

Arizona Public Service Company CCR Program Environmental Policy & Programs PO Box 53999 Mail Station 9303 Phoenix, AZ 85072-3999 Telephone: 602-250-1000

December 20, 2022

#### CCR Program Documentation CH\_EAPMeeting\_020\_20221207

Subject: EAP – Documentation of Annual Exercise – Cholla

This document serves as Notification of an annual face-to-face meeting or exercise between representatives of APS and local emergency response agencies as required by 40 CFR 257.73(a)(3)(i)(E). The exercise was coordinated with and by the local emergency response agency with jurisdiction, and as described in the Emergency Action Plan.

#### Attendees:

#### Participants:

Brent Young (facilitated) Cholla Fire Chief, Incident Commander Matthew Click, Cholla Planner
Brian Gardner, Safety Consultant
Sam Nelson, Supervisor of Engineering
Pam Norris, Environmental Section Leader
Cody Miller, Environmental Sr Scientist
Catrina Jenkins (Navajo County LEPC)

 From:
 Norris, Pamela J

 To:
 Miller, Cody L; Zito, Lori

 Cc:
 Young, Brent S

Subject: Cholla Emergency Action Plan Dam Drill

Date: Wednesday, December 7, 2022 2:42:25 PM

Attachments: jmage001.png

Attendance for Emergency Action Plan Dam Drill:

Catrina Jenkins, Navajo County LEPC

Brent Young, APS Fire Chief

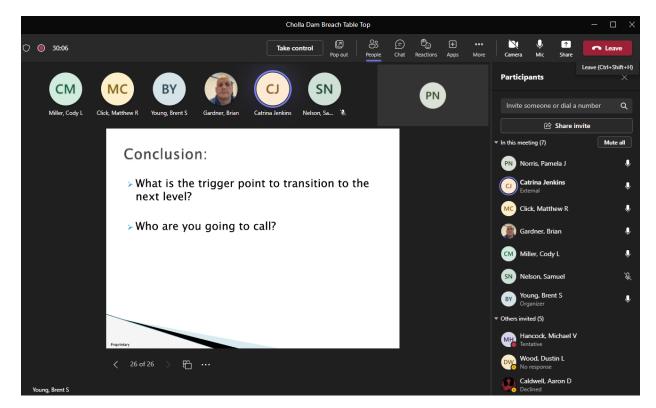
Sam Nelson, Engineering Supervisor (EAP Coordinator)

Matthew Click, Cholla Planning

Brian Gardner, Cholla Safety Consultant

Cody Miller, Cholla Environmental Scientist

Pam Norris, Cholla Environmental Section Leader



Thank you,

Pam

Environmental Section Leader – Coal Generation Cholla and Four Corners Power Plants



## Emergency Action Plan for Cholla Power Plant Dams

Dec. 7, 2022

### Scenario for Drill

- It has been raining continuously for the last 7 days.
- Both the Fly Ash and Bottom Ash ponds are at full capacity.
- There is a seismic event that causes both the Bottom Ash and Fly Ash ponds to fail.

## Three types of alerts

- > 1. Green Alert
- 2. Yellow Alert
- > 3. Red Alert

### Definition of a GREEN Alert

- Significant new or increased seepage or sand boils downstream from the embankment.
- Pond level is RAPIDLY falling without apparent cause.
- New, or slowly increasing seepage rates transporting some sediment and/or unusual discoloration (higher turbidity readings) of seepage.
- New cracks or cracks significantly increasing in length, width, or offset.
- Cracking is the beginning of a large slide.
- Large deformations or slides Potential for breach of impoundment.

#### Green Alert

- > Is a **slow** evolving event.
- Something unusual is happening.
- > There is the **potential** for impoundment breach.
- Current conditions are not serious but could progress into a potential impoundment failure if it continues or intensifies.

