

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: MCDONALD D

Reported By: Daniel Boyes

Date: April 9, 2019

Headgate	Latitude	Longitude
Location:	37.64708333	-106.23963333

Headgate Type: Automated gates (2)

Headgate Condition:	A <input checked="" type="checkbox"/>	Diversion and Other Condition:	A <input checked="" 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 type="checkbox"/>		No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>	91.33 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 was moved upstream and a New diversion dam, headgate, and extended canal were constructed. The concrete diversion dam and headgate were completed in spring and fall 2015, respectively. The canal pipeline was completed in spring 2016. The project was undertaken as a partnership between the RGHRP, NRCS, and the ditch company.

Structure Description: The channel in this area is partially controlled by bedrock and has migrated very little over the last 40 years. In order to address an aging headgate and diversion dam, this structure was fully reconstructed as part of the McDonald Ditch Implementation Project. This project included constructing a new diversion dam, headgate, and pipeline as well as the reclamation of a 2-acre wetland and stabilization of 1,000 feet of streambank. The old diversion dam, which remains intact, is made up of concrete blocks and debris. The new diversion dam is ~780 ft upstream of the old diversion dam. The new diversion includes a fish ladder for trout which also allows for boat passage. The concrete diversion directs water to automated headgates, located on the north bank of the river. The ~1,000 ft pipeline passes under County Rd 5 N and delivers water to the ditch. These improvements have significantly increased the efficiency of this diversion

Repair(s) or Improvement(s) Currently Needed: No repair needs were noted at the time of inspection.

Comments: This ditch includes priorities 11 and 18.

Notes:

Estimated Range of Cost: Low

Headgate and diversion dam



New headgate under construction



Headgate outlet and flume



Diversion dam looking upstream



Old diversion dam



Flume looking downstream

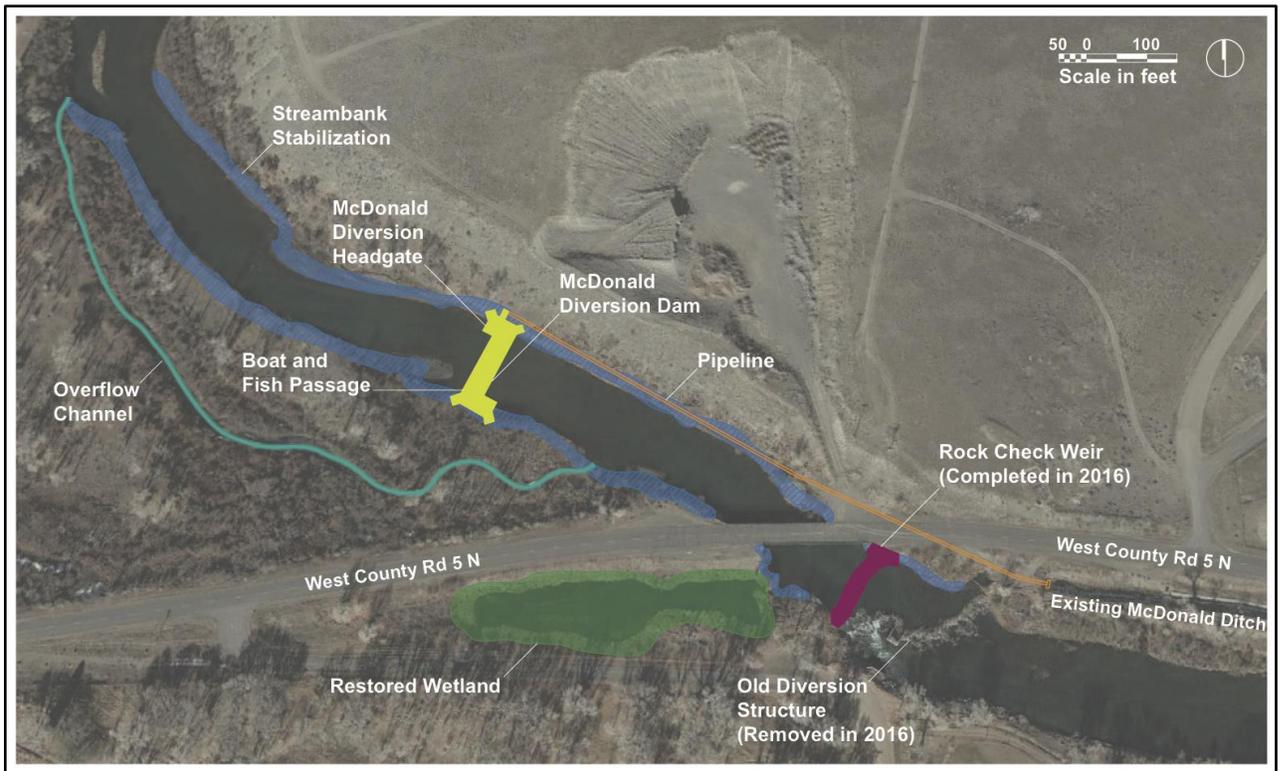


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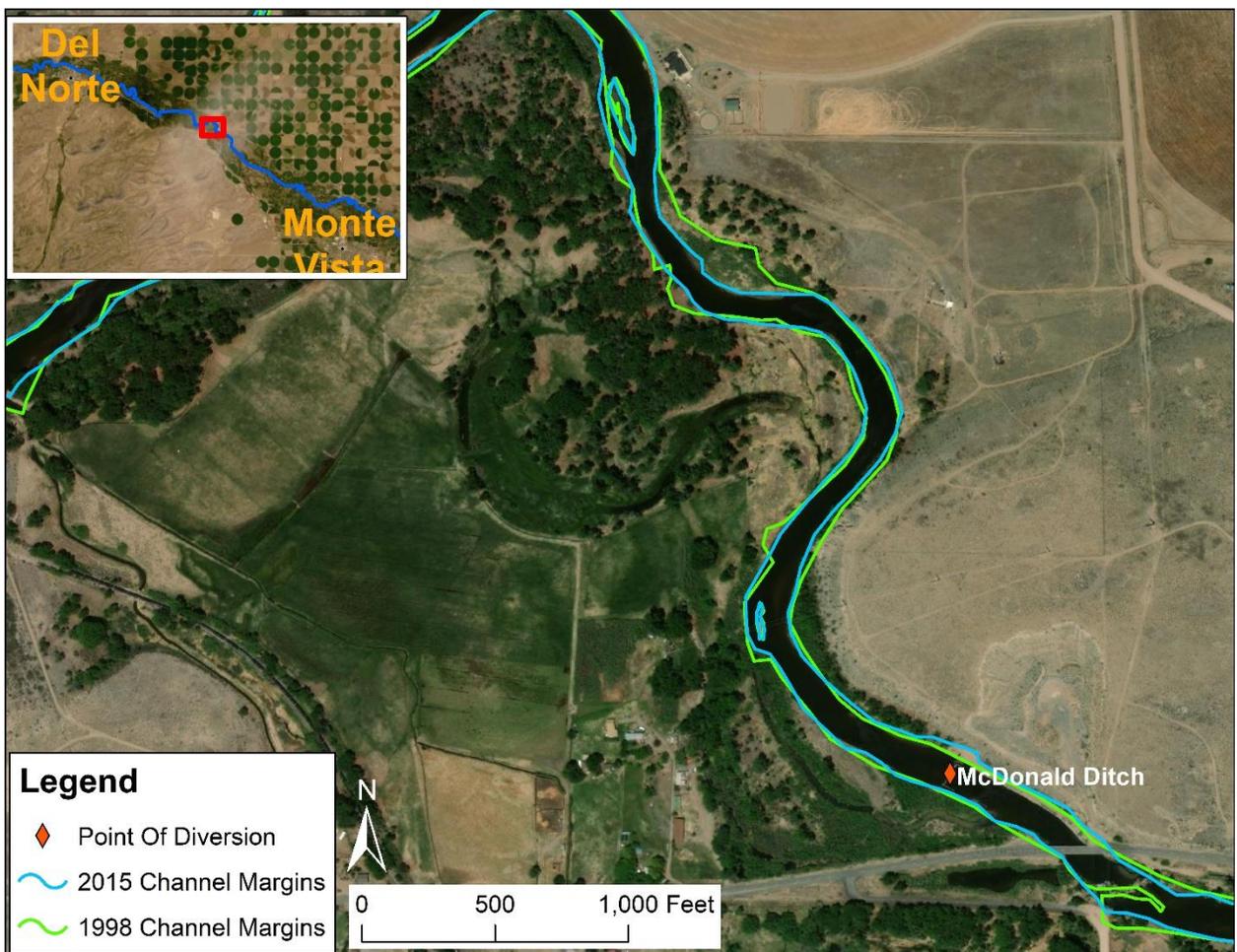
MCDONALD DITCH

