

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: CHICAGO D

Reported By: Daniel Boyes

Date: April 11, 2019

Headgate	Latitude	Longitude
Location:	37.460868	-106.840266

Headgate Type: Automated 10' wide radial gate

Headgate Condition:	A <input checked="" 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 type="checkbox"/>		B+ <input checked="" type="checkbox"/>		No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>	48.54 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: New 10' wide radial headgate installed.

Repair(s) or Improvement(s) Currently Needed: Some woody debris accumulates in front of the headgate and could be cleared, but it does not appear to be a significant issue for water users. Bank stabilization, floodplain reconnection, and riparian vegetation restoration downstream of the diversion dam would improve river function. Potential ditch failure due to channel migration should be avoided through bank stabilization or relocating the path of the ditch. A portage route for recreational boaters around the diversion dam is also recommended. Any future repairs or improvements to the diversion dam should incorporate fish and boat passage, as this structure currently acts as a fish barrier at low flows.

Structure Description: This structure is located ~1.3 miles downstream of the Westside Ditch. Channel avulsion has occurred both upstream and downstream of the diversion dam. The trapezoidal concrete diversion dam creates head pressure for the headgate, which is located ~230 feet upstream. There is a radial adjustment/overflow gate on the east side of the diversion dam. The diversion functions well for water rights holders, but it is a significant barrier to recreational boating and fish passage, especially at low flows. At two locations downstream of the headgate (~3.4 miles and ~4 mi, respectively), the ditch is very close to the Rio Grande, in part due to channel migration. If migration continues, the ditch could be washed out in either of these locations (see map below).

Comments: This ditch includes priorities 174, 196, and 1934-14. The weir measures accurately.

Notes:

Estimated Range of Cost: Moderate

Headgate (from diversion dam)



Headgate outlet



Adjustment gate on diversion dam



Diversion dam



Diversion dam looking upstream (high flow)



Flume looking upstream

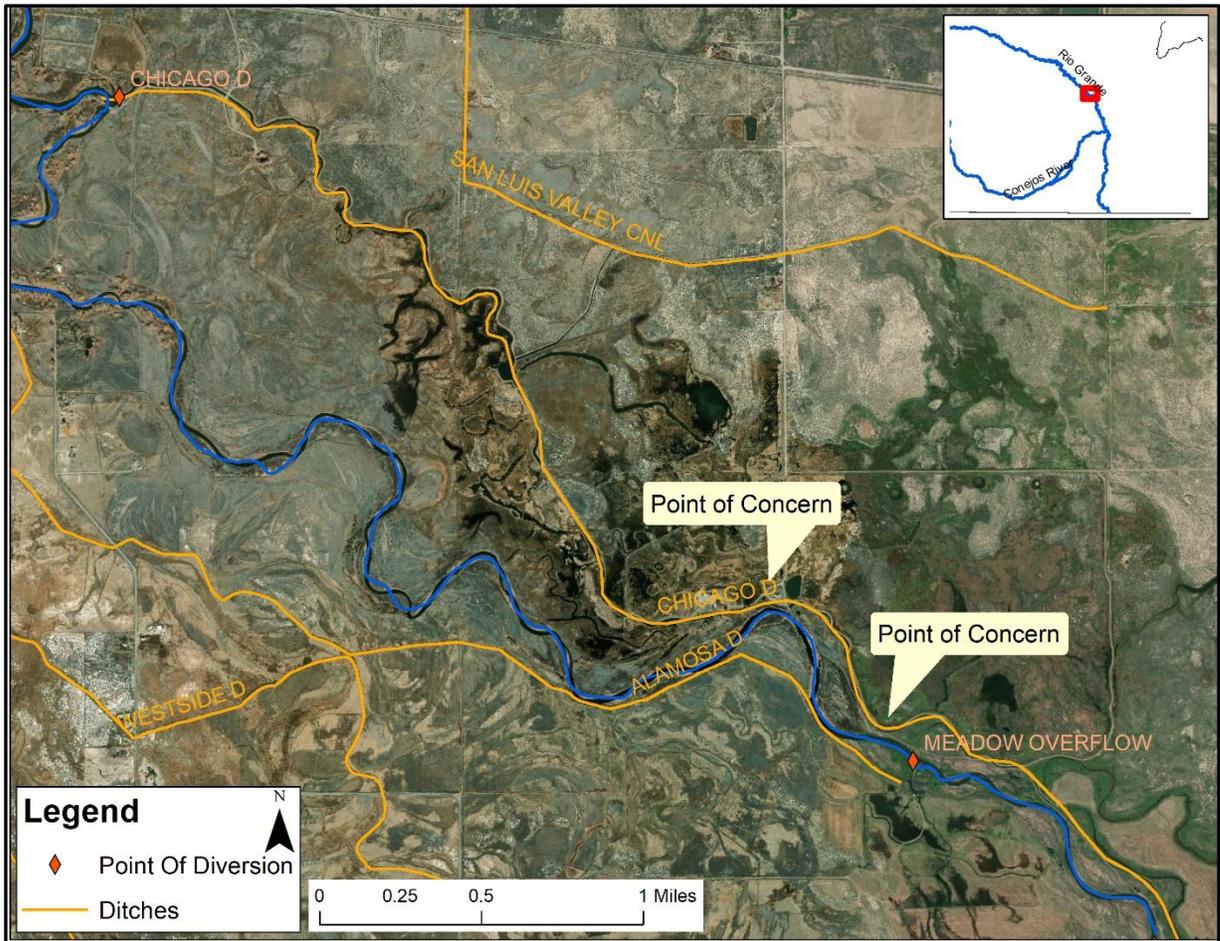


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CHICAGO DITCH

PHOTO LOG

Rio Grande Stream Management Plan



Points of concern on Chicago Ditch where ditch is very close to river channel.



Close up of points of concern.