

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: RIO GRANDE SPLITTER

Reported By: Daniel Boyes

Date: April 9, 2019

Headgate	Latitude	Longitude
Location:	37.684284	-106.344188

Headgate Type: Manually operated 3' wood slide gates (8)

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 checked="" type="checkbox"/>		B <input type="checkbox"/>		No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>		
	D <input type="checkbox"/>		D <input checked="" type="checkbox"/>	100.2 mi	
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Repair(s) or Improvement(s) Completed Since 2006: Annual maintenance or replacement of the main diversion dam that spans the channel.

Structure Description: The Rio Grande Splitter is the river structure that controls flow to the North and South Channels of the Rio Grande. A concrete headwall with eight 3 ft wide wooden headgates controls flows to the North Channel. A diversion dam made up of boulders and woody debris controls flows to the South Channel. Although the headworks controlling flow to the North Channel functions well, the push-up diversion dam on the South Channel functions poorly, collects woody debris, and heavy equipment is regularly used to maintain the structure. Downstream of the diversion dam, the south bank of the South Channel is eroding and lacks riparian vegetation. The diversion dam also poses a significant obstacle to recreational boat passage and fish passage to the South Channel.

Repair(s) or Improvement(s) Currently Needed: Given the challenges faced by water users and the risk to recreational boating, the SMP Technical Advisory Team (TAT) recommends replacing the current diversion with a more functional and lower maintenance structure. CPW recommends fish passage at this location. The TAT recommends also creating safe boat passage and allowing for debris and sediment transport at the diversion. As part of the diversion dam replacement, bank and vegetation revegetation is recommended.

Comments: This structure has no associated decree but is an important structure for administration of all ditches located on the North Channel Rio Grande.

Notes:

