

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: SCHUCH SCHMIDT D

Reported By: Daniel Boyes

Date: April 9, 2019

Headgate	Latitude	Longitude
Location:	37.68771667	-106.36716667

Headgate Type: Manually operated 2' 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 checked="" type="checkbox"/>
	B <input type="checkbox"/>		B <input type="checkbox"/>		No <input type="checkbox"/>
	C <input checked="" type="checkbox"/>		C <input checked="" type="checkbox"/>	101.67 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: None

Structure Description: This structure shares a diversion with the Rio Grande Canal. The structure utilizes the same diversion dam and the headgate is located on the headwall of the Rio Grande Canal diversion structure. Water drains through a corrugated metal pipe underneath the hill to the north, and reaches the ditch approximately 0.25 miles northeast. The diversion dam functions well for this ditch, but the headgate leaks. The channel is very stable in the area immediately surrounding this structure's diversion, in part due to the bedrock control on the north bank of the river. However, approximately 1.5 miles upstream of the Rio Grande Canal diversion, near the Dyer Ditch diversion, there is potential for the river to jump the south bank and form a new channel, following Dyer Ditch and the Pinos Creek channel (see map below). If this occurs, the Rio Grande Canal would be bypassed and could pose a serious flooding risk to the Town of Del Norte.

Repair(s) or Improvement(s) Currently Needed: The diversion dam functions well for this ditch, but the headgate leaks and the SMP Technical Advisory Team (TAT) recommends headgate repair.

Comments: This ditch includes priorities 179, 219, and 317.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Diversion dam



