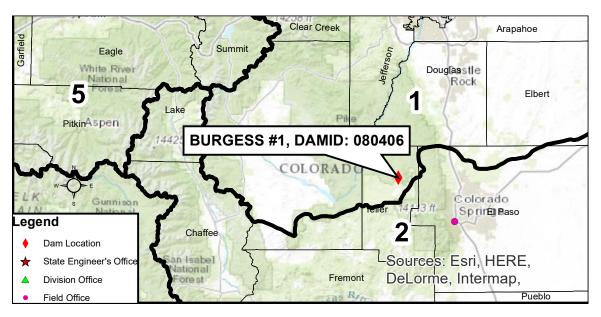
EMERGENCY ACTION PLAN (EAP) Notifications and Essential Information

BURGESS #1 DAM TELLER COUNTY, COLORADO HAZARD CLASSIFICATION: SIGNIFICANT State of Colorado DAMID: 080406

Location Map:



Vicinity Map:



EAP Date: 16 JUNE 2017

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ESSENTIAL DAM INFORMATION

Dam Owner

- Primary Contact: SHAUN GORDON •
- Organization: SPRING VALLEY PROPERTY OWNERS & REC. CORP. •
- Address: 570 RIDGE ROAD, DIVIDE, CO 80814 •
- Contact info: 719-439-5128 (cell) •

Location of Dam

- County: TELLER •
- Nearest Downstream Town: DECKERS •
- River/Drainage: RULE CREEK •
- Coordinates: 38.997219°N, -105.13722°W •
- Closest Physical Address: 1660 Spring Valley Dr, Divide, CO 80814 ٠

Description of the Dam

Dam Type & Dimensions

- Type of Dam: Earthen ٠ • 32 (feet)
- Dam Height:
- Crest Length: 332 (feet) •
- Crest Width: 15 (feet) •

Spillway Characteristics

- Drainage Basin Area: •
- **Reservoir Normal Capacity:** •
- Principal Spillway Type: •
- Emergency Spillway Type: •
- **Emergency Spillway Width:** •
- Spillway Freeboard: •
- Total Spillway Capacity: •
- Pass 100 year Flood?: •

Outlet Characteristics

- Size: •
- Maximum Capacity:

8160 (acres) 210 (acre-feet)

Overflow Pipe - CMP

- Unlined earthen channel
- 120 (feet)
- 5 (feet)
- 3660 (cfs)
- Υ

18" CMP upstream of principal spillway, 42" CMP downstream 29 (cfs)

EVENT LEVEL DETERMINATION & EXPECTED ACTIONS

Level Determination

An unusual event or potential emergency situation should be characterized as one of the following:

- High Flow Below Dam Non-Failure
- Unusual Condition at Dam Non-Failure
- Potential Dam Failure Immediate Action Required
- Evacuation Required Dam Failure in Progress or Unavoidable

This EAP will be activated upon detection of conditions events that are not within the realm of normal operations at the dam.

Expected Actions

The Expected Actions of each responsible party, for each event level are described below:

	High Flow Below Dam - Non-Failure
Dam Owner	Report conditions, monitor, report on reservoir and spillway stage and outlet releases and plan for adjustments to maintain integrity of the dam.
Dam Safety Engineer	Maintain communication with owner for current status and changes, interpret conditions above and below the dam that might impact future flows and dam safety; the value of a site visit to observe conditions first hand should be considered.
Regional Field Manager	Discuss conditions to obtain situational awareness, assess life-safety issues and potential infrastructure impacts, internal notifications within EM community
Local EM	Contact local floodplain managers to assess the flooding impacts based on the releases being made. (Reference Spillway and outlet works discharge rating information)
NWS	Provide forecasts for future impacts to conditions that aid the above entities in planning and preparedness, public notifications as necessary, issue a watch or a warning depending on the level of discharge and flow downstream.
Other	(fill in as necessary)

	Unusual Condition at Dam - Non-Failure
Dam Owner	Report conditions, monitor, assess need for resources to prevent escalation of
	incident, assess capabilities, engage their engineer.
Dam Safety	Assess reports of conditions; assist dam owner with direction/actions/assessments to
Engineer	prevent escalation of incident, coordinate with RFM's; the value of a site visit to
	observe conditions first hand should be considered.
Regional	Discuss conditions with DSE to obtain situational awareness, assess life-safety issues
Field	and potential infrastructure impacts, internal notifications within EM community.
Manager	
Local EM	Evaluate conditions relative to their area of authority and or responsibility; assess
	impacts and resource needs as necessary.
NWS	Provide forecasts, public notifications (watches and warnings) as necessary.
Other	(fill in as necessary)