## Level Green Notification

#### GREEN ALERT CONTACT TELEPHONE NUMBERS APS RESPONSIBILITY FOR CALLING

Switchyard	Scott Richey 928-587-4082	
APS Management and Plant Personnel	7711	
Arizona Department of Public Safety (DPS) - Emergency Operations Command (EOC)	602-223-2212	
DPS - Highway Patrol - Holbrook (District 3)	928-773-3700	
Navajo County Sherriff's Department Dispatch	928-524-4050	
Burlington Northern Santa Fe Dispatcher	1-800-795-2673	
Navajo County Department of Emergency Management		
	Catrina Jenkins 928-524-4163 Rhonda Krouse 928-414-1962 Kym O'Farrell 928-414-1310	
Arizona Department of Water Resources - Dam Safety Program	Waleed Aboshanp 602-771-8418 (office) 480-388-9560 (cell)	
	Ravi Murthy 602-771-8656 (office) 602-692-5162 (cell)	

## Definition of a YELLOW Alert

- RAPIDLY increasing seepage and or movement of large quantities of material.
- Sinkholes or settlement RAPIDLY increasing in size and number.
- Whirlpool or other signs of the pond draining RAPIDLY.
- Cracks with flow through them.
- Large deformations and breach of impoundment.

### Level Yellow Alert

#### Rapidly Developing Situation

- Conditions are serious (more than a GREEN condition).
- Notify 24-hour operating staff. (Unit #3 Control Room)
- The condition is becoming unstable.
- Initiate Level YELLOW notifications
- Populations at risk SHOULD be notified to stand by, prepare to leave, and await further instructions.
- Evacuations in low-lying areas may be required.

## Level Yellow Notification

YELLOW ALERT CONTACT TELEPHONE NUMBERS  CALLING	APS RESPONSIBILTY FOR
Navajo County System Dispatch	9-1-1
Switchyard	Scott Richey 928-587-4082
APS Management and Plant personnel	7711
Hunt Families (Dennis and Boyce)  Jack Rabbit	Dennis - 928-288-3274 Boyce - 928-288-3620 Tony – 928-288-3230
Arizona Department of Water Resources - Dam Safety Program	Waleed Aboshanp602-771-8418 (office)
	480-388-9560 (cell)
	Ravi Murthy602-771-8656 (office)
	602-692-5162 (cell)
Arizona Department of Environmental Quality - APP	602-771-2330
Environmental Protection Agency - Region 9	415-947-4400
YELLOW ALERT CONTACT PHONE NUMBERS  FOR CALLING  9-1-1 SYSTEM DISPATCH RESONSIBLITY	
DPS - Highway Patrol - Holbrook (District 3)	928-773-3700
DPS - Emergency Operations Command (EOC)	602-223-2212
Navajo County Sherriff's Department Dispatch	928-524-4050
Burlington Northern Santa Fe (BNSF) - Dispatcher (Railroad)	1-800-795-2673
Navajo County Department of Emergency Management and Preparedness	Catrina Jenkins 928-524-4163 Kym O'Farrell 928-414-1310 Rhonda Krouse 928-414-1962

### Definition of a Red Alert

#### > FAILURE IS IMMINENT

It has been determined that the (\_\_\_\_\_) WILL FAIL, IS OCCURING, OR HAS OCCURRED; LIFE THREATENING FLOOD WATERS HAVE BEEN OR WILL BE RELEASED.

Life threatening releases will affect populations at risk.

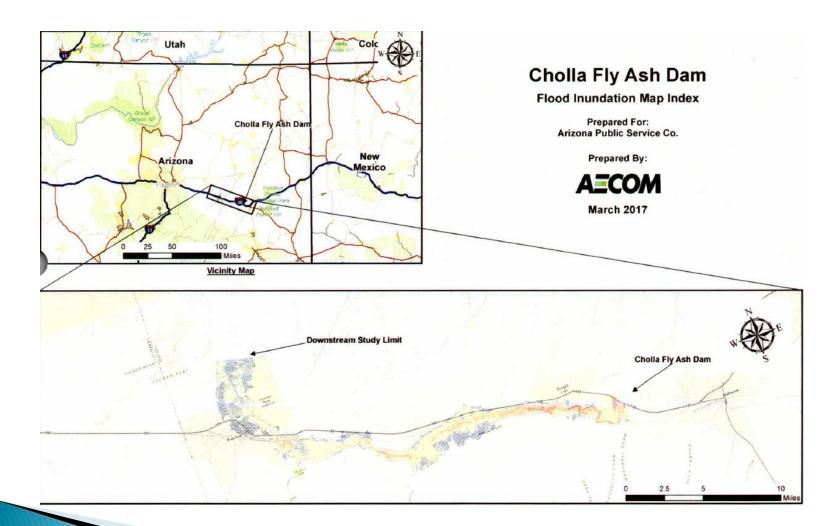
Immediate evacuation of populations at risk is necessary.

