

# RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

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**Structure Name:** SILVA D

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**Reported By:** Daniel Boyes

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**Date:** April 9, 2019

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Headgate	Latitude	Longitude
Location:	37.65136667	-106.25425

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**Headgate Type:** Manually operated 3' 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 checked="" type="checkbox"/>
	B <input checked="" type="checkbox"/>		B <input type="checkbox"/>		No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input checked="" type="checkbox"/>	92.61 mi	
	D <input type="checkbox"/>		D <input type="checkbox"/>		
	F <input type="checkbox"/>		F <input type="checkbox"/>		

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**Repair(s) or Improvement(s) Completed Since 2006:** The headgate was recently improved with new and extended wing walls. The flume was recently replaced and functions well.

**Structure Description:** This ditch holds the #1 priority water right on the Rio Grande. The ditch shares a diversion dam and short feeder channel with the Atencio Ditch 2. The diversion dam is a stacked rock structure, which was recently supplemented with additional rock. Despite recent improvements, this diversion accumulates woody debris and sediment and is a significant maintenance challenge for water users. It is a hazard for recreational boaters and can also form a barrier to fish passage during low flow conditions. Water is directed to the headgate, located down a short feeder channel off the south bank of the Rio Grande. The headgate and flume were recently replaced and both function well. The channel both upstream and downstream of the diversion experiences lateral migration. Meanders have continued to grow over the last 40 years (see map in report card). However, migration at the diversion dam is limited due to bedrock control. A secondary channel begins approximately 0.9 miles upstream of the diversion and flows around the structure.

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**Repair(s) or Improvement(s) Currently Needed:** Given the issues identified, the SMP Technical Advisory Team (TAT) recommends replacing the diversion dam. A new diversion could be designed to increase diversion and irrigation efficiencies, reduce maintenance, create fish and boat passage, and improve sediment and debris transport.

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**Comments:** This ditch is the #1 priority on the Rio Grande and also includes priorities 1, 7, 38, 239, and 251.

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**Notes:**

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**Estimated Range of Cost:** Medium-High

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Headgate looking downstream



Headgate outlet



Diversion dam looking downstream



Feeder ditch (also serves Atencio Ditch #2)



Flume looking downstream



Flume looking upstream



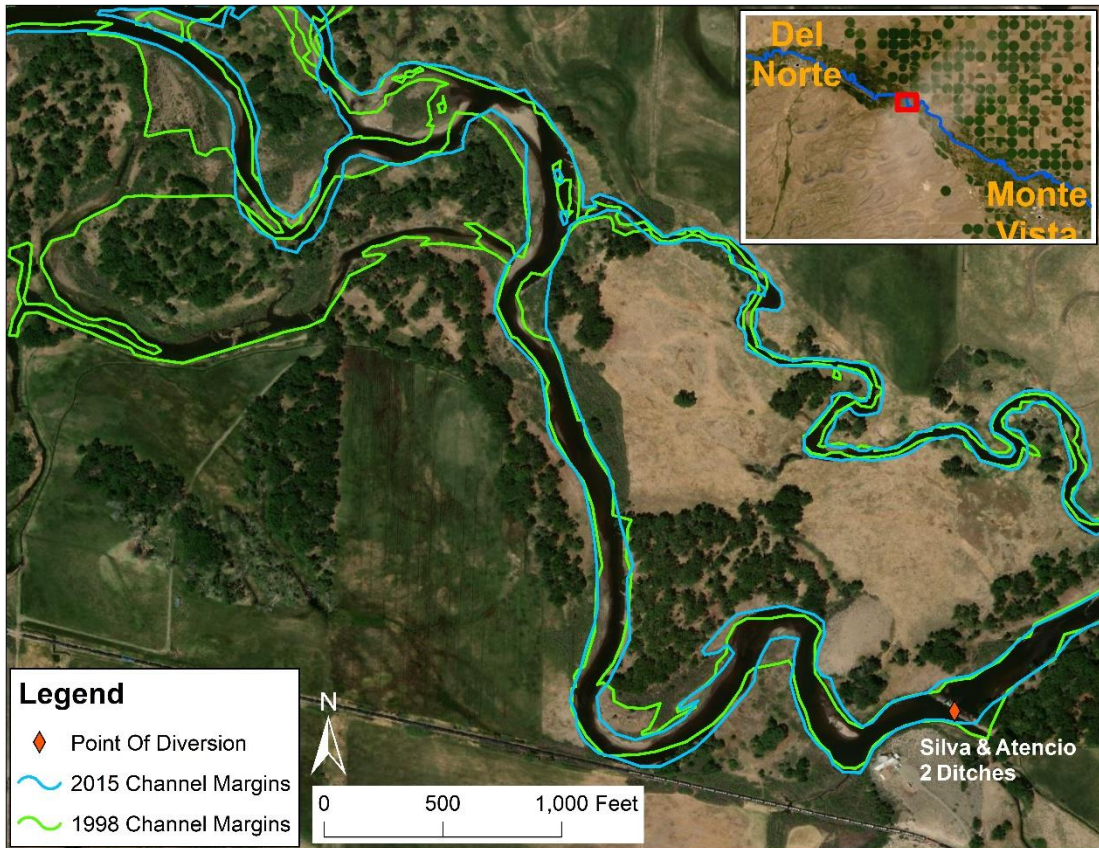
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SILVA D

