

CONEJOS RIVER

DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: EAST BEND D

Reported By: Daniel Boyes

Date: April 16, 2019

Headgate	Latitude	Longitude
Location:	37.227231	-105.867271

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 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"/>	14.2 mi	
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Structure Description: A concrete diversion dam spans the river and directs water to the headgate. The automated headgate is located on the north bank of Conejos River and does not have a feeder channel. An adjustable sluice gate sits adjacent to the headgate. Despite repairs completed in 2019, the structure still functions poorly. The headgate collects debris and shows signs of potentially washing out at high flows. The diversion dam is also experiencing erosion on the south bank (see photos below). The meanders downstream of the diversion have been growing over the last 20 years. There is a lack of riparian vegetation, particularly downstream of the diversion, that likely exacerbates localized bank erosion. Approximately 550 ft downstream of the flume, the river can wash the ditch out during high flows.

Repair(s) or Improvement(s) Currently Needed: Given the issues identified at this structure, the SMP Technical Advisory Team (TAT) recommends reinforcing the headgate, sluice gate, flume, and diversion, installing a trash rack, and implementing riparian revegetation. Reinforcing the headgate, sluice gate, and diversion would prevent bank failure at high flows. A trash rack would address debris accumulation at the headgate. Riparian revegetation would aid in bank stability and resiliency. If the diversion and/or headworks are improved, the TAT also recommends incorporating fish passage to improve aquatic habitat connectivity in this reach.

Comments: This structure is a priority 88

Notes:

Estimated Range of Cost: Moderate

Headgate and diversion dam



Diversion dam looking upstream



Headgate outlet



Flume looking downstream



Flume looking upstream



Ditch (left) and Conejos River (right)