Initiate Level RED notifications

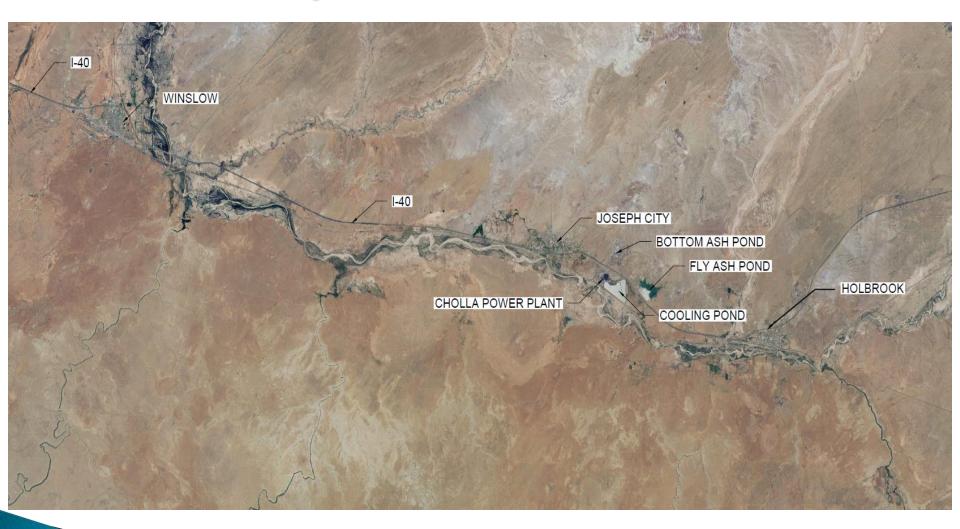
## **Red Level Notification**

RED ALERT CONTACT TELEPHONE NUMBERS	APS RESPONSIBILTY FOR CALLING
Navajo County System Dispatch	928-524-4050
APS Switchyard	Scott Richey 928-587-4082
APS Management and Plant personnel	7711
Hunt Families (Dennis and Boyce)  Jack Rabbit	Dennis - 928-288-3274 Boyce - 928-288-3620 Tony- 928-288-3230
Arizona Department of Water Resources - Dam Safety Program	Waleed Aboshanp602-771-8418 (office)
	480-388-9560 (cell)
	Ravi Murthy602-771-8656 (office)
	602-692-5162 (cell)
Arizona Department of Environmental Quality - APP	602-771-2330
Environmental Protection Agency - Region 9	415-947-4400
RED ALERT CONTACT PHONE NUMBERS FOR CALLING	9-1-1 SYSTEM DISPATCH RESONSIBLITY
DPS - Highway Patrol - Holbrook (District 3)	928-773-3700
DPS - Emergency Operations Command (EOC)	602-223-2212
Navajo County Sherriff's Department Dispatch	928-524-4050
Burlington Northern Santa Fe (BNSF) - Dispatcher (Railroad)	1-800-795-2673
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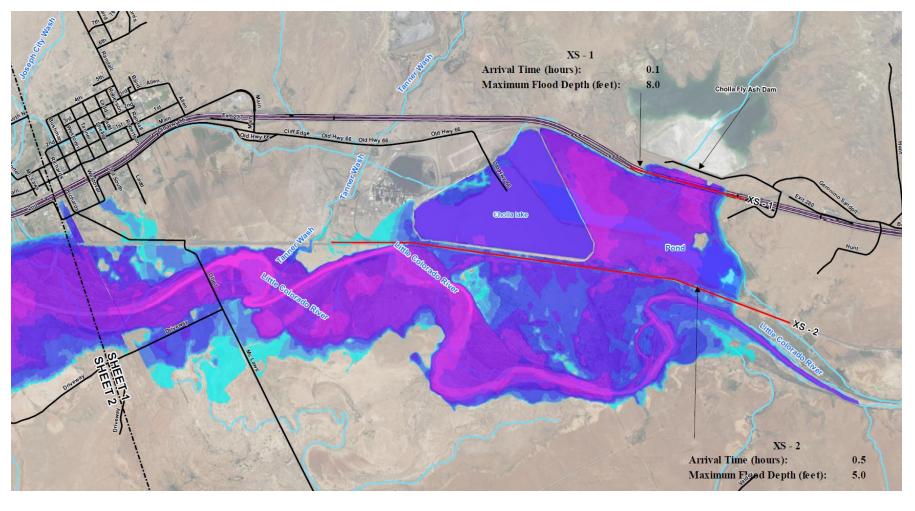
# Flood Inundation Map Index