	Potential Dam Failure - Immediate Action Required
Dam Owner	Report conditions, monitor, assess need for resources to prevent escalation of
	incident, assess capabilities, engage their engineer.
Dam Safety	Assess reports of conditions, site visit immediately if possible, assist dam owner
Engineer	with direction/actions/assessments to prevent escalation of incident, coordinate
	with RFM's, mobilize to EOC if one is activated.
Regional Field	Discuss conditions with DSE to obtain situational awareness, assess life-safety issues
Manager	and potential infrastructure impacts, internal notifications within EM community,
	consideration of and preparation for pre-evacuations, assess need for and facilitate
	with local disaster declarations.
Local EM	Evaluate conditions relative to their area of authority and or responsibility; assess
	impacts and resource needs as necessary, consideration of and preparation for pre-
	evacuations.
NWS	Provide forecasts, assist with public notifications, watches would be appropriate at
	this event level as actions are taken, prepare other public messaging as
	appropriate.
Other	(fill in as necessary)

	Evacuation Required - Dam Failure in Progress or Unavoidable
Dam Owner	Report reservoir conditions as breach occurs, provide timing and situational
	awareness of on-site conditions to emergency managers.
Dam Safety	Assess reports of conditions, site visit if possible, assist dam owner with
Engineer	direction/actions/assessments to prevent escalation of incident, coordinate with
	RFM's, mobilize to EOC.
Regional Field	Discuss conditions with DSE to obtain situational awareness, assess life-safety issues
Manager	and potential infrastructure impacts, internal notifications within EM community,
	assess need for and assist with disaster declarations.
Local EM	Evaluate conditions relative to their area of authority and/or responsibility;
	activate all available resources as necessary to affect evacuation of inundation
	zone.
NWS	Provide public notifications for flash flooding along inundated zone and call for
	immediate evacuation, a flash flood warning will be issued with appropriate other
	information.
Other	(fill in as necessary)

NOTIFICATIONS and COMMUNICATION

In order for all responsible parties to be able to prepare a response to a given emergency, notification to at least one individual from each of the agencies/entities shown in the table below should be made. Please keep the following in mind:

- These responsible parties should communicate within their appropriate chain of command.
- It is expected that Regional Field Managers (RFM) from CDHSEM will alert affected state infrastructure as necessary (i.e. Colorado Department of Transportation, Colorado State Patrol).
- It is expected that Local Emergency Managers will alert all pertinent emergency service contacts within their jurisdictions (i.e. Sheriff's Office, Fire Departments, etc.)

Emergency Notifications List -Contact to be made with an individual with each organization

Agency/Organizati on	Contact Name	Email Address	Cell Phone #	Alternate #
Dam Owner				
Primary	Shaun Gordon	shaun.gordon@state.co.us	(719) 439-5128	(719) 227-5257
Secondary	Andre Kilik	vmcdivide@gmail.com		719-687-1887
Local Emergency Ma	inager			
County EM	911 and/or	Local Emergency Manager (if 911	, instruct to contac	t local EM)
Teller County EM	Steve Steed	steeds@co.teller.co.us	(719) 687-9652	(719) 686-7990
<i>Teller Sheriff's</i> <i>Office</i>	Jason Mikesell	mikesellj@co.teller.co.us		(719) 687-9652
Douglas County EM	Tim Johnson	tmjohnso@dcsheriff.net	303-660-7500	303-660-7589
Div. Water Resource	es			
Primary - DSE	John Hunyadi	john.hunyadi@state.co.us	(719) 258-0859	(719) 227-5294
Secondary - Chief	Bill McCormick	bill.mccormick@state.co.us	(719) 338-6124	(719) 530-5536
Alternate - Water Commissioner	James Swank	james.swank@state.co.us	(303) 489-3003	
CO Dept. Homeland	Security & Emerger	ncy Management	1	
Primary – RFM	Mark Boley	mark.boley@state.co.us	720-415-4502	720-852-6600
Secondary –		24 hr		(303) 279-8855
Alternate - Plan Coordinator	Jody Horn	jody.horn@state.co.us	303-915-6519	(720) 852-6716
CDOT - Region 2	Chad Ray	Chad.Ray@state.co.us	(719) 240-1531	(719) 546-5407
<i>CO State Patrol - District 2</i>	Scott Copley	scott.copley@state.co.us	719-544-2424	719-288-2650
NWS Regional Office				
Hydrologist	Tony Anderson	tony.anderson@noaa.gov	(719) 948-9429	(800) 884-1540
Warning Meteorologist	Tom Magnuson	thomas.magnuson@noaa.gov	7199489429	(800) 884-1540

Event Communication

The Local Emergency Manager (LEM) or Regional Field Manager (RFM) from CDHSEM will coordinate text message groups and conference calls to facilitate situational awareness among all participants, as appropriate throughout the event.

LOCALLY AVAILABLE RESOURCES

The table below should be pre-populated by the dam owner, with consideration to how an emergency situation at the dam may be averted, mitigated, etc. (i.e. what resources would be needed to arrest a given situation and prevent failure of the dam)

- Location/availability of resources should be pre-planned.
- It is recommended that owner call resources before including in list to ensure contact names/resource availability.
- Consideration for an on-call type contract between owner/provider to expedite services should be given.

