CONEJOS RIVER
DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: LOS SAUCES D

Reported By: Daniel Boyes

Date: April 16, 2019

Headgate Location:	**Latitude**	**Longitude**
	37.29446667	-105.778083

Headgate Type: Manually operated 4' wide steel slide gates (3)

Headgate Condition: A ☐ B+ ☒ C ☐ D ☐ F ☐

Diversion and other Conditions: A ☐ B ☐ C ☒ D ☐ F ☐

River Miles from Rio Grande Confluence (Point of Diversion): 3.44 mi

Structure Submerged: Yes ☒ No ☐

Repair(s) or Improvement(s) Completed Since 2006: New concrete diversion dam was installed to replace the stacked rock structure. The diversion dam now has a catwalk and sluice gate for sediment control. The headgates function well.

Structure Description: A concrete diversion dam with a sluice gate diverts water to the headgate, located on the east bank of the river. Lateral channel migration and meander cutoffs have occurred upstream of the structure, especially prior to 1998 (see report card). Upstream of the diversion, a secondary channel is partially cut off, but still receives water at high flows. If this secondary channel is captured by the river, this structure would be cut off. Additionally, there is an island just upstream of the structure that formed when the river partially cut off a meander. The meander may eventually be completely cut off. If this occurs, the bank on either side of the headgate will be exposed to high flows which may cause erosion issues at the structure. Three j-hooks upstream of the structure help to stabilize the bank. Sediment and woody debris accumulation is a significant issue at this structure. Debris accumulates on the diversion dam and poses a maintenance challenge, particularly when it accumulates near the sluice gate and headgate. The measurement structure is in poor condition.

Repair(s) or Improvement(s) Currently Needed: Given these issues, the SMP Technical Advisory Team (TAT) recommends a long-term solution to prevent debris accumulation and replacing the measurement device. Additional bank stabilization and riparian restoration upstream of the structure would improve river function by reducing erosion and sedimentation at the diversion dam and headgate as well as enhancing aquatic habitat. The TAT also recommends incorporating fish passage into any diversion improvements to increase aquatic habitat connectivity.

Comments: This ditch is a priority 32.

Notes:

