment and 85.8 lbs of phosphorus will be reduced from entering CD 6 as a result of this project. Waterway shaping will consist of 10' to 18' bottom widths in addition to 5" subsurface drain tile to keep bottom widths from remaining saturated.</p>		
Proposed Size / Units	8,250.00 LINEAR FEET	Lifespan	10 Years
Actual Size/Units	8,520.00 LINEAR FEET	Installed Date	23-Oct-18
Mapped Activities	7 Polygon(s)		

Final Indicator for BMP WW			
Indicator Name	PHOSPHORUS (EST. REDUCTION)	Value	85.8
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) LBS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Bevens Creek		
Final Indicator for BMP WW			
Indicator Name	SEDIMENT (TSS)	Value	80.3
Indicator Subcategory/Units	WATER POLLUTION (REDUCTION ESTIMATES) TONS/YR	Calculation Tool	BWSR CALC (FILTER STRIP)
Waterbody	Bevens Creek		

Activity Action - BMP Gr. St.			
Practice	410 - Grade Stabilization Structure	Count of Activities	6
Description			
Proposed Size / Units	6.00 COUNT	Lifespan	10 Years
Actual Size/Units	COUNT	Installed Date	
Mapped Activities	No		

Grant Activity - Grant Match			
Description	Grant Match		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Has Rates and Hours?	No		
Actual Results			

Grant Activity - TA for BMP's			
Description	technical assistance provided for getting the BMP's on the ground.		
Category	AGRICULTURAL PRACTICES		
Start Date		End Date	
Has Rates and Hours?	Yes		
Actual Results	12/17/2018: Professional engineer hired to design Hiram Grimm project (25 hours at \$125/hour).		

Grant Attachments

Document Name	Document Type	Description
2017 Competitive Grant	Grant Agreement	2017 Competitive Grant - Carver SWCD
2017 Competitive Grant executed	Grant Agreement	2017 Competitive Grant - Carver SWCD
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/24/2018
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 01/29/2019
All Details Report	Workflow Generated	Workflow Generated - All Details Report - 03/28/2018

Document Name	Document Type	Description
Application	Workflow Generated	Workflow Generated - Application - 08/08/2016
Budget worksheet	Grant	County Ditch #6 BMPs
PTM map	Grant	County Ditch #6 BMPs
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 03/22/2017
Work Plan	Workflow Generated	Workflow Generated - Work Plan - 12/14/2016
grantmap_17053_2016-08-08_11-04-30-AM.jpg	Grant	County Ditch #6 BMPs