

SAGUACHE CREEK DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: MONK D 3

Reported By: Daniel Boyes

Date: April 12, 2019

Headgate	Latitude	Longitude
Location:	38.124837	-106.373492

Headgate Type: Manually operated 3' wide screw gate

Headgate Condition:	A <input type="checkbox"/>	Diversion and Other Condition:	A <input type="checkbox"/>	Stream Miles from Saguache Creek Terminus (Point of Diversion):	Structure Submerged: Yes <input type="checkbox"/>
	B <input type="checkbox"/>		B <input type="checkbox"/>	57.53 mi	No <input checked="" type="checkbox"/>
	C <input type="checkbox"/>		C <input checked="" type="checkbox"/>		
	D <input checked="" type="checkbox"/>		D <input type="checkbox"/>		
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Structure Description: This diversion is located at the apex of a meander. A narrow boulder diversion dam directs water to the headgate, which is located on the north bank of the stream. The headgate is tilted and difficult to operate. The dam constricts the channel, leading to downstream scour and forming a barrier to fish passage at low flows. An island has formed due to the scour pool and subsequent sediment deposition just downstream of the pool. This has caused the channel downstream of the diversion to become wide and shallow. Downstream of the diversion, there are several streambanks that are sloughing and channel avulsion is likely but would not affect downstream structures.

Repair(s) or Improvement(s) Currently Needed: The SMP Technical Advisory Team (TAT) recommends replacing the diversion and resetting the headgate for ease of use. The TAT also recommends creating fish passage at this location. A new diversion could be rebuilt to be wider and shorter to minimize its impact on the stream and allow for fish passage.

Comments: This ditch includes priorities 22 and 94, both of which are alternate priorities.

Notes:

Estimated Range of Cost: Medium

Headgate looking downstream



Headgate outlet



Channel downstream of diversion dam



Diversion dam



Channel upstream of diversion dam



Flume looking downstream



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PHOTO LOG

Saguache Creek Stream Management Plan



Headgate location and surrounding stream channel



Close-up of headgate and diversion dam. This image illustrates the channel constriction caused by the diversion dam and resulting effects on the stream.