

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: DYER D

Reported By: Daniel Boyes

Date: May 7, 2019

Headgate	Latitude	Longitude
Location:	37.68225	-106.37846667

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 checked="" type="checkbox"/>
	B <input type="checkbox"/>		B <input checked="" type="checkbox"/>		No	<input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>	103.09 mi		
	D <input type="checkbox"/>		D <input type="checkbox"/>			
	F <input checked="" type="checkbox"/>		F <input type="checkbox"/>			

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

Structure Description: The Rio Grande has remained relatively stable in this area since at least 1960, however erosion on the south bank downstream of the diversion appears to have increased in recent years. A headwall with a culvert along the south bank of the Rio Grande directs water to a high flowchannel that services this ditch and the Del Norte Town Ditch. A diversion dam on the feeder channel directs water to the headgate and functions well. The headgate, however, jams and does not seal properly. Water not diverted by the Dyer Ditch remains in the overflow channel, which merges with Pinos Creek and returns to the Rio Grande just downstream of the Rio Grande Canal. There is a depressed area along the bank of the Rio Grande just downstream of this structure's diversion which will allow river flows of greater than 5000 cfs to overtop the bank and flow along a high flow channel. This channel flows back to the river downstream of the Rio Grande Canal headgate. This is an emergency overflow measure to prevent the Rio Grande Canal headgate from being washed out during high flows.

Repair(s) or Improvement(s) Currently Needed: The Technical Advisory Team (TAT) recommends repairing or replacing the headgate, including lifting it, as it is typically underwater. Additionally, bank stabilization near the diversion is recommended to mitigate erosion and prevent future channel avulsion.

Comments: This ditch includes priorities 15 and 1916-30A. There is a depressed area along the bank of the Rio Grande just downstream of the culvert that will allow river flows of greater than 5,000 cfs to overtop the bank and flow along the high flow channel. The high flow channel flows back to the river downstream of the Rio Grande Canal headgate. This is an emergency overflow measure to prevent the Rio Grande Canal headgate from being washed out during high flows.

Notes:

