

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: NEW DITCH

Reported By: Daniel Boyes

Date: April 11, 2019

Headgate	Latitude	Longitude
Location:	37.423236	-106.781646

Headgate Type: Manually operated 4' 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 type="checkbox"/>
	B <input checked="" type="checkbox"/>		B <input type="checkbox"/>	41.92 mi	No <input checked="" type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>		
	D <input type="checkbox"/>		D <input type="checkbox"/>		
	F <input type="checkbox"/>		F <input checked="" type="checkbox"/>		

Repair(s) or Improvement(s) Completed Since 2006: The headgate and diversion dam were replaced in 2019. The culvert where the New Ditch crosses under Chicago Ditch was also replaced and the location of measurement was also moved.

Repair(s) or Improvement(s) Currently Needed: During 2019 spring runoff, high flows caused the river to bypass the diversion dam and caused damage to the dam and possibly the headgate. The existing diversion dam needs to be replaced with a dam that is well suited for the surrounding channel conditions and the structure's priority. There are plans to improve the function of the diversion, possibly by raising the elevation of the diversion for improved function. Channel and bank restoration work in this reach, particularly upstream of the diversion, could be implemented to reconnect the river with its floodplain and to restore native riparian vegetation. Such restoration work would improve the function of this structure by slowing and dispersing water during high flow events and mitigating damage. Future improvements to the diversion dam should incorporate fish and boat passage. The flume could also be reset or replaced to improve measurement accuracy.

Structure Description: This is the last structure on the Rio Grande before the New Mexico state line. The channel in this reach is entrenched and is not connected with the floodplain in many locations. The diversion dam and headgate were recently repaired but the dam is not functioning well. The flume is on the east side of Closed Basin Canal.

Comments: This ditch includes priorities 1903-22, 1903-49A, 1903-62, and 1959-34.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Headgate and diversion dam



Headgate outlet



Headgate and sluice gate



Culvert where NEW D passes under CHICAGO D



Rio Grande looking upstream



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NEW DITCH

PHOTO LOG

Rio Grande Stream Management Plan