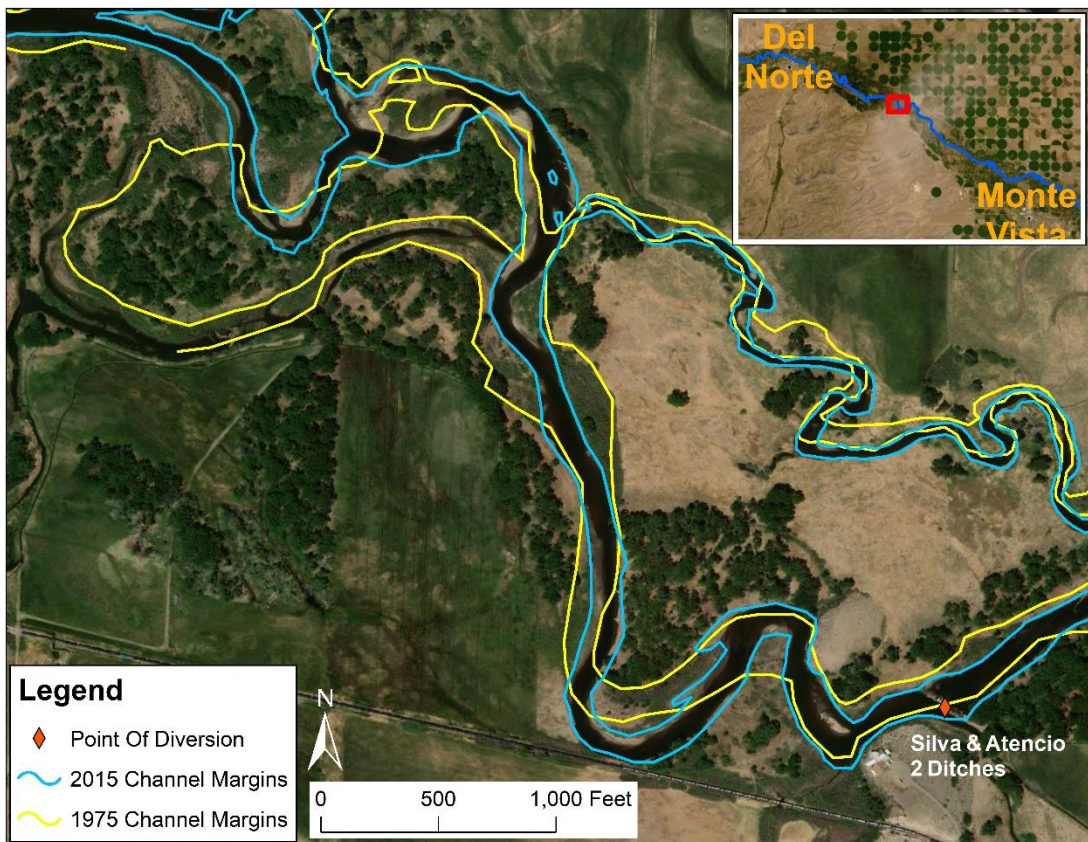
PHOTO LOG

Rio Grande Stream Management Plan



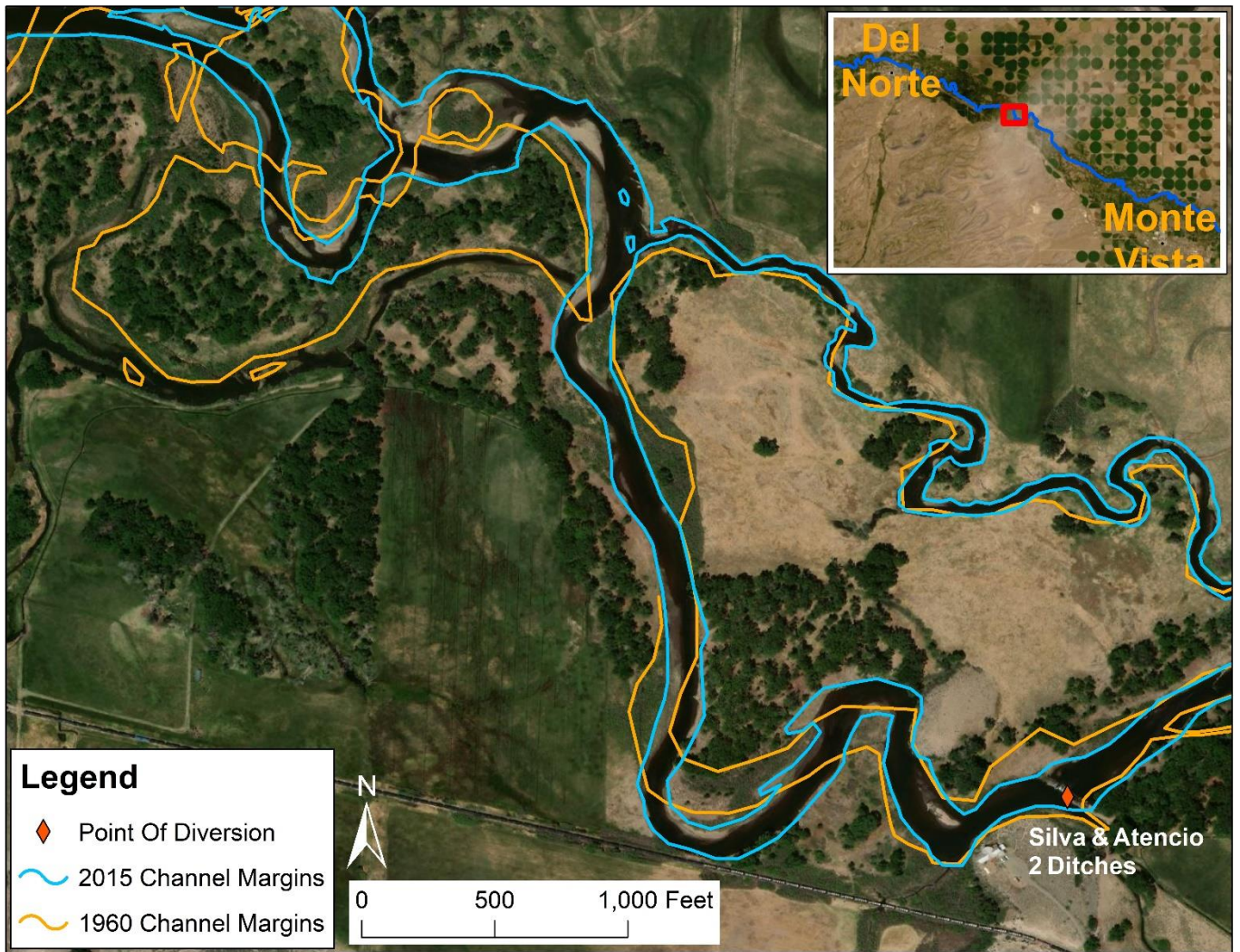


Silva Ditch point of diversion with 1998 and 2015 channel margins overlaid



Silva Ditch point of diversion with 1975 and 2015 channel margins overlaid





Silva Ditch point of diversion with 1960 and 2015 channel margins overlaid.