River headgate looking upstream



Rio Grande Canal looking downstream



Flume looking upstream



Flume looking downstream

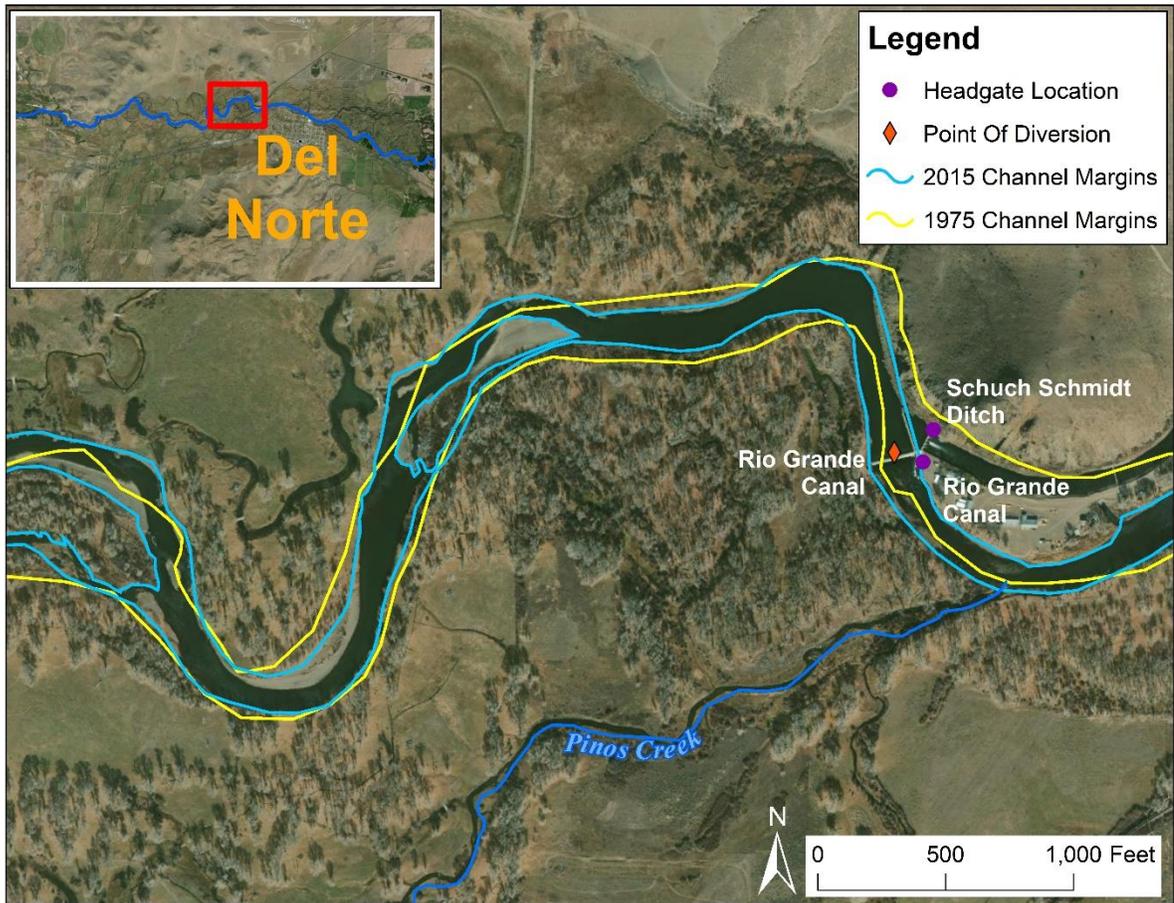


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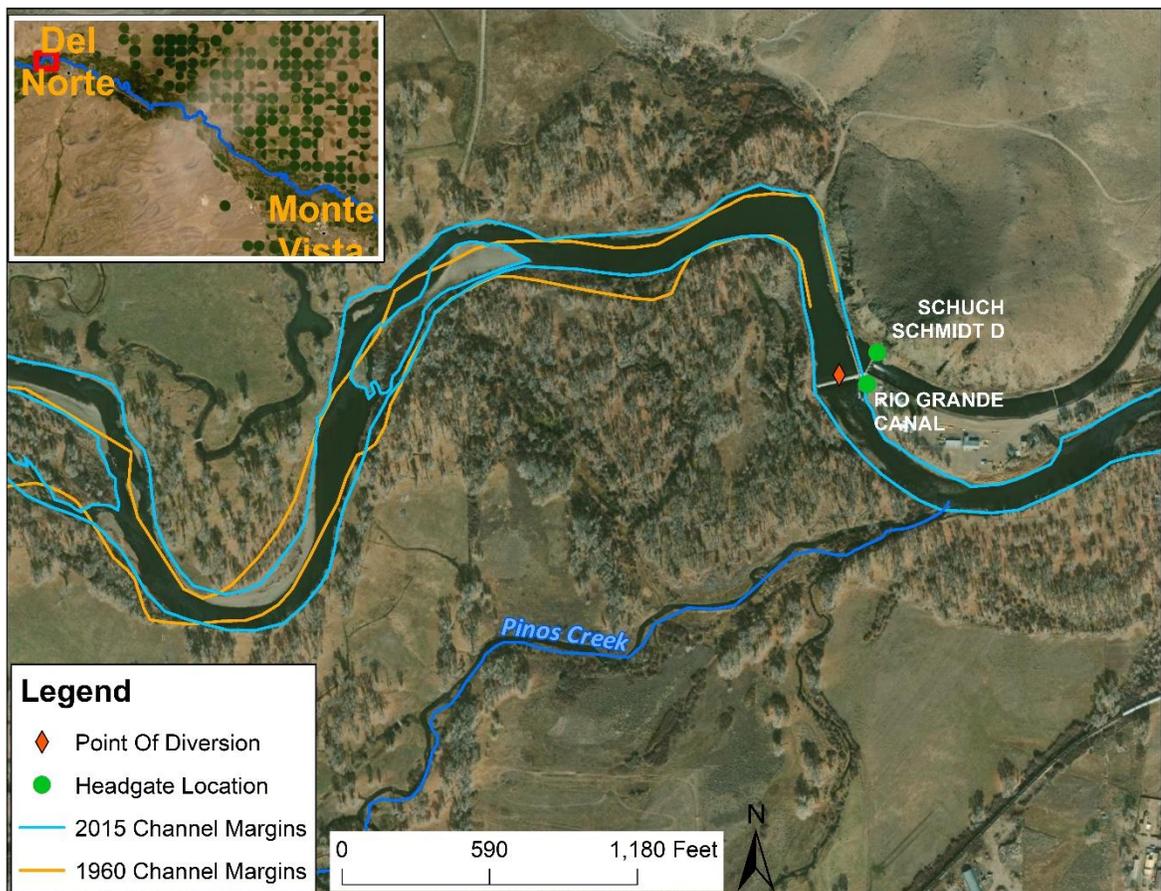
SCHUCH SCHMIDT DITCH