## Map of effected area

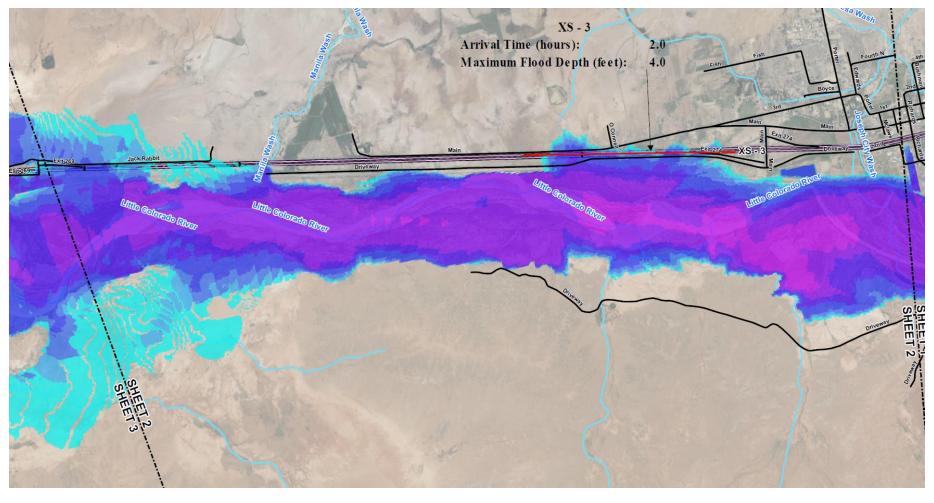


## 6 to 30 minutes after breach

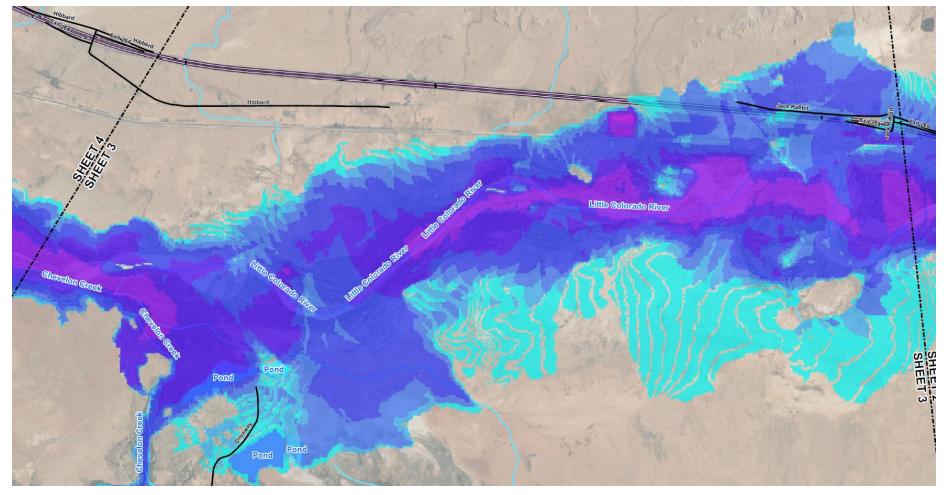




