

CONEJOS RIVER

DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: BALL BROS OVERFLOW NO 1

Reported By: Daniel Boyes

Date: April 16, 2019

Headgate	Latitude	Longitude
Location:	37.2973	-106.76208333

Headgate Type: Manually operated 3' wide steel slide gates (2)

Headgate Condition:	A <input type="checkbox"/>	Diversion and other Conditions:	A <input type="checkbox"/>	River Miles from Rio Grande Confluence (Point of Diversion):	Structure Submerged: Yes <input checked="" type="checkbox"/>
	B <input checked="" type="checkbox"/>		B <input checked="" type="checkbox"/>		No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>	2.12 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: Improvements were made to the diversion dam.

Structure Description: This structure is located approximately 1.2 miles upstream of County Rd 28 and is the last structure on the Conejos River before its confluence with the Rio Grande. It is located approximately 0.4 miles downstream of a secondary channel which receives water during high flows. If the secondary channel is captured by the river, this structure would likely be affected. Some lateral channel migration has occurred upstream of the diversion, which is located on the outside of a meander in the river, near its apex. A stacked boulder diversion dam with soil fill directs water to a short feeder channel on the south side of the channel. The diversion dam forms a barrier to fish passage, especially at low flows. It also accumulates woody debris and requires regular maintenance.

Repair(s) or Improvement(s) Currently Needed: The SMP Technical Advisory Team (TAT) recommends improving or replacing the diversion. A new diversion would function better for water users, allow sediment and debris to pass through this point in the river, and be less vulnerable to failure during high flows. The TAT also recommends incorporating fish passage into any diversion improvements to increase aquatic habitat connectivity.

Comments: This ditch is a priority 80. This is the last structure in Conejos River before its confluence with the Rio Grande.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Headgate outlet



