CONEJOS RIVER
DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: WILLIAM STEWART COMPANY IRRIGATION D

Reported By: Daniel Boyes

Date: April 16, 2019

Headgate Location:	**Latitude**	**Longitude**
	37.297761	-105.797052

Headgate Type: Manually operated 2' wide steel slide gate

Headgate Condition:		**Diversion and other Condition:**		**River Miles from Rio Grande Confluence (Point of Diversion):**	**Structure Submerged:**	
	A ☐		A ☐			Yes ☐
	B ☐		B ☐			No ☒
	C ☒		C ☐			
	D ☐		D ☒	5.65 mi		
	F ☐		F ☐			

Repair(s) or Improvement(s) Since 2006: Regular maintenance on the diversion dam and feeder channel.

Structure Description: The diversion for this structure is located between two wide meanders and is made of river sediment (sand and small gravel-dominated). It directs water to a feeder channel on the north side of the river. The feeder channel is approximately 0.46 miles long and delivers water to the headgate. On the feeder channel, a diversion made of stacked rock and debris directs water to the headgate, located on the north side of the feeder channel. This structure is located on a very flat part of the river. Significant sedimentation is occurring in the main channel of Conejos River and in the feeder channel. The main channel is modified on an annual basis in order to deliver water to the feeder channel. Significant bank erosion is occurring just upstream of the diversion dam (see photo in report card). Additionally, the main channel has migrated significantly in the past, and future lateral migration and meander cutoffs are likely.

Repair(s) or Improvement(s) Currently Needed: The SMP Technical Advisory Team (TAT) recommends an improved diversion dam and headgate, a sluice gate, and riparian revegetation. A new diversion would deliver water at various flows, reduce annual maintenance, and improve river function by enhancing sediment transport and aquatic habitat. A sluice gate adjacent to the headgate would reduce sedimentation and maintenance. The TAT also recommends incorporating fish passage into any diversion improvements to maintain aquatic habitat connectivity. Riparian revegetation would reduce erosion and improve river health. A useful reference and potential model is the Alamo Ditch, the next structure upstream.

Additional Comments: This ditch is a priority 43.

Notes:

Estimated Range of Cost: High

Headgate looking downstream

Headgate and diversion dam (on feeder ditch)