Estimated Range of Cost: Medium

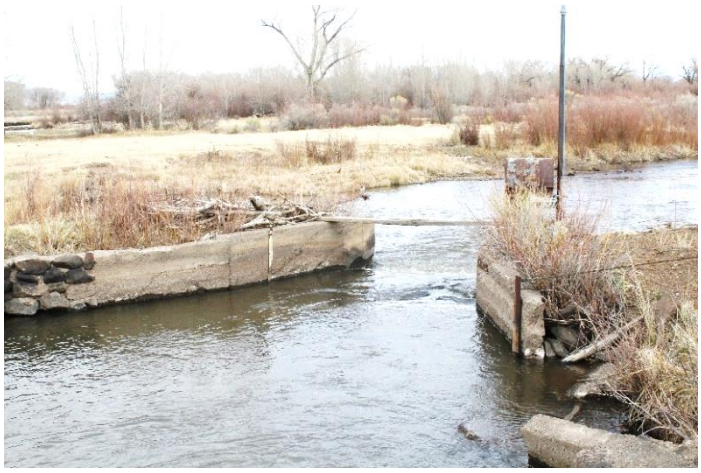
Headgate looking downstream

Headgate and diversion dam

Headgate outlet

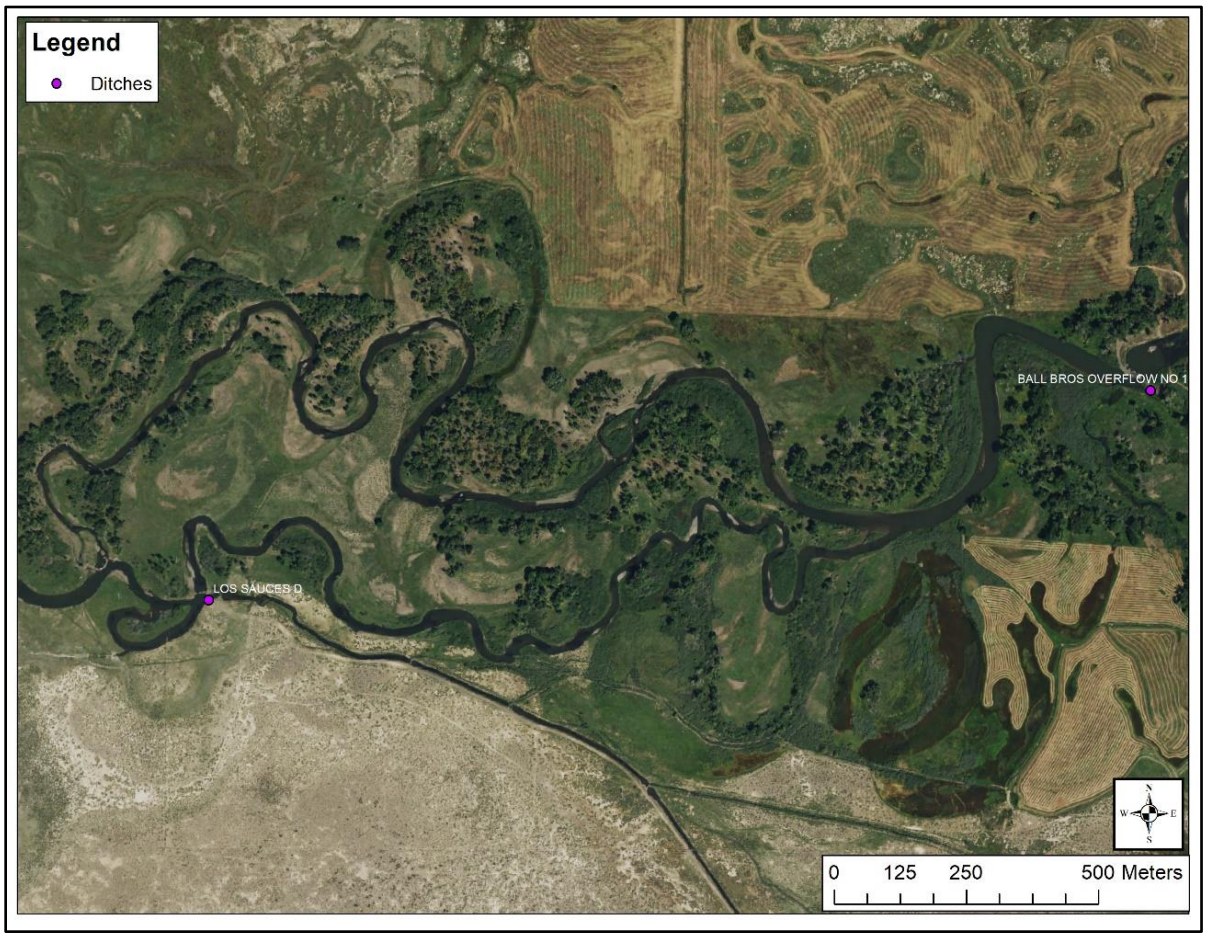
Diversion dam and headgate looking upstream

