

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: NICHOL D

Reported By: Daniel Boyes

Date: April 1, 2019

Headgate	Latitude	Longitude
Location:	37.60408333	-106.16221667

Headgate Type: Manually operated 3' 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 checked="" type="checkbox"/>		B <input checked="" type="checkbox"/>		No <input checked="" type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>	85.0 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: There is no formal diversion dam for this structure. Water flows into a feeder channel located on the south bank of the Rio Grande. The feeder channel travels approximately 0.25 mile to the headgate. The headgate and flume function well. At the point of diversion, the river is migrating northeast, away from the feeder channel entrance. As a result, a small point bar is forming at the point of diversion, resulting in access and maintenance issues for the ditch.

Repair(s) or Improvement(s) Currently Needed: To reduce maintenance and ensure long-term function, the SMP Technical Advisory Team (TAT) recommends installing an improved diversion dam. A small stacked rock structure would likely function well for water diversion and could also be used to restore the cut bank on the north bank of the river and create additional fish habitat.

Comments: This ditch includes priorities 138 and 192. The coordinates for the point of diversion are: 37.605673, -106.165847.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Headgate outlet



Point of diversion and feeder ditch



Adjustment gate below main headgate



Flume looking downstream



Flume looking upstream

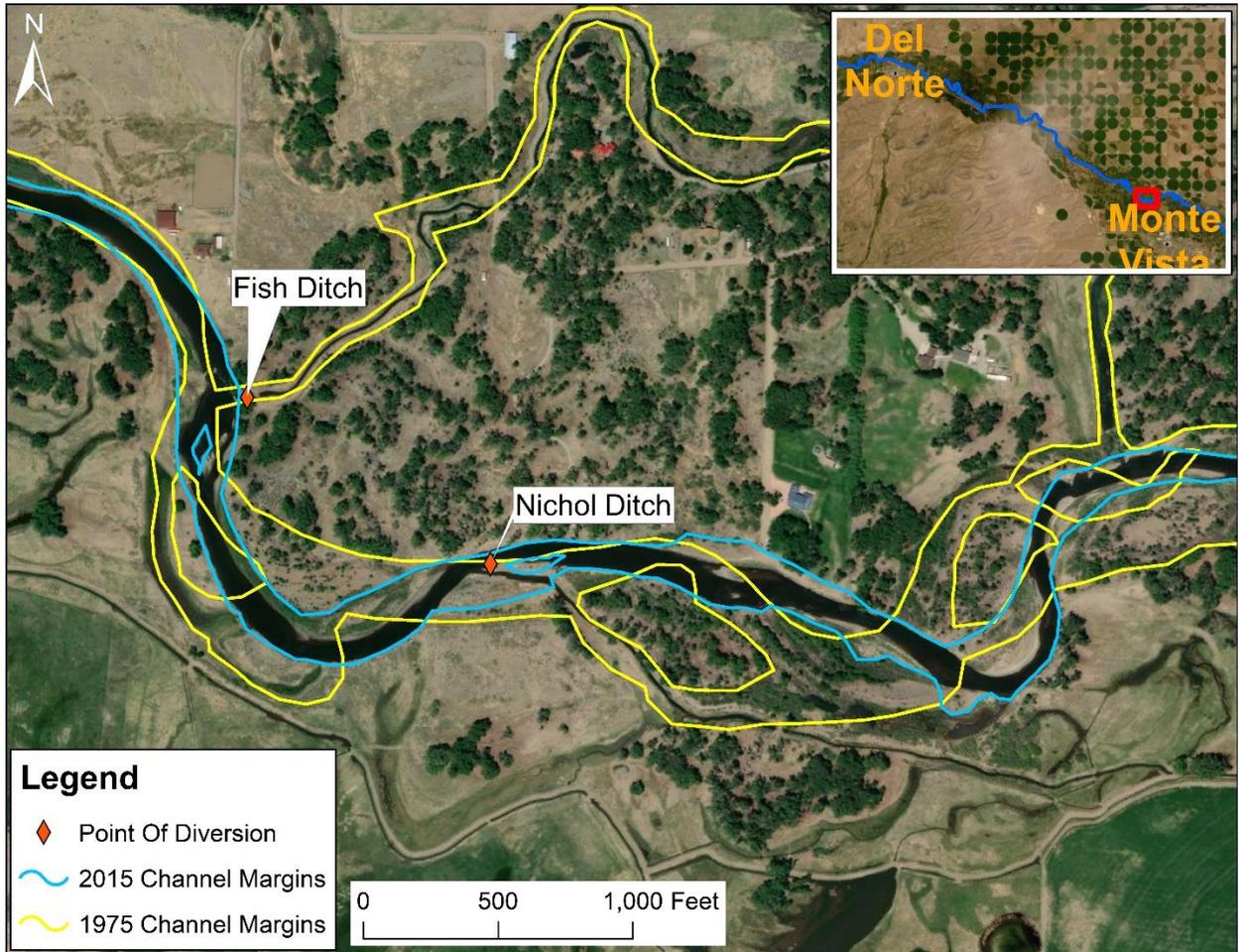


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NICHOL DITCH

PHOTO LOG

**Rio Grande Stream
Management Plan**



Nichol Ditch point of diversion and headgate location with 1975 and 2015 channel margins overlaid. illustrating channel migration away from the point of diversion