Estimated Range of Cost: High

Headgate for North Channel Rio Grande looking downstream



Headgate and diversion dam



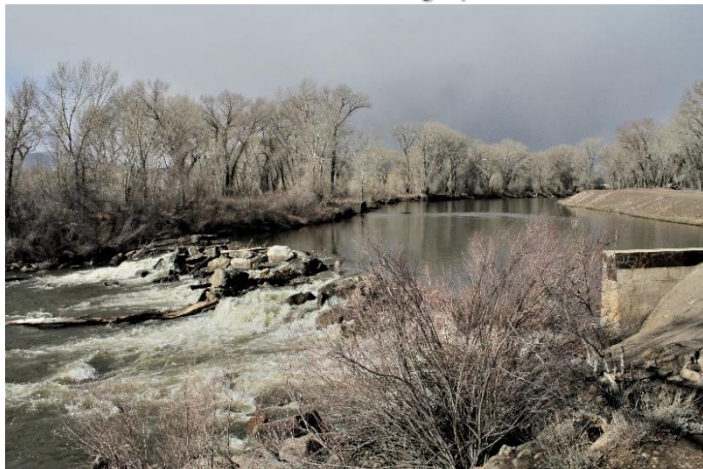
Headgate outlet



North Channel Rio Grande looking downstream



Diversion dam looking upstream



Diversion dam

Photo: Stuart Penny



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RIO GRANDE SPLITTER

PHOTO LOG

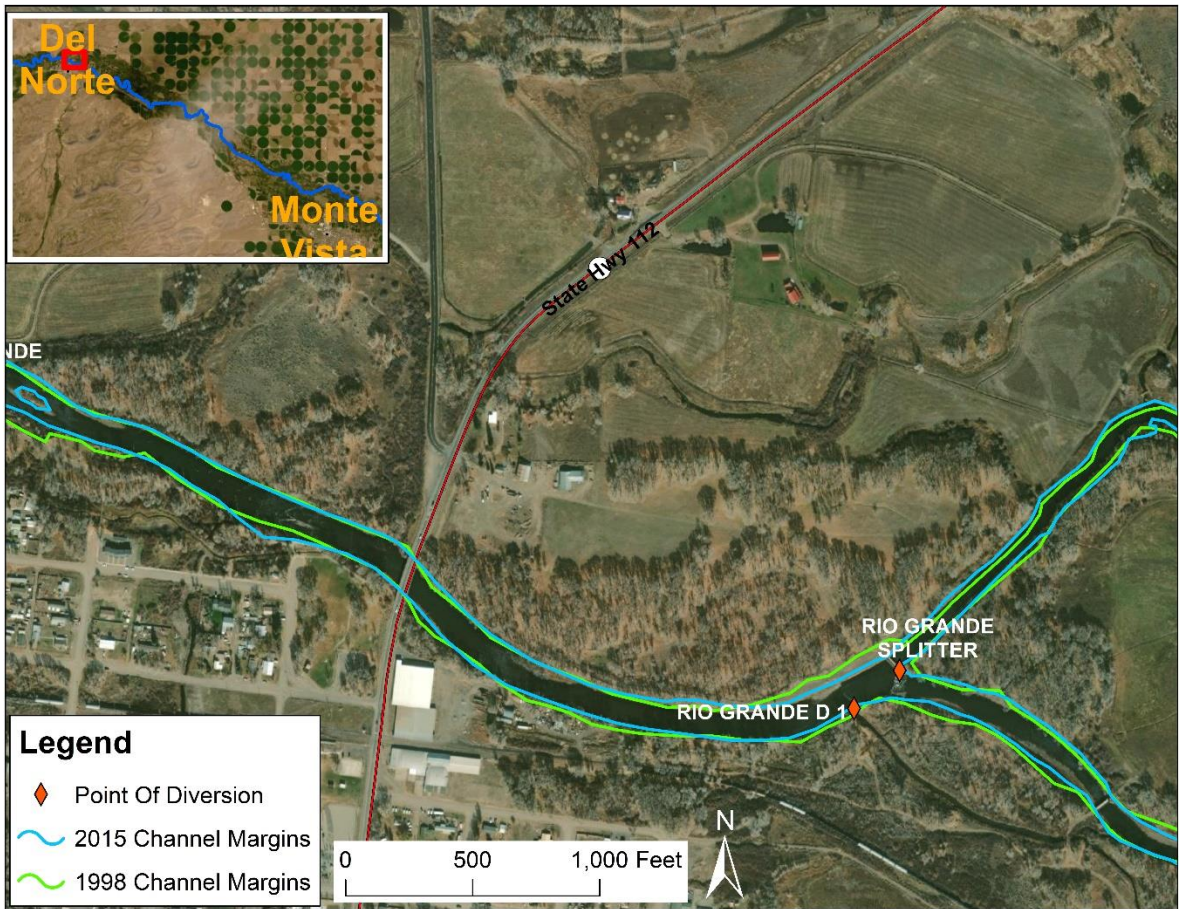
Rio Grande Stream Management Plan



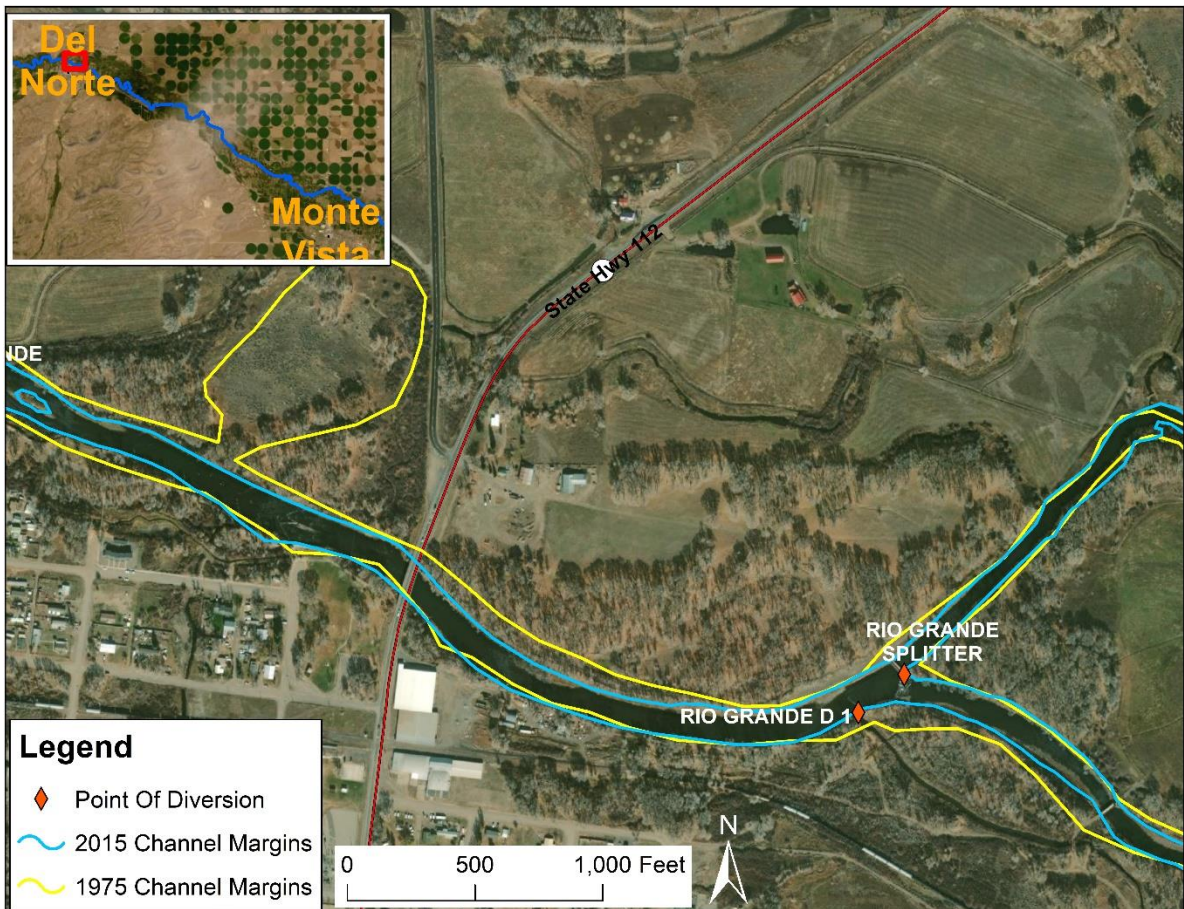
Aerial view of Rio Grande Splitter looking downstream.
Photo taken during spring runoff 2019 (Photo: Stuart Penny).



Aerial view of Rio Grande Splitter looking upstream (Photo: Stuart Penny).



Rio Grande Splitter point of diversion with 1998 and 2015 channel margins overlaid



Rio Grande Splitter point of diversion with 1975 and 2015 channel margins overlaid