PHOTO LOG

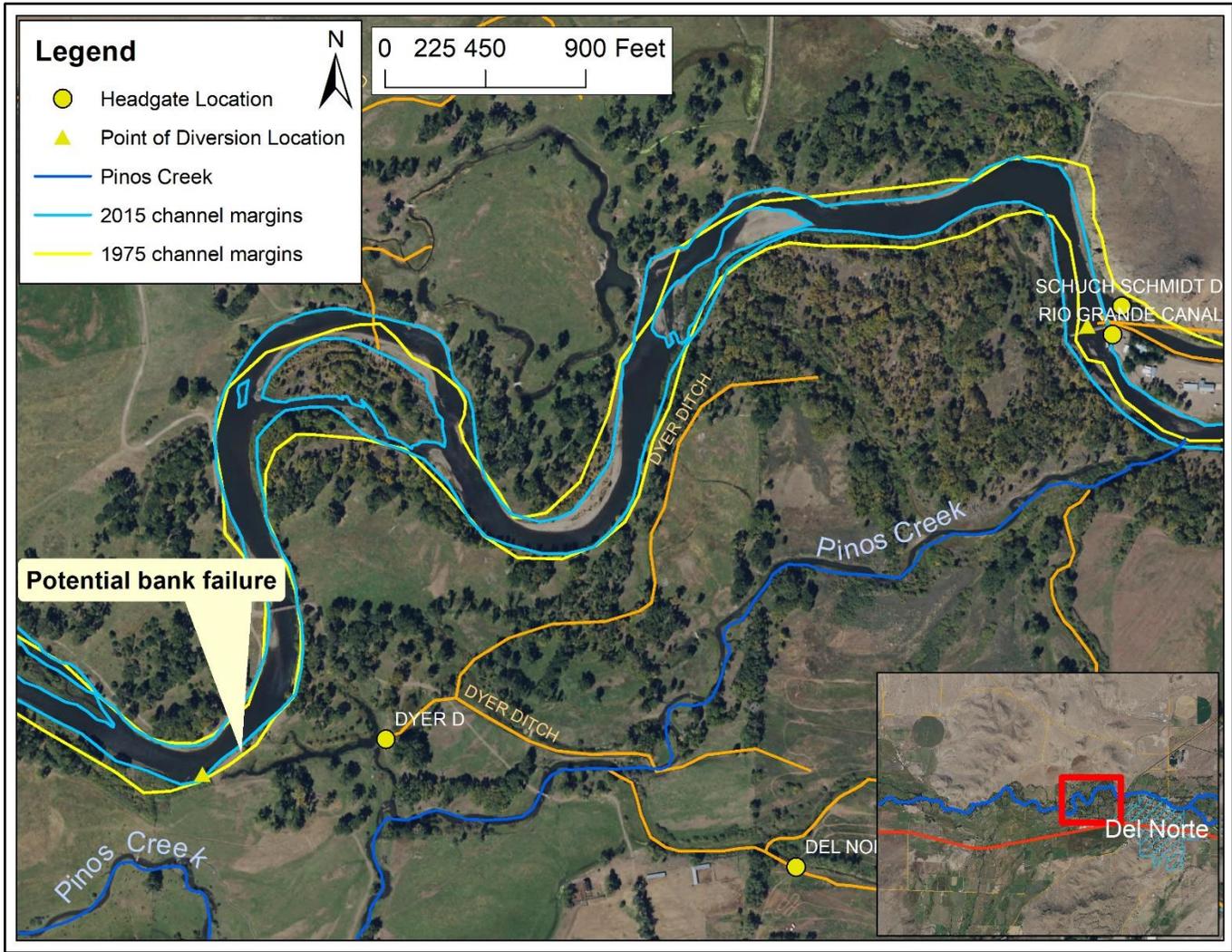
**Rio Grande Stream
Management Plan**



Map of Schuch Schmidt diversion dam (shared with Rio Grande Canal) with channel margins from 1975 and 2015 overlaid.



Map of headgate location with channel margins from 1960 and 2015 overlaid.



Map showing potential bank failure and risk to Rio Grande Canal