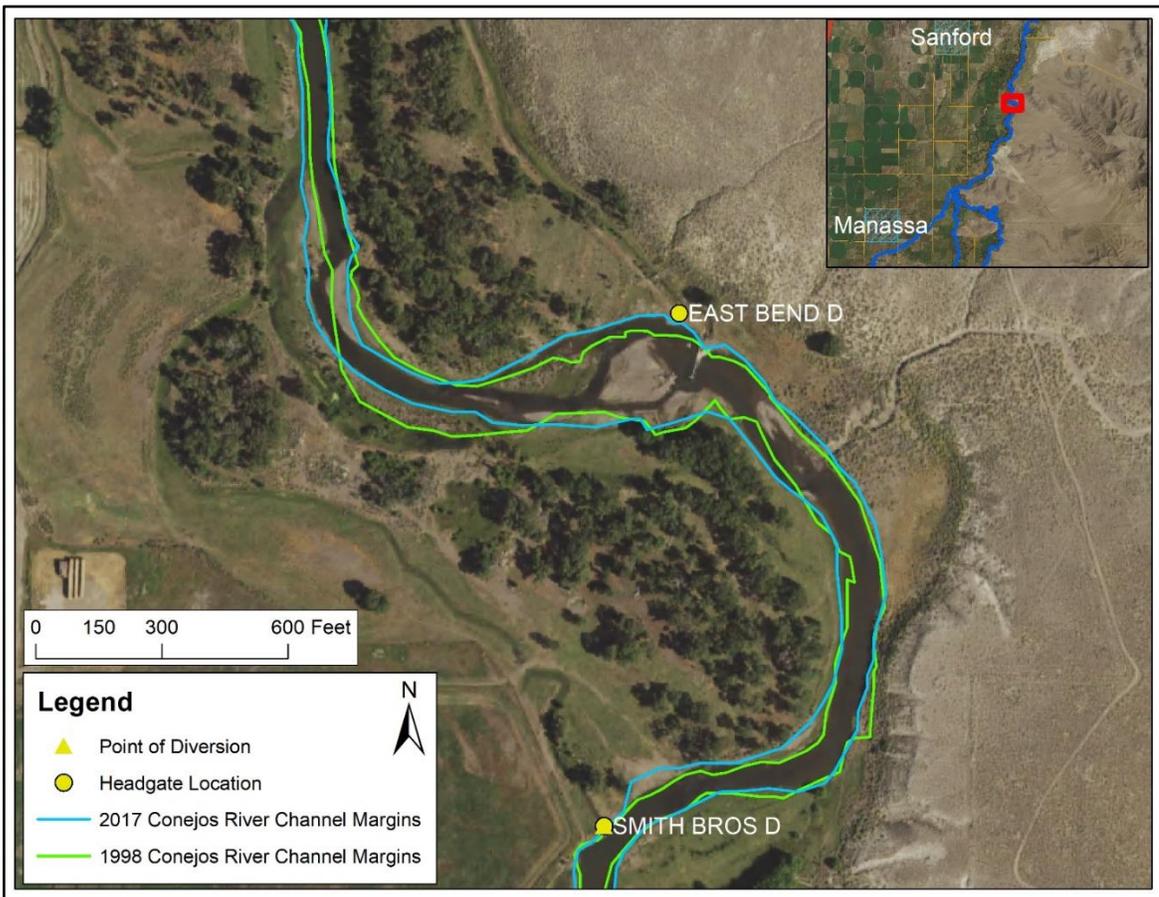


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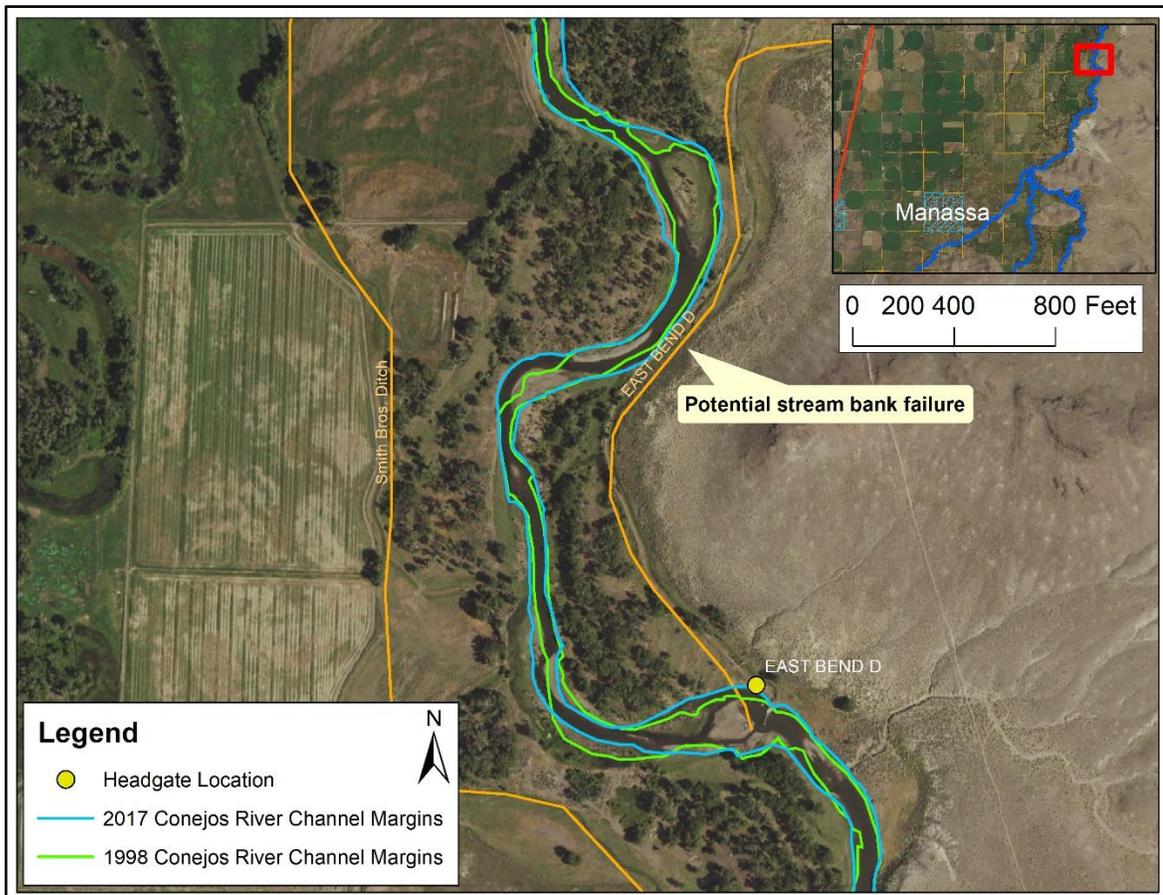
EAST BEND D

PHOTO LOG

Conejos River Stream Management Plan



Map of headgate location with 1998 and 2015 channel margins overlaid



Map of ditch location with 1998 and 2015 channel margins overlaid. This image also indicates the location of stream bank failure & ditch wash out.