

CONEJOS RIVER DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: MILL D

Reported By: Daniel Boyes

Date: April 15, 2019

Headgate	Latitude	Longitude
Location:	37.13818	-105.91846

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 Rio Grande Confluence (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"/>		
	D <input checked="" type="checkbox"/>		D <input checked="" type="checkbox"/>	23.57 mi	
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Repair(s) or Improvement(s) Completed Since 2006: N/A

Structure Description: This structure has a minimal stacked rock diversion dam which directs water into an approximately 620 ft long feeder channel which ends at the headgate. The feeder channel's capacity is limited due to sediment accumulation. The channel is migrating south at the point of diversion, and the main channel has captured an old oxbow, leaving the north channel dry at low flows. The diversion dam is not easily controlled and the ditch has difficulty accessing its full decree at low flows. A sluice gate and overflow channel at the headgate returns unused water to the river. The sluice gate functions poorly and the overflow channel's capacity is limited due to sediment accumulation. The Parshall flume is located approximately 1 mile down the ditch, just downstream of County Rd 19.

Repair(s) or Improvement(s) Currently Needed: Given the issues identified at this structure, the SMP Technical Advisory Team (TAT) recommends improving or relocating the point of diversion, installing a new river headgate, and cleaning both the feeder and return channels. A new diversion and headgate would increase ditch efficiency and allow water users to divert water at all water levels. Feeder and return channel cleaning would increase capacity and ditch efficiency. If any modifications are made to the diversion in the future, the TAT also recommends maintaining fish passage to maintain aquatic habitat connectivity in this reach.

Comments: The Mill Ditch is a priority 9.

Notes:

Estimated Range of Cost: Medium

Headgate looking downstream



Return flow ditch just upstream of headgate



Headgate outlet



Feeder ditch looking upstream



Flume looking downstream



Flume looking upstream



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MILL DITCH

PHOTO LOG

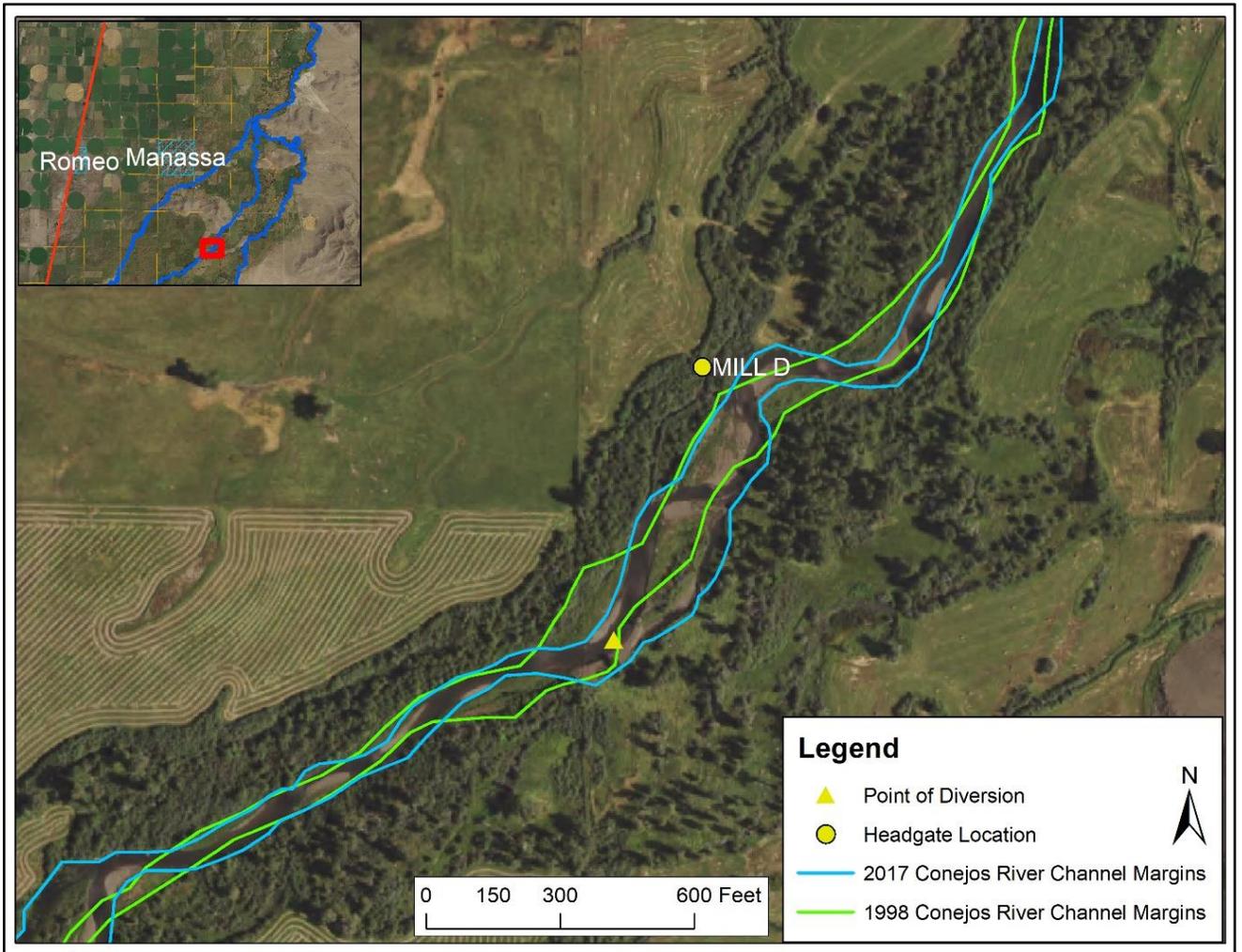
Conejos River Stream Management Plan



Mill Ditch point of diversion and headgate location (2013 imagery)



Mill Ditch point of diversion and headgate location (2016 imagery)



Headgate location with 1998 and 2017 channel margins overlaid