PHOTO LOG

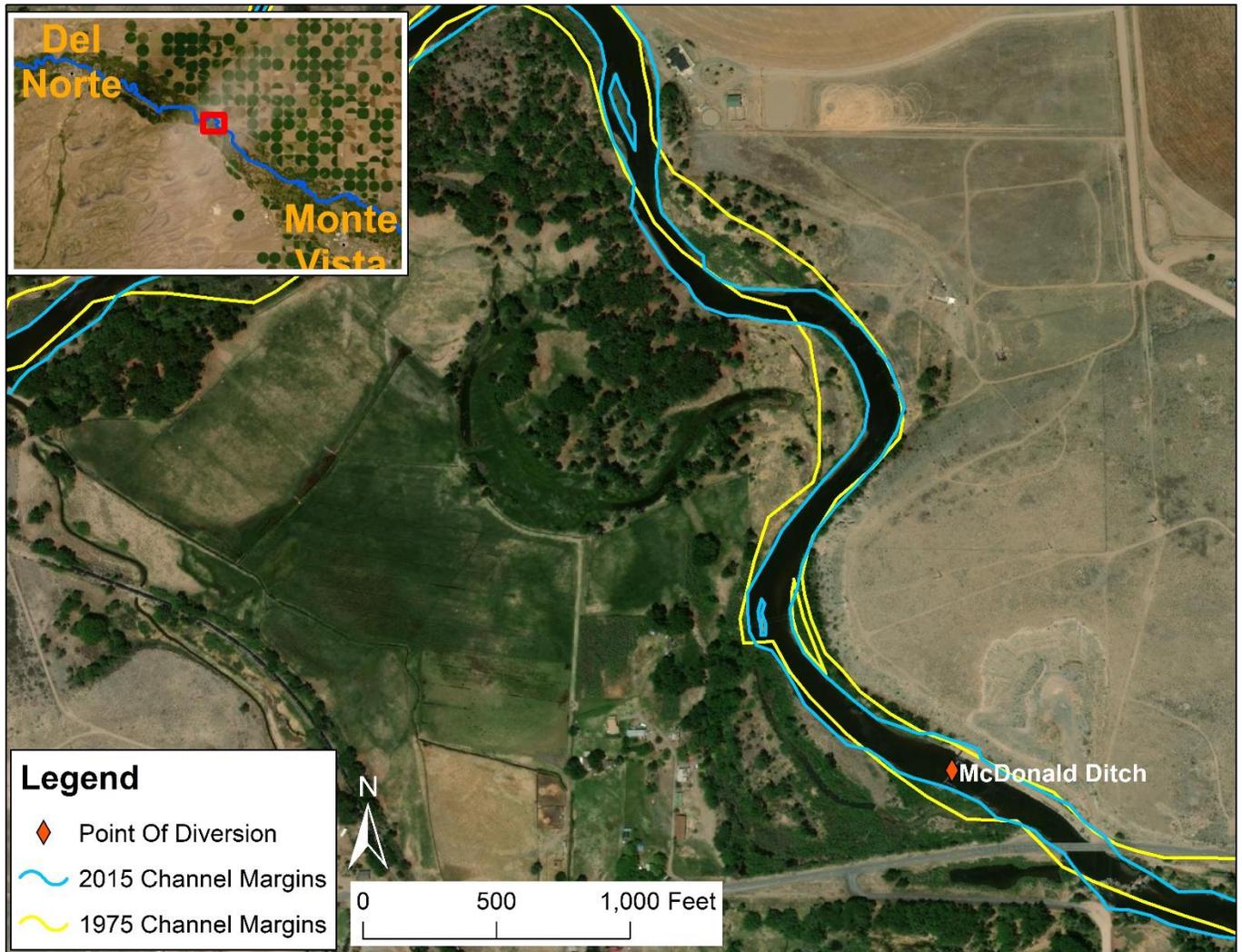
Rio Grande Stream
Management Plan



Map of the McDonald Ditch Implementation Project



McDonald Ditch headgate with 1998 and 2015 channel margins



McDonald Ditch headgate with 1975 and 2015 channel margins overlaid