

A photograph of a flume structure in a rural setting. The flume consists of several parallel metal bars across a channel of water. To the left is a grey metal building with a window. The channel is bordered by tall grasses. In the background, there are white silos under a clear blue sky.

# Frontier Flume Upgrade

Callan Izatt, Kansas DWR

## INTRODUCTION AND SUMMARY

This memo is to document the telephone conversation and action items some of us discussed on July 21, 2017 regarding recent problems with submergence issues at the Frontier Ditch. The Frontier Ditch gage is one of two gages that comprise the Stateline flow. The other gage is the Arkansas River near Coolidge, KS. See Map Attached. The USGS maintains both of these gages.

The discussion initially started with submergence being associated with Frontier Parshall flume being beyond its useful life. Kevin and Lori (USGS) both noted that the submergence issue was not caused by the Parshall flume or checks placed in the ditch below that flume. They believe that the submergence

Engineering Evaluation of Performance Conditions at Frontier Ditch, KS  
prepared for the  
Arkansas River Compact Administration

November 2017

Prepared by Division 2 Hydrography Program







October 8, 2024







# Cost Estimates

Supplier	Material	Total Cost
Stampede	Concrete	\$36,156
Carrigan	Concrete	\$39,365
OCF	Stainless Steel	\$59,226
IEI	Stainless Steel	\$60,047

These estimates include installation and shipping costs. The Stampede quote also includes a concrete gage house.

# Funding

## Reclamation WaterSMART Grant

- Small-Scale Water Efficiency Program (SWEPP)
- Regular deadlines in January and July
- January deadline > Recipients announced in May > Awards in October
- Would require 50% cost-share

## Other

- ARCA funding
- Other funding sources





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