Diversion dam looking upstream



Diversion dam looking downstream



Feeder channel looking upstream



Flume looking upstream

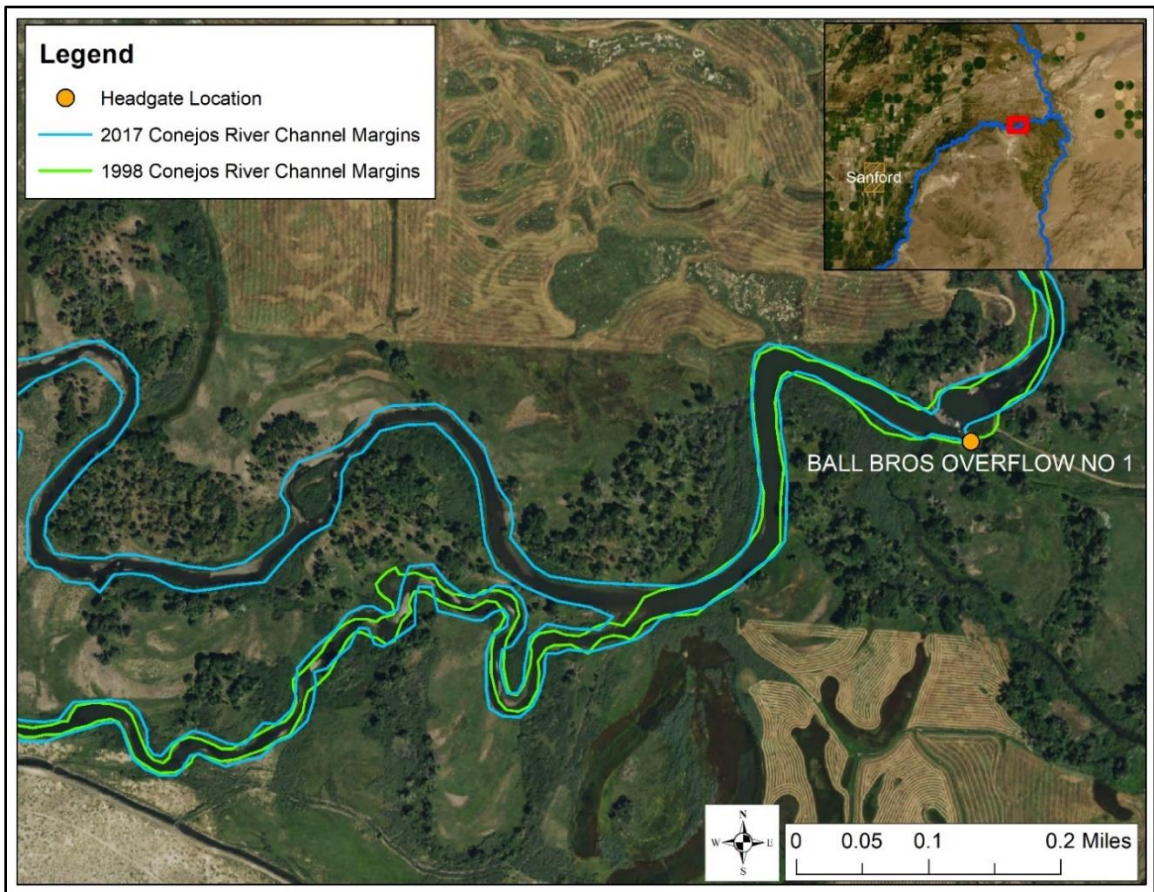


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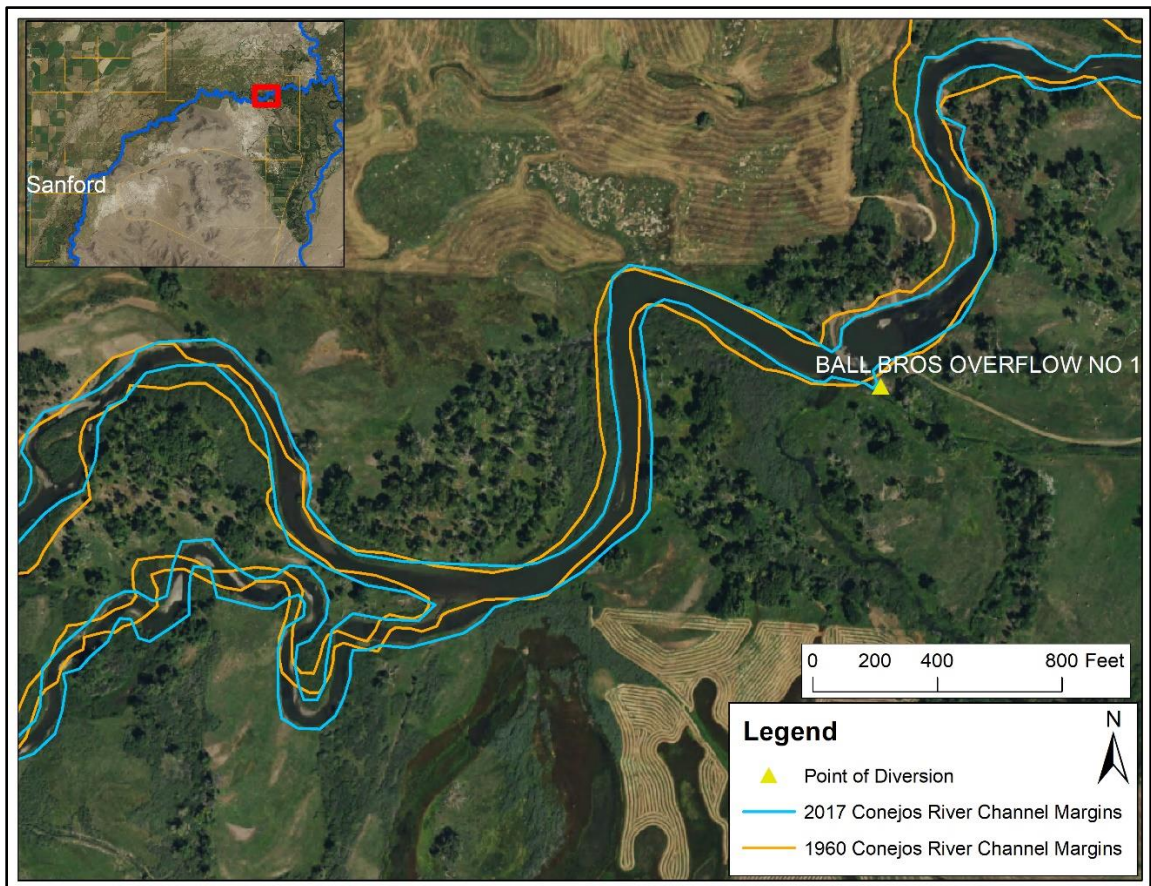
BALL BROS OVERFLOW NO 1

