SAGUACHE CREEK
DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: GEORGE BALL D

Reported By: Daniel Boyes

Date: April 3, 2019

Headgate Location:	**Latitude**	**Longitude**
	38.06525	-106.10316

Headgate Type: Manually operated 3' wide rectangular screw gate

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

Diversion and Other Condition: A ☐ B ☐ C ☐ D ☒ F ☐

Stream Miles from Saguache Creek Terminus (Point of Diversion): 18.21 mi

Structure Submerged: Yes ☐ No ☒

Structure Description: A diversion dam composed of t-posts, a utility pole, and rocks diverts water to the headgate, which is located on the south bank. The headgate leaks and is in poor condition. Woody debris accumulates on the dam, making it difficult to adjust head pressure. The streambank downstream of the diversion is eroding and may cause the entire headgate to wash out at high flows. Additionally, during a high flow event, it is possible that the stream could intercept a historic channel beginning just downstream of Quartet Ditch. If this occurs, it would cause the stream to bypass the George Ball headgate. The flume measures accurately but is tilted and severely eroded on its downstream side.

Repair(s) or Improvement(s) Currently Needed: Given the issues identified at this structure, the SMP Technical Advisory Team (TAT) recommends implementing bank stabilization and riparian revegetation, repairing the headgate and flume, and installing a new diversion. Stabilization and revegetation upstream would help prevent the meander from being cut off and downstream stabilization would help prevent channel widening and potential dam and headgate failure. Flume repairs would improve long-term functionality. A new diversion would reduce maintenance and allow sediment and debris to pass through the system. Alternatively, the point of diversion could be combined with the diversions belonging to the Wall and Hearn ditches. The three diversions are located within 900 ft of one another. Consolidation of these diversions would reduce both maintenance and sediment transport impacts.

Comments: This ditch is a priority 36. This ditch also serves Turnbull Luengen Ditch, Hodgson Ditch 1 and Hodgson Ditch 2.

Notes:

Estimated Range of Cost: Medium-High

Headgate looking downstream

Headgate outlet

Headgate and diversion dam

Diversion dam

Flume looking downstream

Flume looking upstream

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GEORGE BALL DITCH

PHOTO LOG

Saguache Creek Stream Management Plan