

# RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

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**Structure Name:** NEW DITCH

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**Reported By:** Daniel Boyes

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**Date:** April 11, 2019

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Headgate	Latitude	Longitude
Location:	37.423236	-106.781646

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**Headgate Type:** Manually operated 4' wide steel slide gate

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<b>Headgate Condition:</b>	A <input type="checkbox"/>	<b>Diversion and Other Condition:</b>	A <input type="checkbox"/>	<b>River Miles from New Mexico State Line (Point of Diversion):</b>	<b>Structure Submerged:</b> 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"/>		

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**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:** This is the last diversion 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 was recently repaired but is still not functioning optimally. During 2019 spring runoff, the river flooded around the dam. There are plans to raise the elevation of the diversion for improved function. The flume is on the east side of Closed Basin Canal and does not measure very accurately. The headgate and diversion dam were replaced in 2019. The culvert where the New Ditch crosses under Chicago Ditch was also replaced.

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**Structure Description:** Given the issues identified at this structure, the SMP Technical Advisory Team (TAT) recommends diversion dam replacement, resetting or replacing the flume, and implementing channel and bank restoration. The TAT recommends fish and boat passage in this reach as well as adequate sediment transport. A new diversion could be designed to effectively divert the ditch's water rights while also allowing for sediment transport and fish and boat passage. River restoration would reconnect the river with its floodplain and restore native riparian vegetation. Restoration would also improve the function of this structure by slowing and dispersing water during high flow events, thereby protecting diversion infrastructure. Flume improvements would reduce maintenance and improve measurement accuracy.

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

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**Notes:**

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**Estimated Range of Cost:** Medium

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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