

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: CENTENNIAL D

Reported By: Daniel Boyes

Date: April 1, 2019

Headgate	Latitude	Longitude
Location:	37.57236667	-106.07145

Headgate Type: One automated and one manually operated 5' wide steel slide gates (2)

Headgate Condition:	A <input checked="" type="checkbox"/>	Diversion and Other Condition:	A <input type="checkbox"/>	River Miles from New Mexico State Line (Point of Diversion):	Structure Submerged: Yes <input type="checkbox"/>
	B <input type="checkbox"/>		B+ <input checked="" type="checkbox"/>		No <input checked="" type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>		
	D <input type="checkbox"/>		D <input type="checkbox"/>	77.41 mi	
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Repair(s) or Improvement(s) Completed Since 2006: A new grouted rock diversion dam and rock weir were installed in 2018 in partnership with the RGHRP, NRCS, and the ditch company as part of the Five Ditches Project. One of the two headgates was automated.

Structure Description: The diversion dam for this structure was designed to be a partial barrier to nonnative fish movement upstream. It allows for boat passage while also creating adequate head pressure during low flows as well as adjustment capabilities for a range of higher flows. It includes an adjustable gate controlled by an air bladder. A rock weir was installed downstream of the diversion to prevent scour downstream of the diversion and to stabilize the adjacent streambanks. Native riparian vegetation was also planted as part of this project. The diversion dam directs water to the headgates which function very well. One of the two headgates is automated. The measurement weir was also recently improved and functions well.

Repair(s) or Improvement(s) Currently Needed: Despite recent improvements, the channel is unstable both upstream and downstream of the diversion dam. Immediately upstream of the diversion, the meanders are tightening and, during a high flow event, the meander could be cut off. If this occurs, it would cause the diversion to also be cut off. The SMP Technical Advisory Team (TAT) recommends monitoring the risk of a meander cutoff given its potential impact on this structure.

Comments: This ditch includes priorities 32 and 173. Colorado Parks and Wildlife staff report difficulty in diverting their full decree, especially early in the season, because the ditch is running too low and other water rights owners are not yet in priority.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Aerial view of diversion structure