Diversion dam on feeder ditch

Diversion dam looking downstream

Diversion dam looking upstream

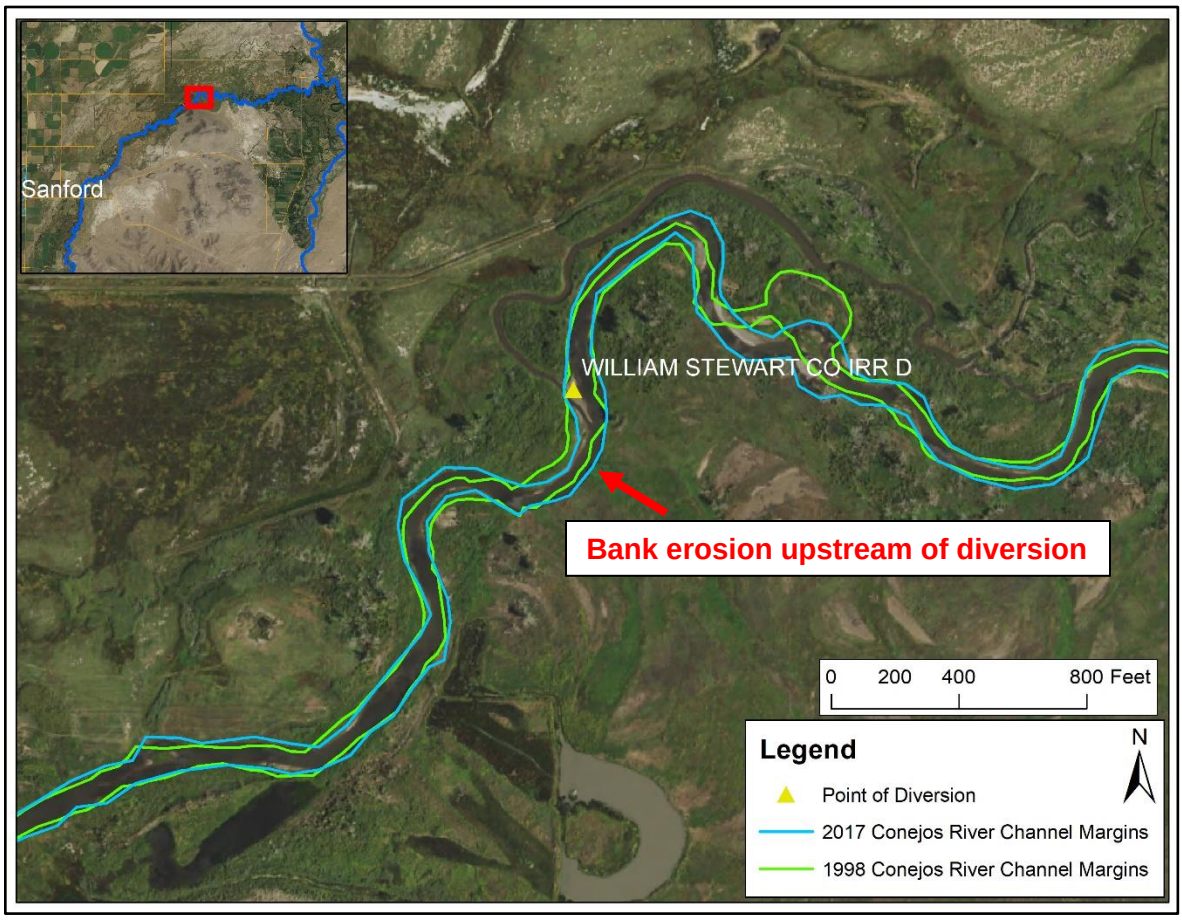
Parshall flume looking downstream

CONEJOS RIVER DIVERSION INFRASTRUCTURE INVENTORY

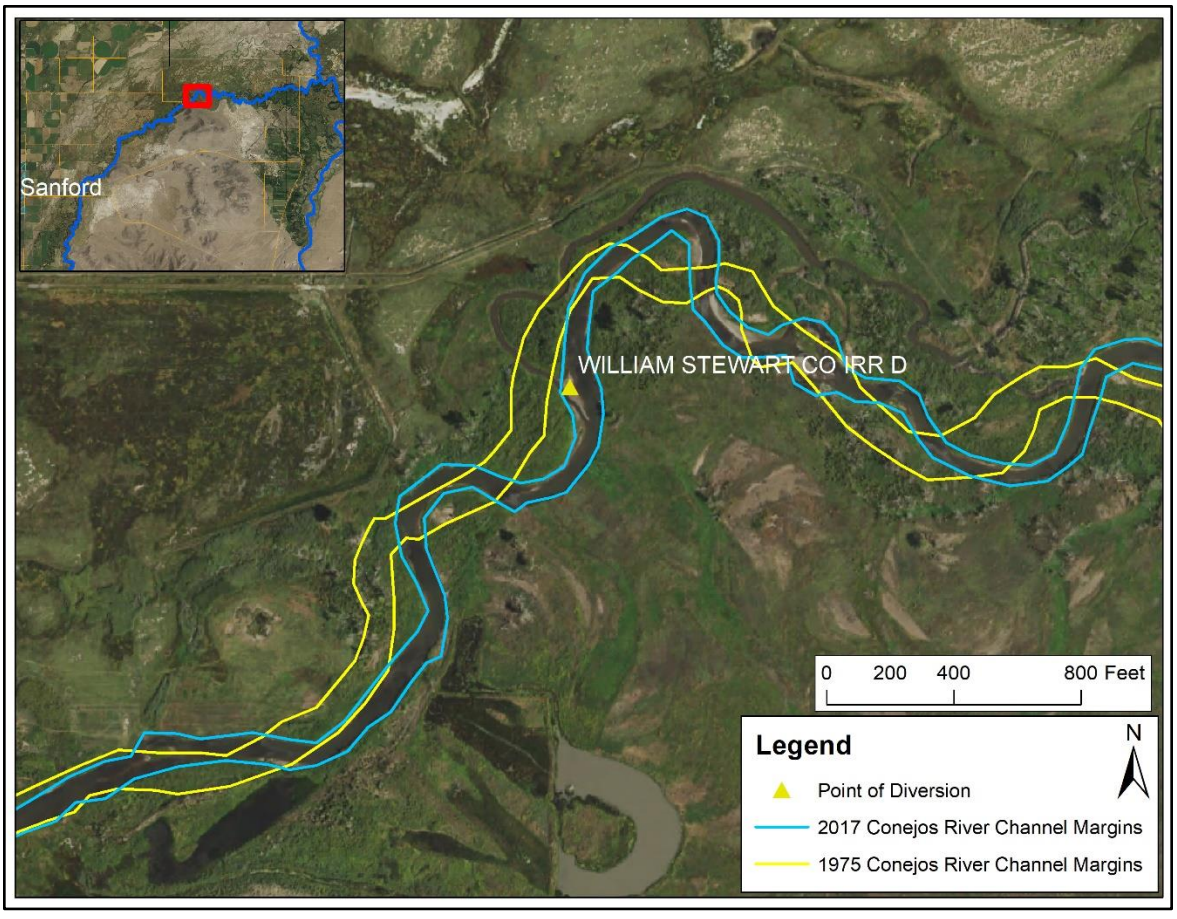
WILLIAM STEWART CO IRR DITCH

PHOTO LOG

Conejos River Stream Management Plan



Headgate location with 1998 and 2015 channel margins overlaid.



Headgate location with 1975 and 2015 channel margins overlaid.