Dam Break Scenario August 1, 2021
Millet Swale Pond, Piping and release of contents
Little Colorado Drainage, somewhere near Snowflake/Taylor Area, AZ

Navajo County, AZ
AZ00059

Easiest Searching entire RFC for the name in 'Dam Catalog Interface

Custom Run is best option to tweak parameters

Twitter Video

https://twitter.com/NavajoCountyAZ/status/1419473894428184582?ref_src=twsrc%5Etfw%7Ctwcamp%5Etweetembed%7Ctwterm%5E1419473894428184582%7Ctwgr%5E%7Ctwcon%5Es1_c10&ref_url=https%3A%2F%2Fpublish.twitter.com%2F%3Fquery%3Dhttps3A2F2Ftwitter.com2FNavajoCountyAZ2Fstatus2F1419473894428184582widget%3DTweet

Arizona Newspaper Photos

https://arizonadailypress.com/residents-south-of-snowflake-warned-of-the-risk-of-flooding-after-the-dam-breach-arizona-news/

What we knew:

1. The amount of water in the dam was 320 acft.

2. The dam failed over a period of time > 1 hour. The breach was small.

Solution:

Assume that the failure time was = 1 hour and force the flow with volume = 320 acft to occur in a single hour. So,

Mean hourly flow = 320 acft/hour*(12 cfs/(acft/hour) = 3840 cfs / hour

Or the flow was 3840 cfs over one hour of time. (This number is an average number in an hour, Peak flowswould be a little higher). The key here is how long the water took to empty out of the dam. For example, if it took

30 minutes the max flow would have been double. I'm guessing it took longer than 1 hour, probably closer to 3-4 hours
for most of the water to move through the breach (the key information is that the dam owner felt it was taking longer
than expected). Actual peak flows may have been closer to 2000 cfs.