Diversion dam looking north



Diversion dam looking upstream



Ditch downstream of headgate



Measurement flume

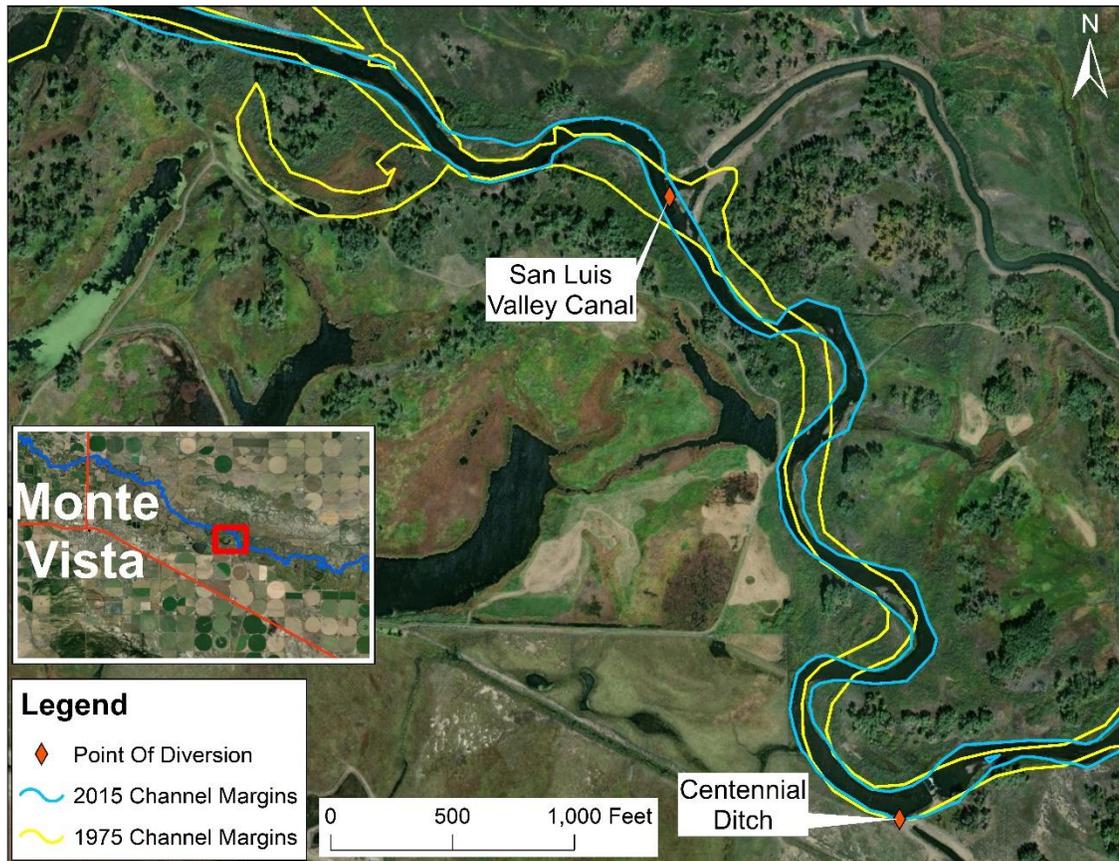


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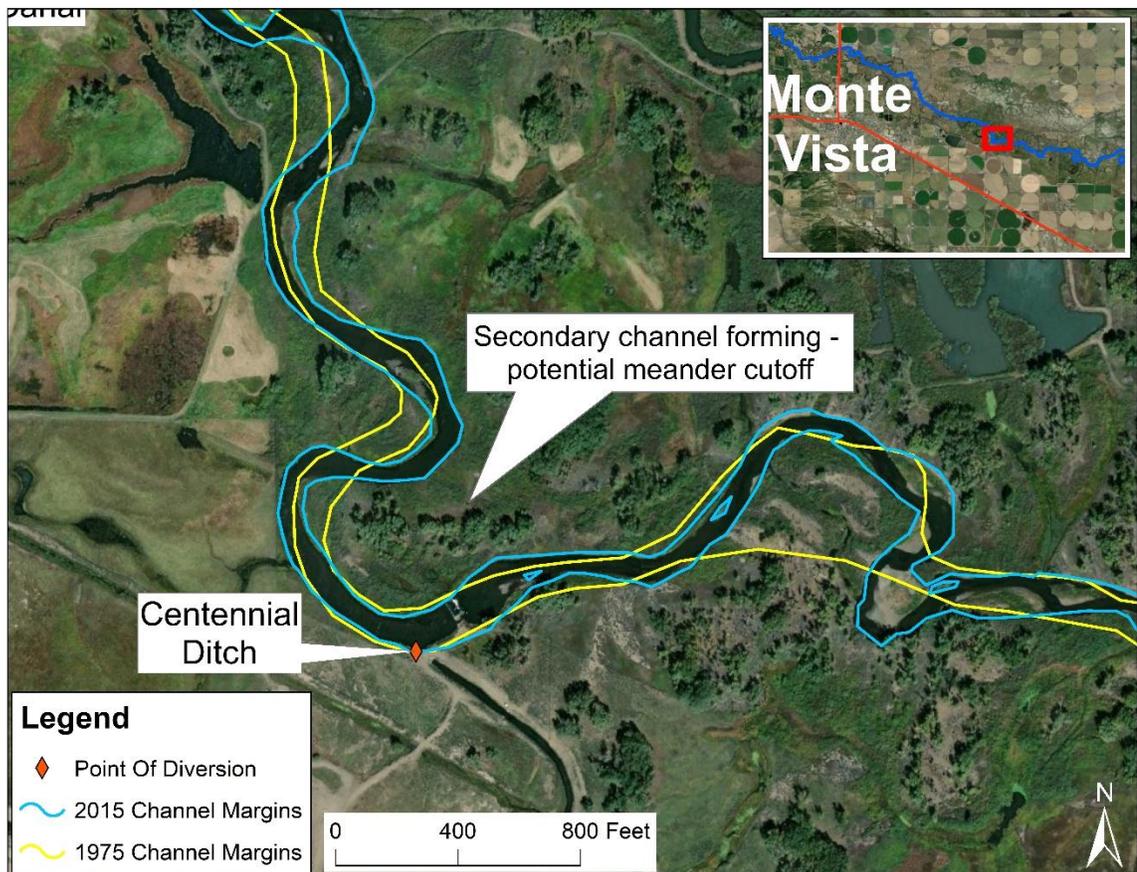
CENTENNIAL DITCH

PHOTO LOG

Rio Grande Stream
Management Plan



Centennial Ditch headgate with 1975 and 2015 channel margins overlaid



Zoomed image of Centennial Ditch headgate 1975 and 2015 channel margins overlaid. Approximate location of secondary channel and potential meander cutoff also shown.



Photo taken June 18, 2019 showing high water at Centennial Ditch, looking downstream. Arrow indicates the approximate path of the secondary channel.



Photo taken June 3, 2019 showing high water at Centennial Ditch, looking upstream. Arrow indicates the approximate path of the secondary channel.