PHOTO LOG

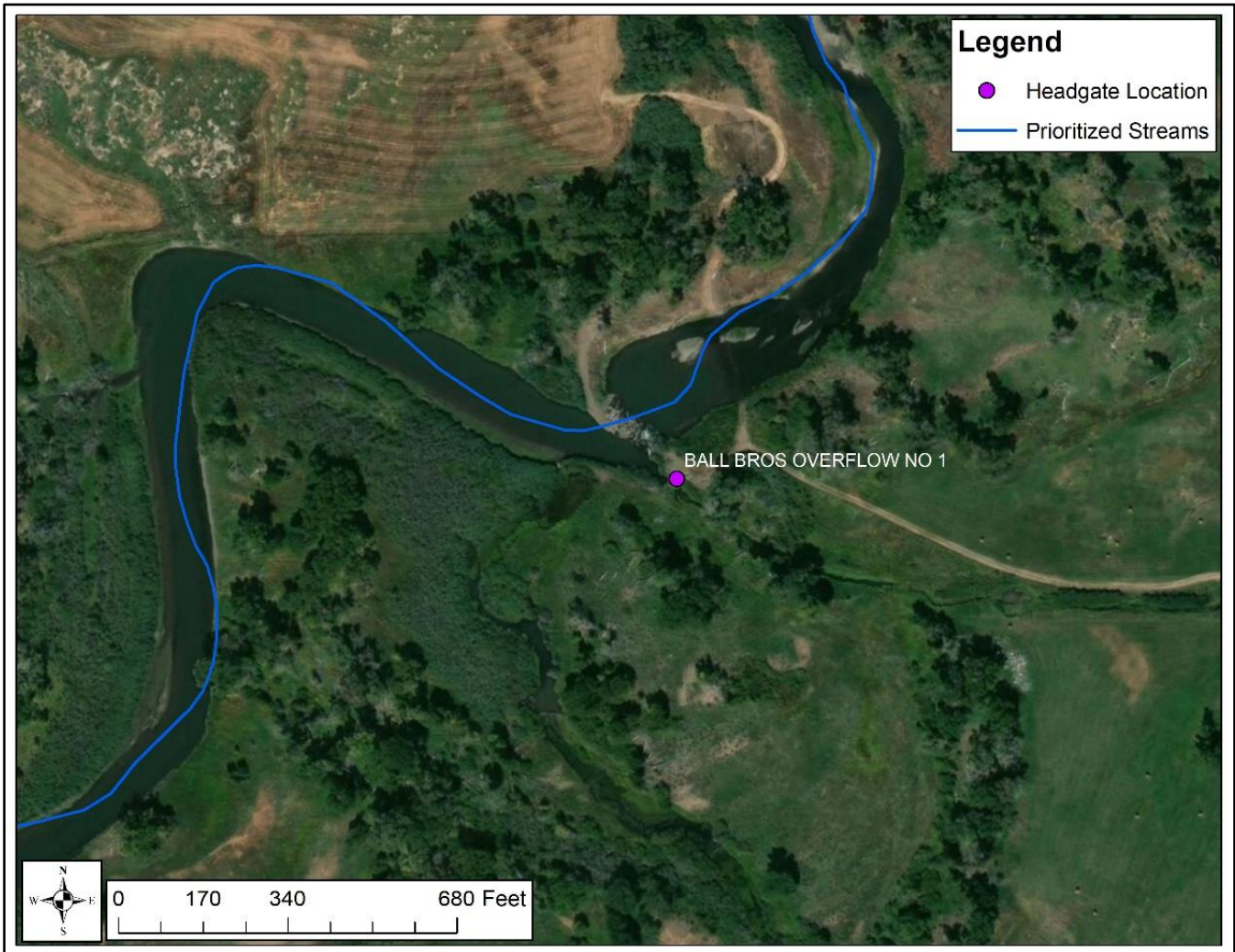
**Conejos River Stream
Management Plan**



Ball Bros Overflow No 1 with 1998 and 2017 channel margins overlaid



Ball Bros Overflow No 1 with 1960 and 2017 channel margins overlaid



Aerial image showing Ball Bros Overflow No 1. Ditch headgate and diversion dam location.