

Florida Consolidated Ditch Company

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970-749-9800

April 30th 2025

Ben Wade, Principal Grants Coordinator
1313 Sherman St. Rm. 718
Denver, CO 80203

Re: Pastorius Reservoir Headgate Replacement – WSRF Grant – POGG1 2024-2481

Mr. Wade,

We are pleased to inform you that this project has been completed. Florida Consolidated Ditch Company (FCDC) is submitting the Final Report and requesting reimbursement of \$46,275.00 upon approval of the Final Report. Please Contact us with any questions.



Jason T. Cole
FCDC Manager
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Pastorius Headgate Replacement Final Report

Project Summary

Initially the Pastorius headgate installation was to occur in the spring of 2024 before the irrigation season. The decision was made to delay until after the irrigation season in the fall for two main reasons. The first being that a check dam would have to be constructed to hold back the 3.5' of water. It was made clear that the concrete needed to be completely dry for the installation. FCDC operations felt that it would be unlikely that some seepage would not occur. The installation of the check dam would have overrun costs as it was about \$13,000 estimate to construct and remove and we didn't see that the previous FCDC management had accounted for a check dam. Secondly, if there were any major issues that would have prevented completion it would have delayed the start of the irrigation season.

Construction

Prior to installation FCDC crews dropped reservoir level until there was about 10" of water in the canal channel. 4'x4'x3" sandbags were used to dam the water off. FCDC removed the old head gate with the utilization of a neighboring shareholders telehandler. On Oct 8th Rubicon technicians showed up and began installing the frame/bracket that holds the headgate. On Oct 9th FCDC removed the fencing and the headgate itself was installed. The tin on the shed next to the head gate had to be removed as there was about 2" that was in the way as we had to lower the headgate from above to slide into the brackets. The landings were installed, and chain-link fence reinstalled. The headgate was commissioned, and the project was complete by 6 pm Oct 9th. On the morning of Oct 10th FCDC and removed the sandbags.

After the fall stock run we noticed that the splash pad would need to be extended. Due to the headgate size, it creates a plunge pool just beyond the edge of the existing concrete. While during normal high flow it's not much of a concern because the channel is full of water. When the canal is at lower flows the plunge pool scoured heavily, this was apparent when we ran the fall stock water run.

Operation

The headgate got its first test when we ran our fall stock water run in November. As we had the reservoir at a low level to install the headgate, we had to replenish the reservoir all the while delivering stock water. The new automation allowed FCDC operations to enter preset positions and raise the gate 2" every hour. This allowed FCDC to fill the reservoir and deliver stock water without going to site and making those adjustments saving time and water. FCDC was able to fill the reservoir without running the canal system for extra days to do so.

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Figure 1 Power washing concrete to remove loose debris/organics a week ahead of time to allow time for concrete to dry thoroughly.



Figure 2 Anchored and sealed bracket into place on Oct.8th.

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Figure 3 Lowering headgate into bracket on Oct 9th



Figure 4 Pastorius headgate installed and commissioning completed Oct 9th.

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Figure 5 Pastorius headgate in operation Nov 11. during the fall stock water run .



Figure 6 Extending concret splash pad March 2025

Matching Funds Tracking Sheet

Task	Description	Total Budget/Match Funds	Previous Match	Current Match	Remaining Total	Cash or In- Kind?
1	56 Staff Hours x \$65/hr labor rate	\$0	\$0	\$3,640	-\$3,640.00	
1	Construction	\$15,425	\$0	\$26,676	-\$11,251.32	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
					\$0.00	
	TOTALS	15,425.00	0.00	30,316.32	-14,891.32	