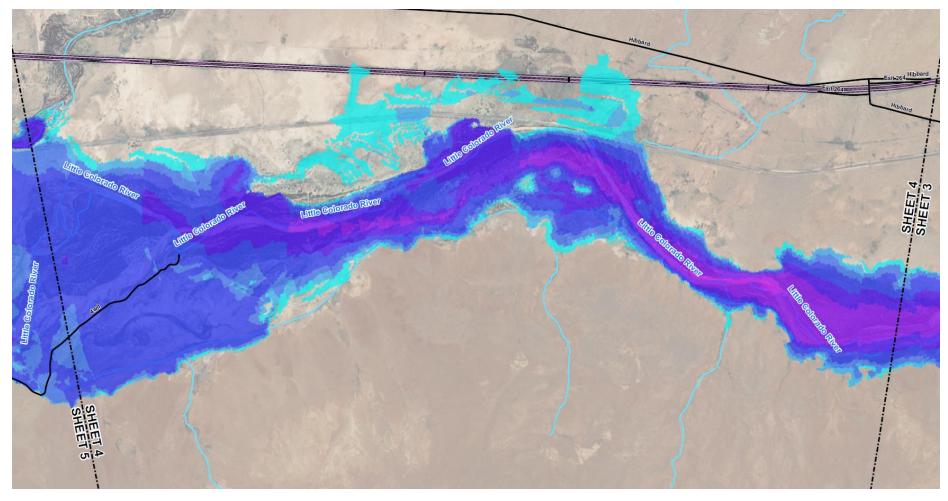
## 2.0 hours after breach





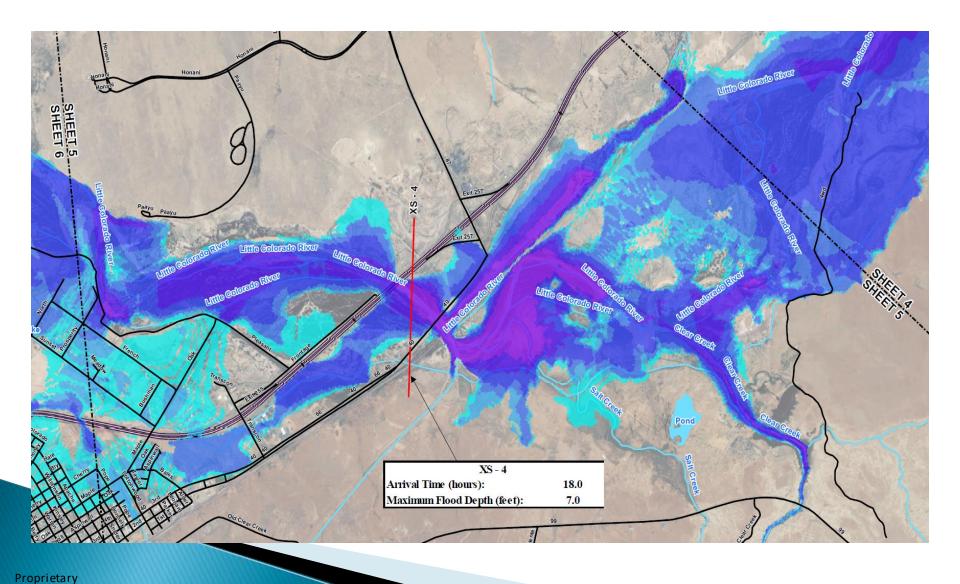


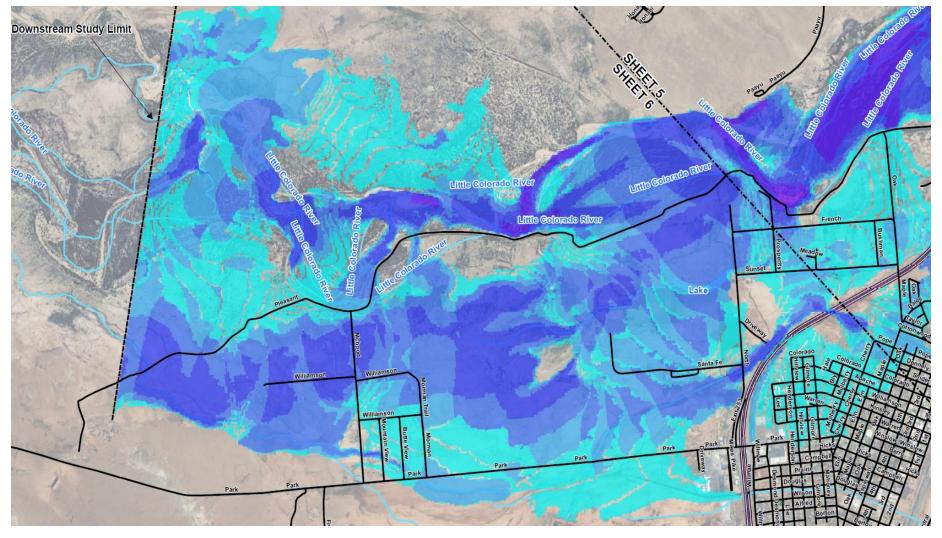






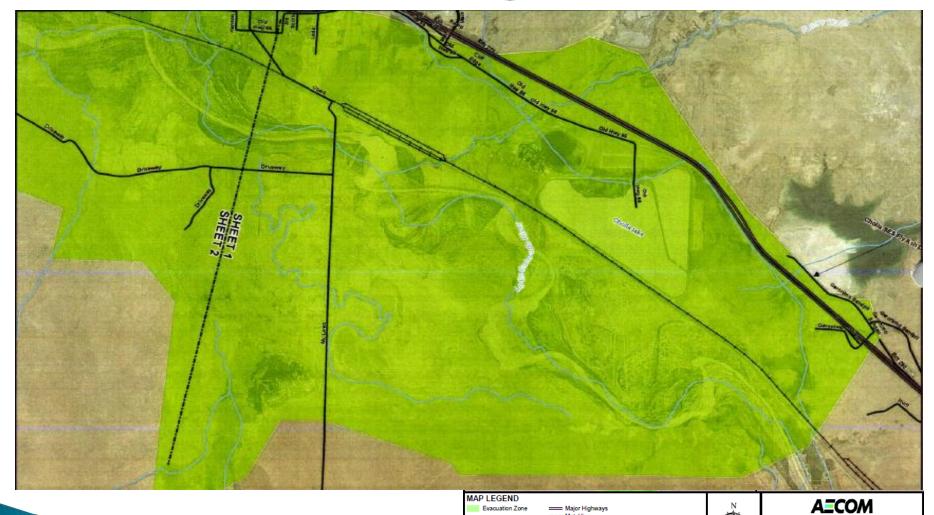
