Grant Progress Report

FY26 Water Quality and Storage Program 2026

Grant Title: Anderson Farms - JD 12 LL, Off Channel Storage 2025
Grant ID: C26-0004
Grantee: Lyon SWCD
Fiscal Agent: Lyon SWCD
Grant Day-to-Day Contact: Anita Cauwels

Grant Award ($): $45,986.00
Required Match (%): 10
Required Match ($): $4,598.60

Grant Execution Date: 09/22/2025
Grant End Date: 12/31/2028

	Total Budgeted	**Total Spent**	Balance Remaining*
Grant Funds	$45,986.00	**$0.00**	$45,986.00
Match Funds	$4,598.60	**$0.00**	$4,598.60
Other Funds	$0.00	**$0.00**	$0.00
Total	$50,584.60	**$0.00**	$50,584.60

***Grant balance remaining is the difference between the Awarded Amount and the Spent Amount. Other values compare budgeted and spent amounts.**

Project Abstract	The drainage authority for Joint Ditch 12 Lincoln and Lyon Counties (JD 12 LL) and Lyon Soil and Water Conservation District (Lyon SWCD) proposes building an access road in lieu of replacing a bridge. Temporary floodwater storage is being incorporated into this new road. Minnesota Statutes 103E.526 allows a drainage authority to construct an access road instead of a bridge if the project is cost-effective and rational. The proposed access road will be constructed parallel to JD 12 LL and would replace an existing deficient timber bridge crossing. Without construction of a field road, the only possible field access point is off US Hwy 14 posing a major safety concern for drivers on the highway and for the land occupier during farming operations. The preliminary design for this project consists of raising the grade of the spoil bank on the south side of the ditch which would result in the creation of the access road and a stormwater retention area. JD 12 LL requested Area II Minnesota River Basin Projects (Area II) to determine the potential of water storage provided from the construction of this access road. Area II delineated a preliminary watershed from Lidar topographic maps and used HydroCAD software to calculate flow reductions and

	to create the 10-yr and 100-yr hydrographs. The preliminary watershed is estimated to be 112 acres. The existing conditions for this retention basin consist of an unfarmed depressional area, draining from southwest to northeast, into the ditch system through a washed-out culvert in the ditch bank. The intent would be to fill and build up this washed-out area for temporary ponding to occur south of the ditch. This temporary impoundment would store 11.3 acre-feet of stormwater for 14 hours, meter out the flow to JD 12 LL, minimize downstream flooding, eliminate the erosion from this depressional area, and reduce sediment load and excess phosphorus from entering the Redwood River approximately 4.5 miles downstream. A 30-inch culvert would be installed through the access road and will discharge to the open ditch. Based on the preliminary design, this culvert will serve as the control structure and it may be possible to add a riser structure or change the intake configuration to improve storage characteristics during the final design process.
Proposed Measurable Outcomes	The preliminary design for this retention project shows 6.0 acre-feet of storage volume for 15 hours for a 10-yr storm, while the 100-yr projection shows 11.3 acre-feet of storage for 14 hours. Sediment and Phosphorus reductions are estimated at 146 pounds per year. Outcomes will minimize downstream flooding, eliminate the erosion from this depressional area, and reduce sediment load and excess phosphorus from entering the Redwood River approximately 4.5 miles downstream.

Budget Details

Activity Name	*Category*	*Source Type*	*Source Description*	*Budgeted*	*Spent*	*Balance Remaining*	*Match Fund?*
Retention Project	Agricultural Practices	Local Fund	Match	$4,598.60		$4,598.60	Y
Retention Project	Agricultural Practices	Current State Grant	Anderson Farms - JD 12 LL, Off Channel Storage 2025	$34,986.00		$34,986.00	N
Easements	Agricultural Practices	Current State Grant	Anderson Farms - JD 12 LL, Off Channel Storage 2025	$2,300.00		$2,300.00	N
Engineering	Technical/Engineering Assistance	Current State Grant	Anderson Farms - JD 12 LL, Off Channel Storage 2025	$8,700.00		$8,700.00	N

Indicator Summary

Indicator Category	*Proposed Indicator*	*Total Value*	*Unit*
Water Pollution (Reduction Estimates)	Phosphorus (Est. Reduction)	146	Lbs/Yr
Water Pollution (Reduction Estimates)	Sediment (Tss)	146	Tons/Yr

Indicator Category	*Final Indicator*	*Total Value*	*Unit*

Grant Activities

Activity Name: Easements

Activity Category: Agricultural Practices | **Staff time?:** No

Description: Flowage and Permanent Construction Easements total 7.45 acres ($2,300)

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Anderson Farms - JD 12 LL, Off Channel Storage 2025	$2,300.00		$2,300.00		N

Activity Name: Engineering

Activity Category: Technical/Engineering Assistance | **Staff time?:** No

Description: Final Engineering, Drafting and Wetland Delineation

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Anderson Farms - JD 12 LL, Off Channel Storage 2025	$8,700.00		$8,700.00		N

Activity Name: Retention Project

Activity Category: Agricultural Practices | **Staff time?:** No

Description: Culvert Removal & Disposal, Embankment, New Culvert, Seeding, Mulching, Gravel.

Budget Details

Source Type	Source Description	Budgeted	Spent	Balance Remaining	Last Transaction Date	Match Fund?
Current State Grant	Anderson Farms - JD 12 LL, Off Channel Storage 2025	$34,986.00		$34,986.00		N
Local Fund	Match	$4,598.60		$4,598.60		Y