

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: ATKINS D

Reported By: Daniel Boyes

Date: May 7, 2019

Headgate	Latitude	Longitude
Location:	37.68455	-106.43486667

Headgate Type: Manually operated 2' wide steel slide gate

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 checked="" type="checkbox"/>
	B <input type="checkbox"/>		B <input checked="" type="checkbox"/>		No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>	106.81 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: This structure's diversion was improved in 2009 and is now a stacked rock structure with boulders anchored on the south bank of the river, similar to a J-Hook.

Structure Description: The diversion directs water from the Rio Grande to a short feeder channel located on the north bank of the river. The feeder channel, a small rock diversion dam, directs flow to the headgate. The headgate was replaced about six years ago and functions well. The feeder channel returns to the river just downstream of the headgate. As the channel has migrated away from the point of diversion, a gravel bar has been forming at the mouth of the feeder channel and gravel material continually needs to be removed for the structure to access its full decree. See photo in report card labeled, "diversion dam and feeder channel on Rio Grande." The south bank has also experience erosion as a result of channel migration. The channel migration away from the point of diversion may cause the diversion dam to function less effectively and/or require repairs in the future.

Repair(s) or Improvement(s) Currently Needed: Given these current and potential future challenges, the SMP Technical Advisory Team (TAT) recommends bank stabilization on the south bank and possible diversion dam improvements or diversion relocation if channel migration accelerates. Bank stabilization would mitigate lateral channel migration and if migration accelerates, a modified diversion dam and/or relocating the diversion upstream may be necessary for this structure to function properly.

Comments: This ditch includes priorities 57, 90, and 143.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Diversion dam on feeder ditch