Flume looking downstream



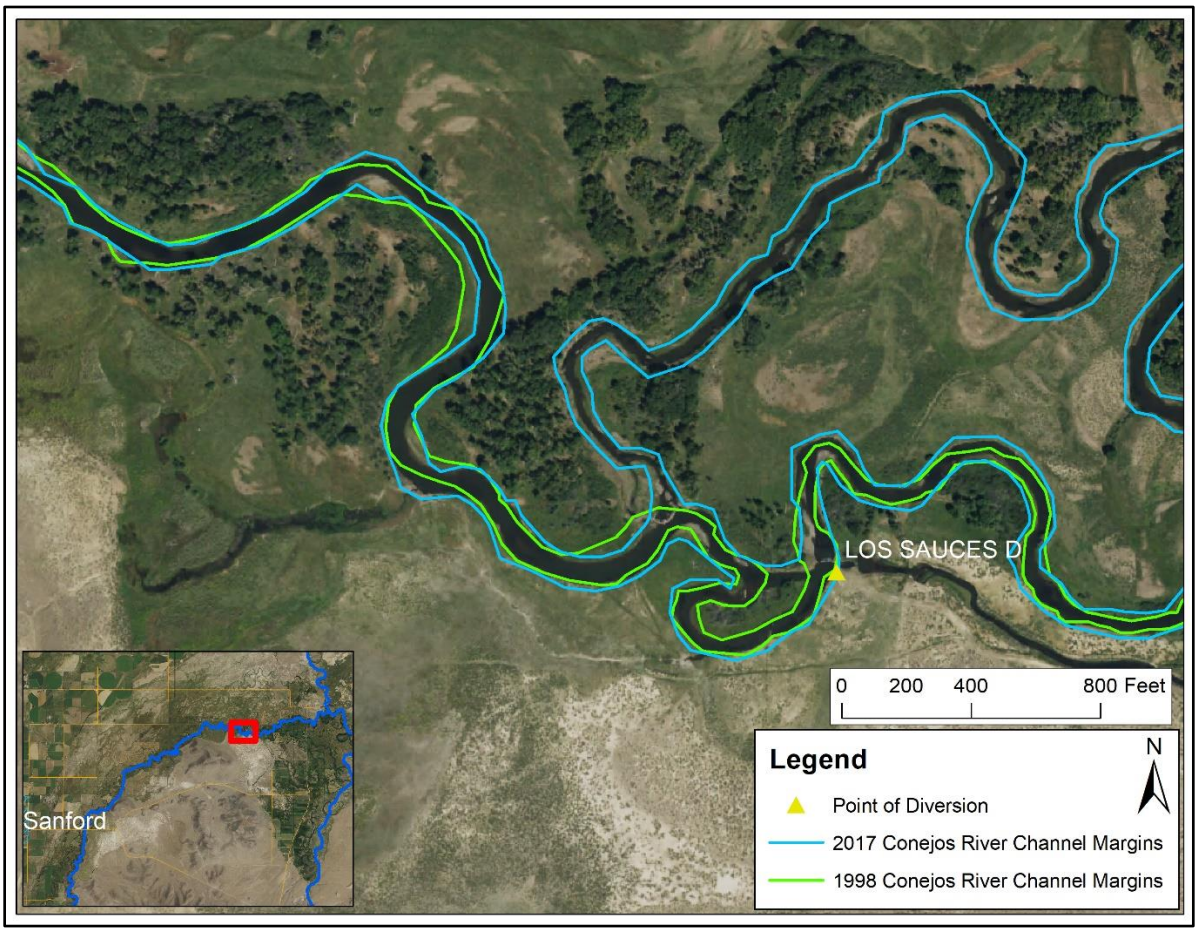
Flume looking upstream

CONEJOS RIVER DIVERSION INFRASTRUCTURE INVENTORY	Conejos River Stream Management Plan
LOS SAUCES DITCH	
PHOTO LOG	

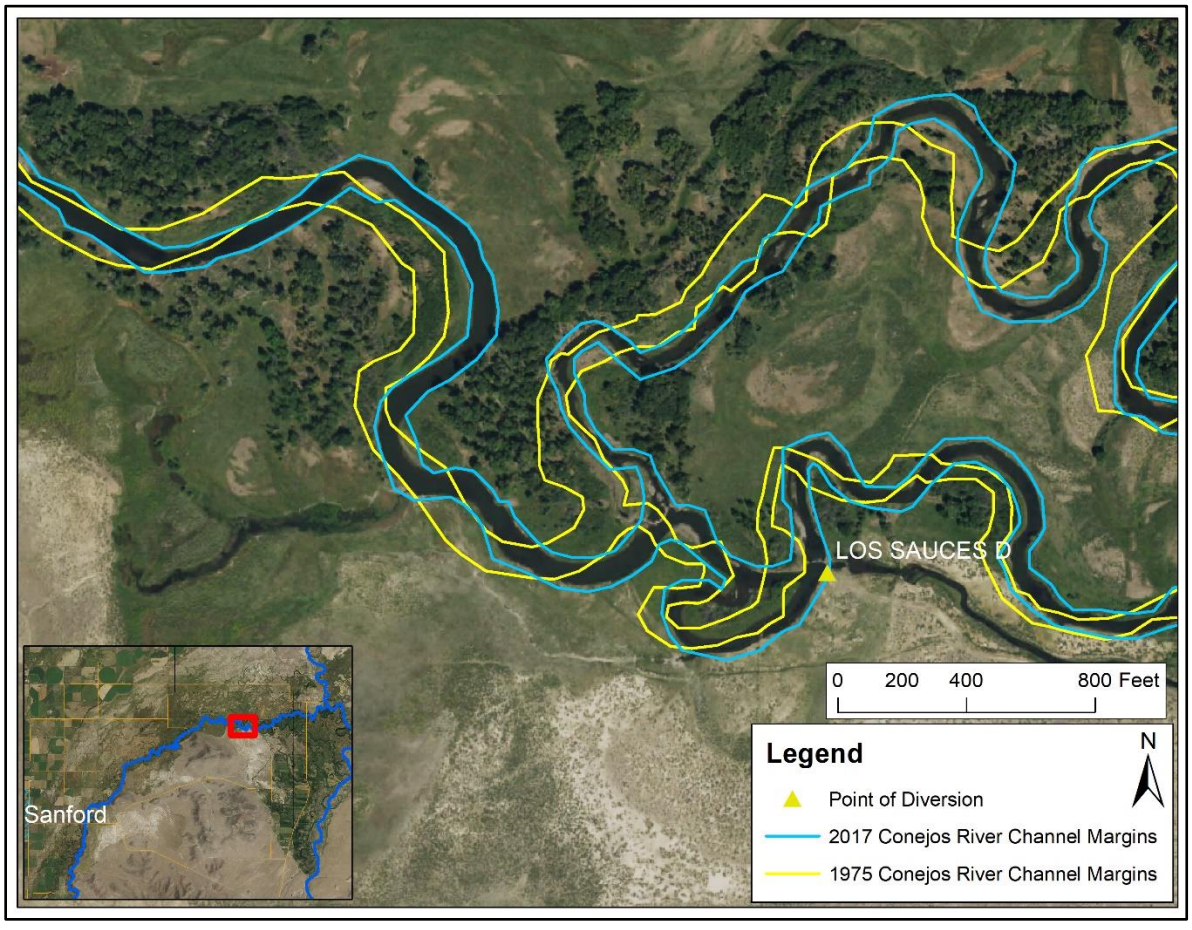


Aerial image showing Los Sauces Ditch relative to Ball Bros Overflow No 1.

