

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: MCINTOSH ARROYA D

Reported By: Daniel Boyes

Date: April 9, 2019

Headgate	Latitude	Longitude
Location:	37.656964	-106.282098

Headgate Type: Manually operated 2' wide steel slide gate

Headgate Condition:	A <input 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 checked="" type="checkbox"/>		C <input type="checkbox"/>	95.14 mi	
	D <input type="checkbox"/>		D <input type="checkbox"/>		
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Repair(s) or Improvement(s) Completed Since 2006: None

Structure Description: This is the only structure located on the South Channel of the Rio Grande. There is no formal diversion dam, but an island and a small riffle helps divert water from the river to a feeder channel on the south bank of the river. The channel in this part of the river is unstable. The meander on which the diversion is located has been moving north and has tightened over time. In the future, this may result in the river reclaiming its historic channel, which would create challenges for the ditch, as it currently follows portions of the historic river channel. The feeder channel is approximately 0.5 miles long and delivers water to the headgate. The feeder channel then meanders back to the river, serving as the return flow channel.

Repair(s) or Improvement(s) Currently Needed: The headgate leaks and, according to the 2006 inventory, the headwall was replaced approximately 23 years ago. Woody debris accumulation, especially in the feeder channel and near the headgate, is also an issue. The flume is functional, however the channel is beginning to erode at its downstream end. Given these issues, the SMP Technical Advisory Team (TAT) recommends headgate repair or full replacement, installation of a trash rack or relocation of the headgate closer to the point of diversion, and flume repairs. Alternatively, the entire structure could be relocated to a more desirable point of diversion, which would reduce maintenance and allow for other restoration efforts on the South Channel.

Comments: This ditch includes priorities 83 and 215.

Notes:

Estimated Range of Cost: Medium

Headgate looking downstream



Headgate outlet



Rio Grande upstream of diversion dam



Diversion dam



Flume looking downstream



Flume looking upstream

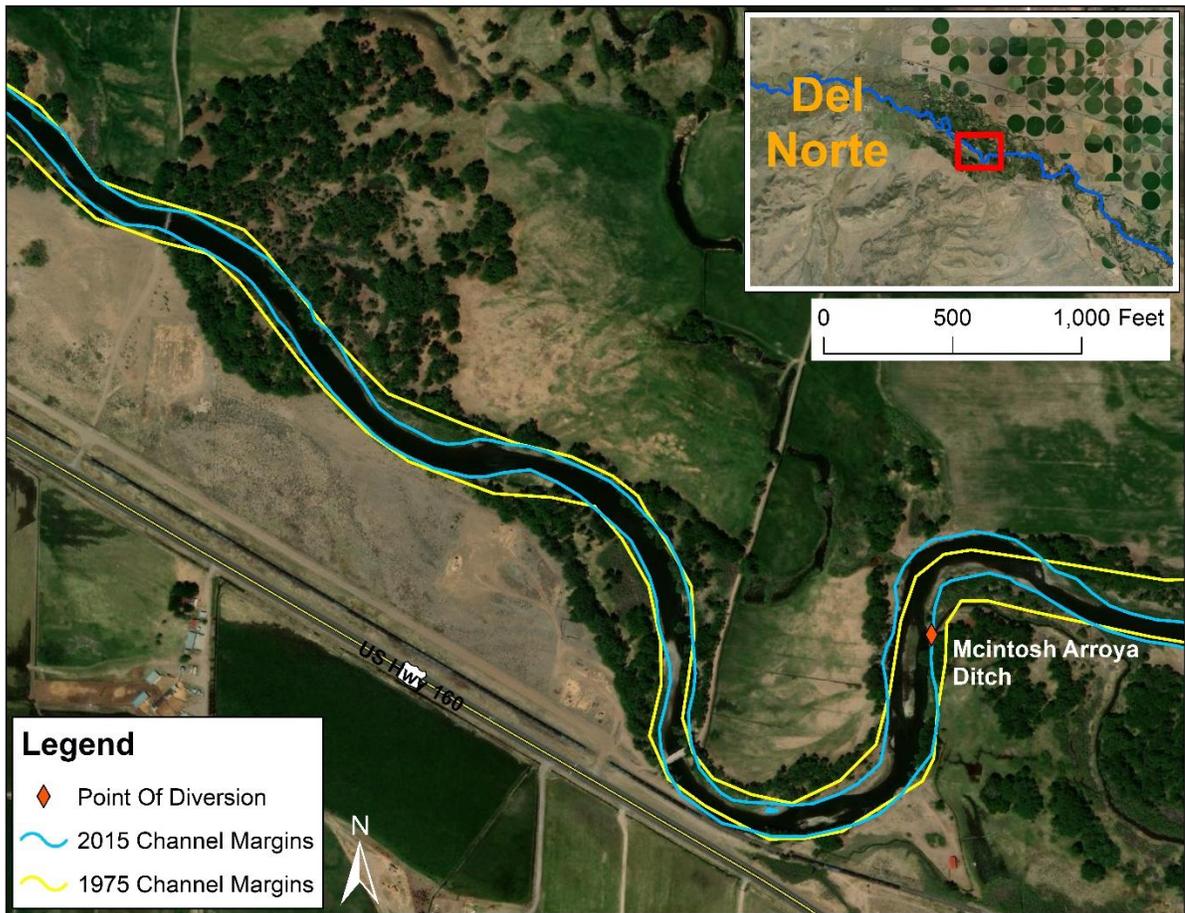


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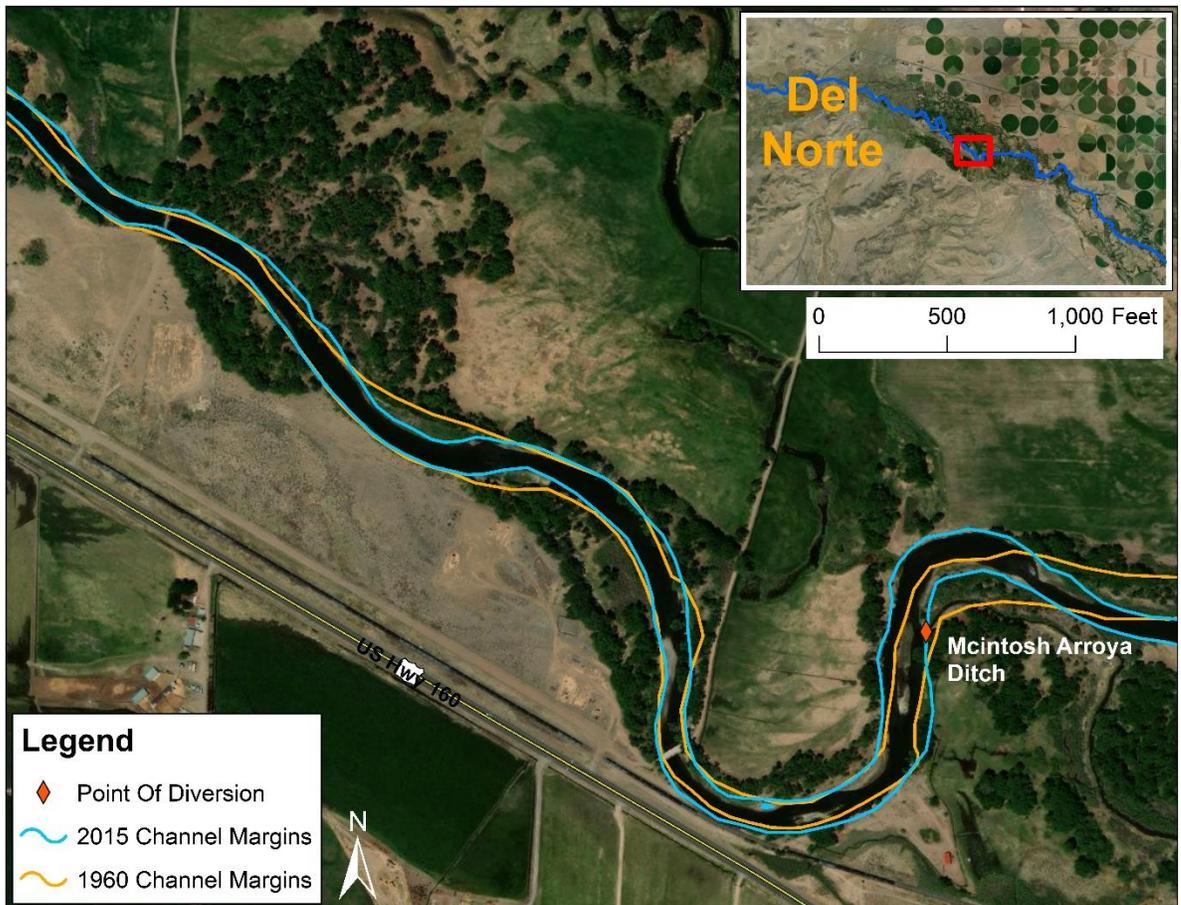
MCINTOSH ARROYA DITCH

PHOTO LOG

**Rio Grande Stream
Management Plan**



Map showing structure's headgate location with 1975 and 2015 channel margins overlaid.



Map showing headgate location with 1960 and 2015 channel margins overlaid.