Headgate outlet



Diversion dam and feeder ditch on Rio Grande



Flume looking downstream



Flume looking upstream

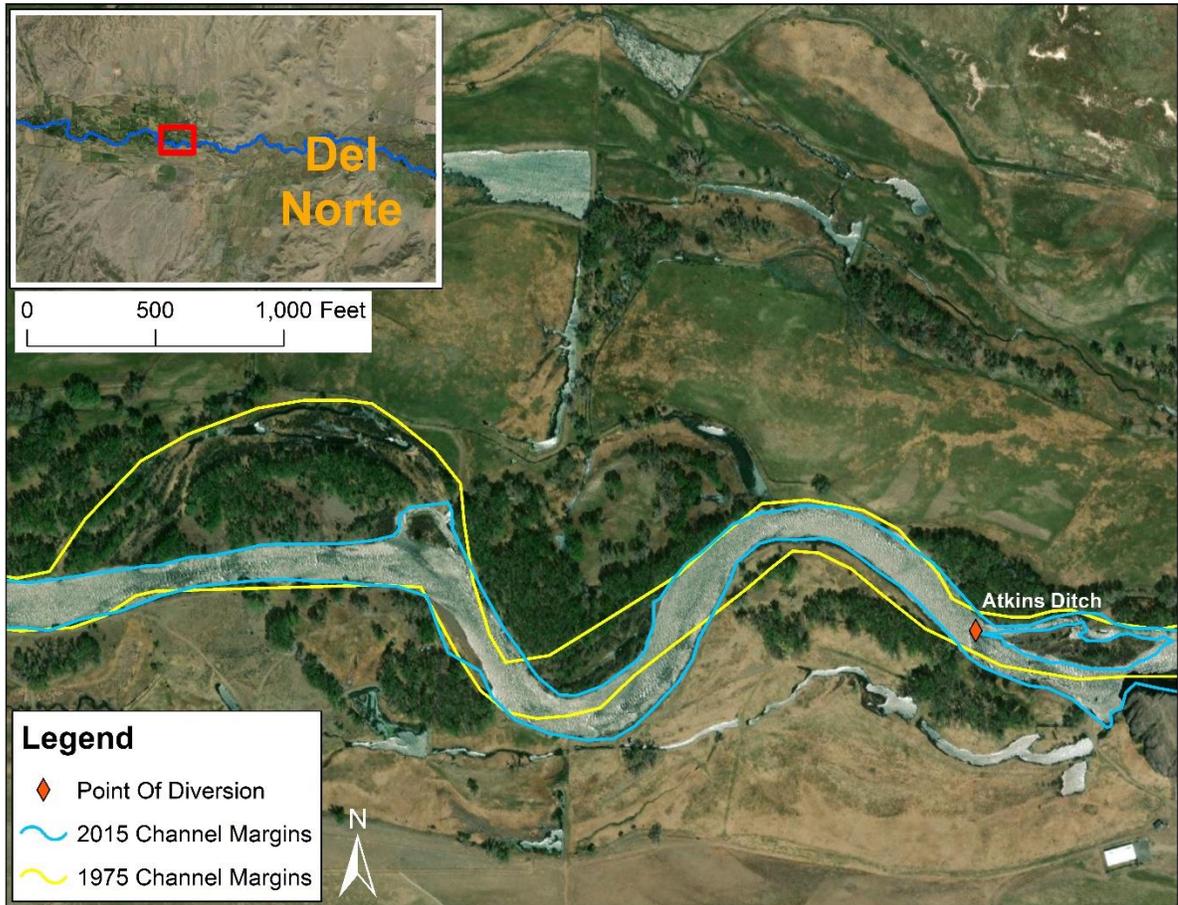


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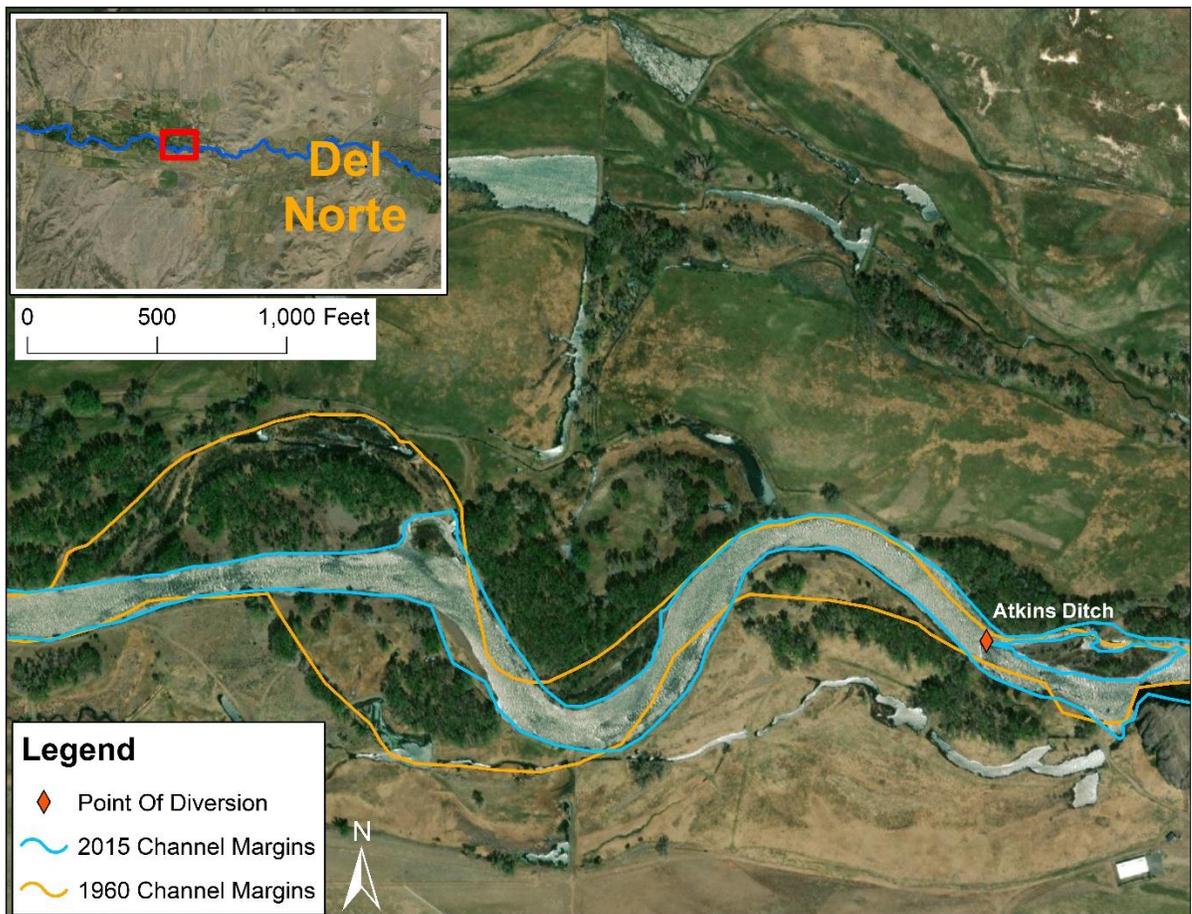
ATKINS DITCH

PHOTO LOG

**Rio Grande Stream
Management Plan**



Map showing 1975 and 2015 channel margins.



Map showing 1960 and 2015 channel margins.



Aerial imagery from 2018 showing diversion dam and downstream bank stabilization structure.



Diversion dam and feeder channel entrance during high flow in spring 2019