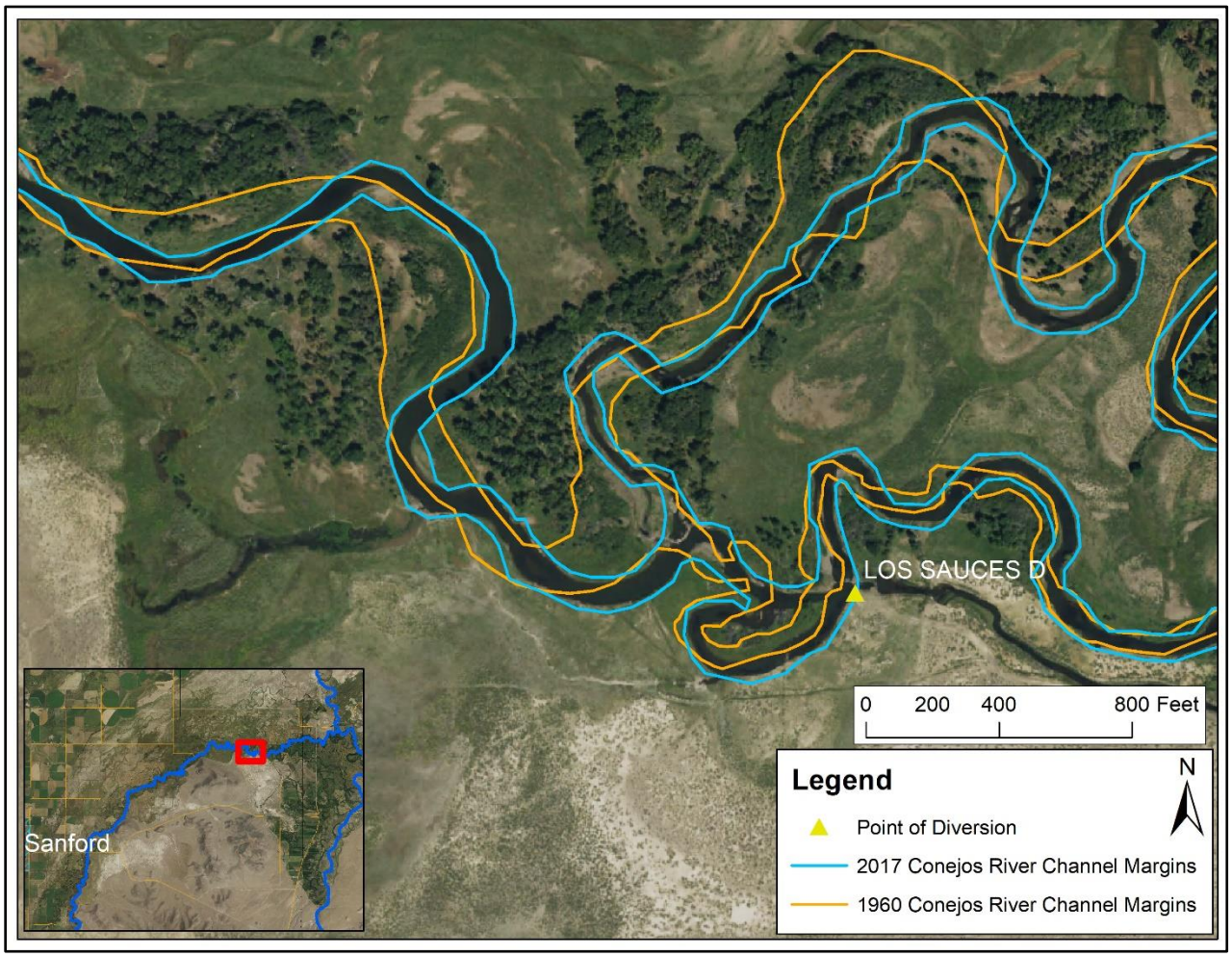
River upstream of Los Sauces Ditch, showing j-hooks.



Map of headgate location with 1998 and 2015 channel margins overlaid.



Map of headgate location with 1975 and 2015 channel margins overlaid.



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