## 18.0 hours after beach







## Evacuation Area (Page 1)



-- Matchline

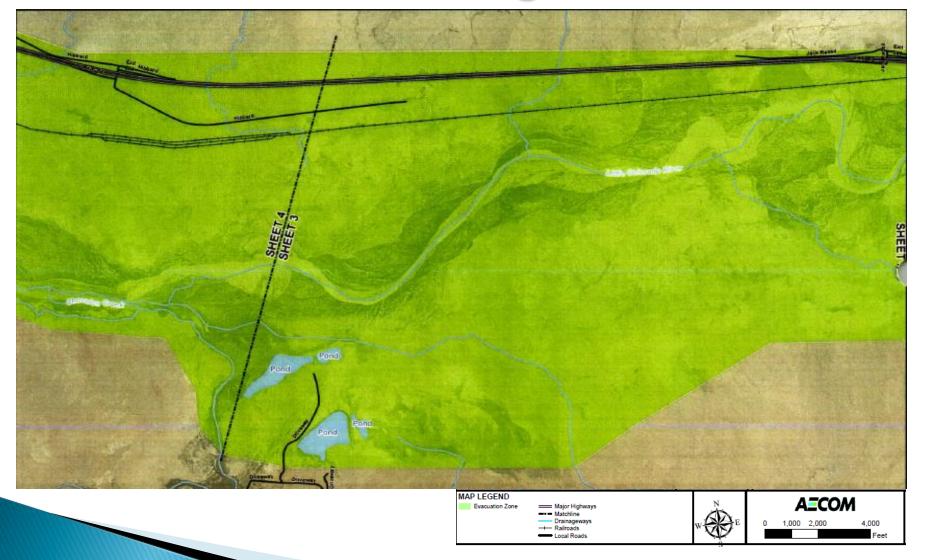
Evacuation Area (Page 2)



