

Bandelier National Monument
Los Alamos, New Mexico 87544

A7627

July 7, 1977

Memorandum

To: Files, Bandelier

From: Chief, I & VS, Bandelier

Subject: Flooding Report Alamo Canyon

On 7/5/77 there was flash flooding in the monument.

Archeologist Diane Traylor from the Alamo dig reported via radio that:

On 7/5/75 at 2:30 received a Flash Flood in Alamo Canyon - water was black with ash. Water was flowing heavily out of both Lumis and Alamo Canyons.

Water flow in Alamo was 10-12' wide and 4' deep at crest.

Was considerable erosion and the stream bed has changed some.

On 7/6/77 at approximately 1930 hrs., the archeology crew conducted readings and reported the following data:

See attached sheet.

Janice A. Wobbenhorst

✓cc: Lissoway

RANDOM - AVERAGE HEIGHT AND DEPTH OF FLASH FLOOD
TRANSECTS OF ALAMO AND LUMMIS CANYONS APPROXIMATE
1/2 MILE FROM MOUTH UP-CANYONS

LUMMIS

Point below LA 12125 to Mouth

H .90 M
W 11.80 M

H 1.20 M
W 9.40 M

H 1.15 M
W 9.80 M

Widest Point of Transect 22.70 M

H .75 M
W 12.10 M

H 1.20 M
W 7.70 M

H 1.30 M
W 15.30 M

H 1.60 M
W 8.60 M

H .75 M
W 17.70 M

H .90 M
W 20.50 M

Mouth of Lummis H 1.05 M
W 19.60 M

Camp to Burro Fence

N. of Camp - Main Channel 19.70 M
Channel branches at this point to widest point.

Fence still standing - lowest strand and anchors broken at channel.
Channel cleared of debris and widened.

At Fence W 17.75 M
H .80 M

ALAMO

Mouth to Alamo Bottoms

A.B. to Burro Fence

H .50 M
W 23.0 M

H .60 M
W 36.0 M

H .85 M
W 7.60 M

H .92 M
W 9.5 M

Delta extends half way across
Rio-Channels have changed.

At Mouth of Lummis, Dunes are deeply
eroded; roots of piñon and juniper
extend.

Lummis appears to have been carrying more
water..

Large logs and thick ashy deposit carried
in flow. Soil erosion up-canyon seems
great based on clay and sand carried
down.