Estimated Range of Cost: Medium

Headgate looking downstream



Headgate and diversion dam



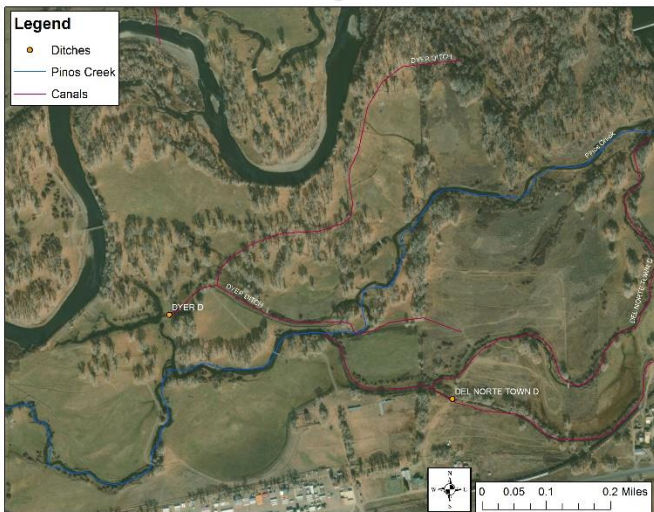
Headgate outlet



Diversion dam and headgate on Rio Grande



Aerial image of ditch



Flume looking downstream

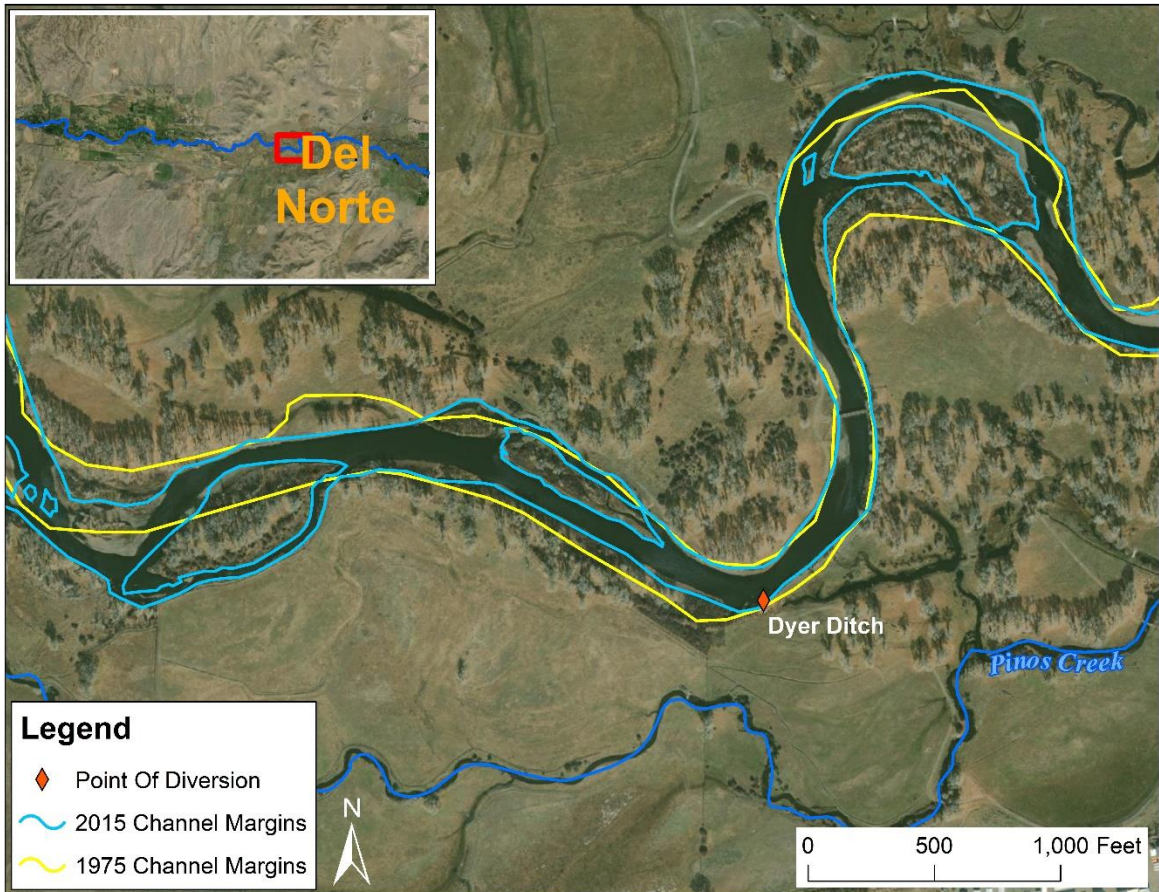


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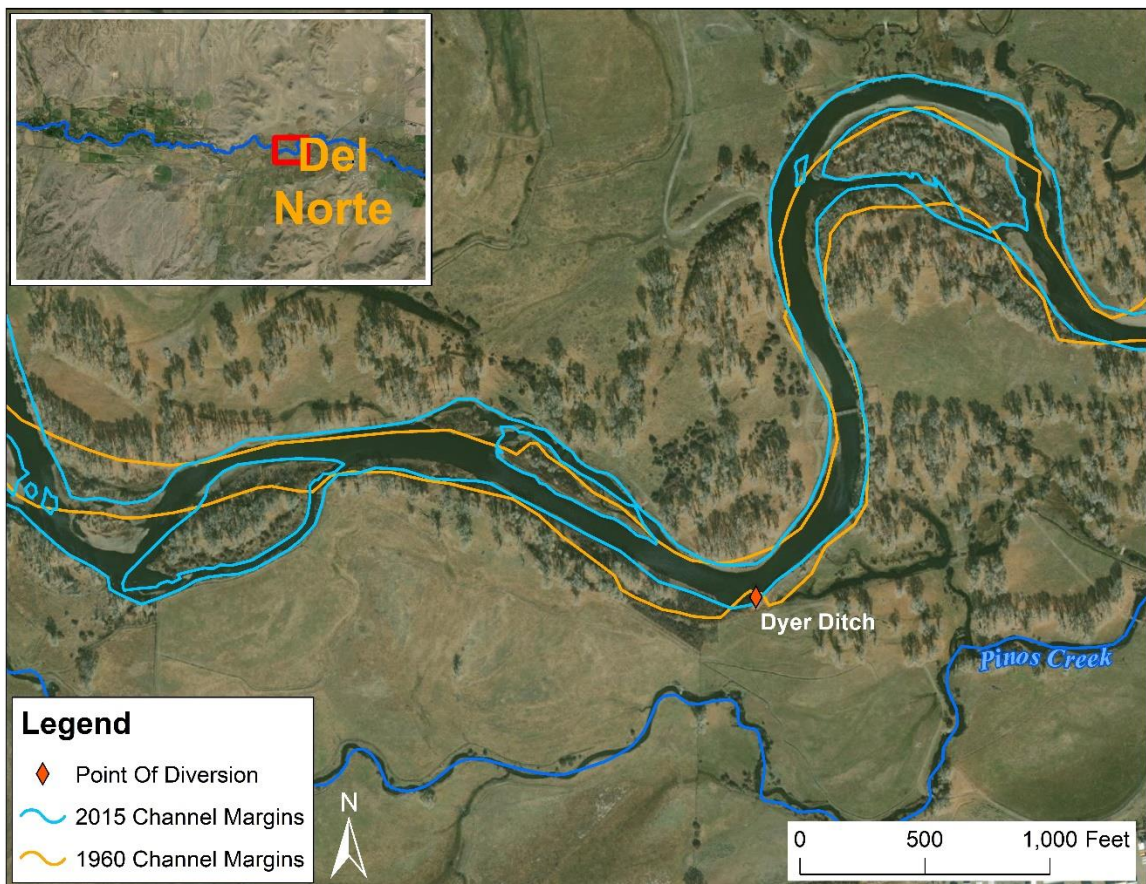
DYER DITCH

PHOTO LOG

**Rio Grande Stream
Management Plan**



Point of diversion and headgate locations of Dyer Ditch with 1975 and 2015 channel margins overlaid.



Dyer Ditch with 1960 and 2015 channel margins overlaid.