Local Roads Feet

Matchline
 Drainageways
 Railroads

# Evacuation Area (Page 3)

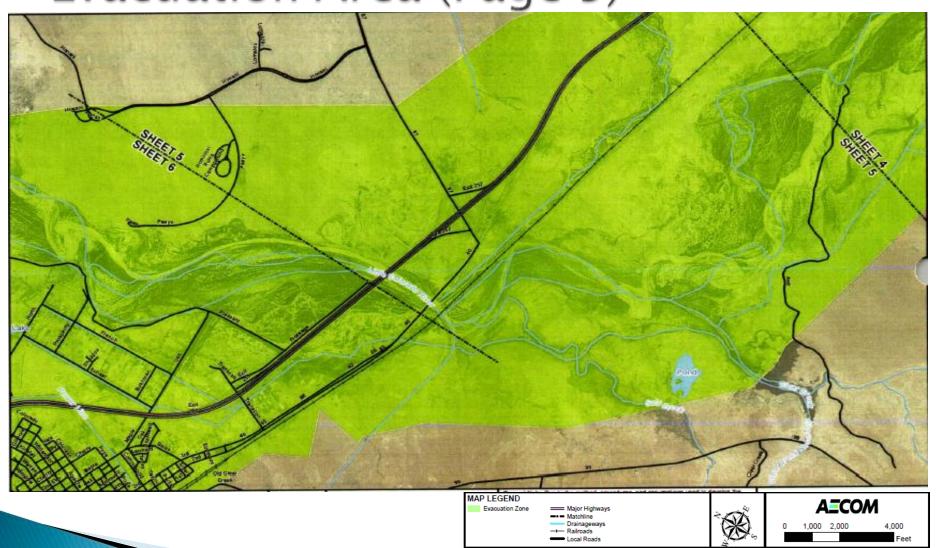


## Evacuation Area (Page 4)

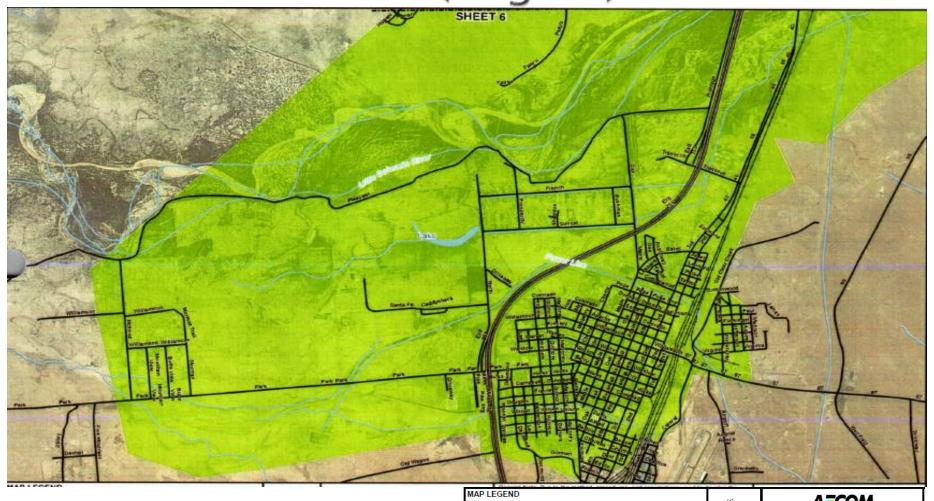


Matchline
 Drainageways
 Railroads
 Local Roads

Evacuation Area (Page 5)



Evacuation Area (Page 6)



#### Conclusion:

What is the trigger point to transition to the next level?

Who are you going to call?