Locally Available Resources List - Contacts made by Dam Owner

Locally Available Resources Table						
Resource Type	Contact Name	Address	Primary #	Alternate #		
Heavy Equipment Contr	Heavy Equipment Contractor/Rental					
1. Spaccamonti Excavating	Roger Hafer	1805 Aspen Circle Pueblo, CO 81006	719-544-8943	719-250-3353		
2. Bills Tool Rental		125 Chestnut St. CS, CO 80905	719-634-4190			
Sand & Gravel Supply						
1. Ute Pass Sand and Gravel		20575 US Hwy 24 Woodland Park	719-687-3111			
2. Pioneer S&G		5000 Northpark Dr. CS, CO 80918	719-725-6550			
Ready Mix Concrete Su	oply					
1. Transit Mix		444 E. Costillia St. CS, CO 80903	719-475-0700			
2. Martin Marietta		3895 Wabash St. CS, CO 80906	719-638-8000			
Pumps						
1. Bills Tool Rental		125 Chestnut St. CS, CO 80905	719-634-4190			
2. Sunstate Equipment		1211 E. Cheyenne R CS, CO 80905	719-297-7265			
Diving Contractor	-					
1. Dive West Services	Kyle McCormack	5485 Bryant St. Denver, 80221	720-323-1066			
2. Marine Diving Solutions	lan Stephens		303.309.0091			
Sand Bags/Plastic Sheeting						
1. Pioneer S&G		5000 Northpark Dr. CS, CO 80918	719-725-6550			
2. C&C Sand & Stone		2635 Steel Dr. CS, CO 80907	719-577-9900			

EVACUATION INFORMATION

Critical Infrastructure List

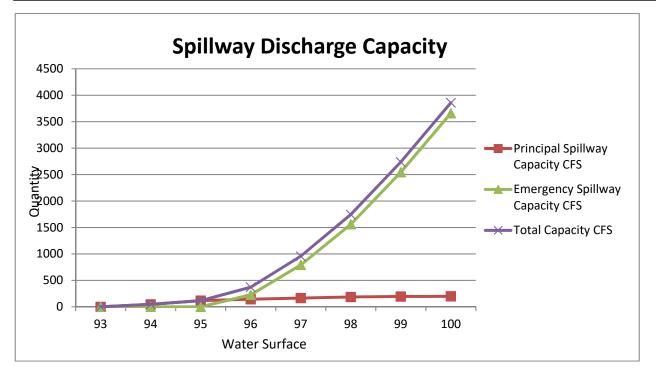
From examination and study of the inundation maps and consultation with local entities, a listing of critical infrastructure should be developed to aide an efficient emergency response. Structures described in the critical infrastructure list may include; population centers, roadways, schools, hospitals, police and fire stations, and utilities (water, sewer, gas, electric providers). Special attention should be paid to documenting means of contact/notification with inhabited structures with the shortest warning time.

This list should be developed in conjunction with your engineer, regional field manager and local emergency managers.

Critical Infrastructure List - Contacts to be made by Local EM's (Sheriff's office)				
Critical Inhabited	Distance From Dam	Flood Arrival Time		
Structures/Infrastructure	(miles)	(hrs)		
Ute Lake	1.3	25 min		
FR 339 - access to homes	6.0	1 hr 20 min		
Atwell Road Homes near Rule Creek	7.6 to 7.8	1 hr 50 min		
Hwy 67	8.0	1 hr 55 min		
Manitou Lake	8.4	2 hr 18 min		

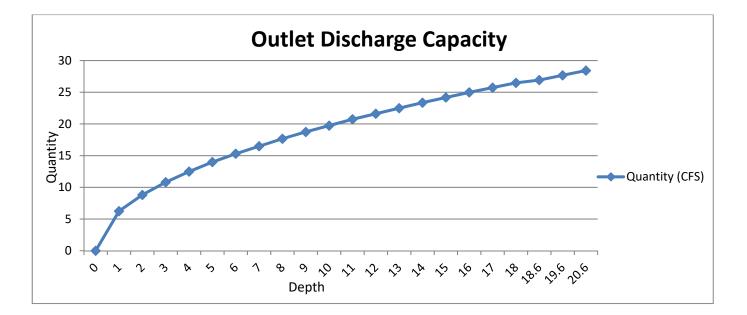
Spillway Discharge Rating Tables/Curves

USGS	Water	Principal	Emergency	Total
Elevation	Surface	Spillway	Spillway	Capacity
	Elevation	Capacity CFS	Capacity CFS	CFS
8848	93	0	0	0
8849	94	47.1	0	47.1
8850	95	116.9	0	116.9
8851	96	143.4	228	371.4
8852	97	165.8	792	957.8
8853	98	185.7	1560	1745.7
8854	99	195.3	2544	2739.3
8855	100	198.7	3660	3858.7

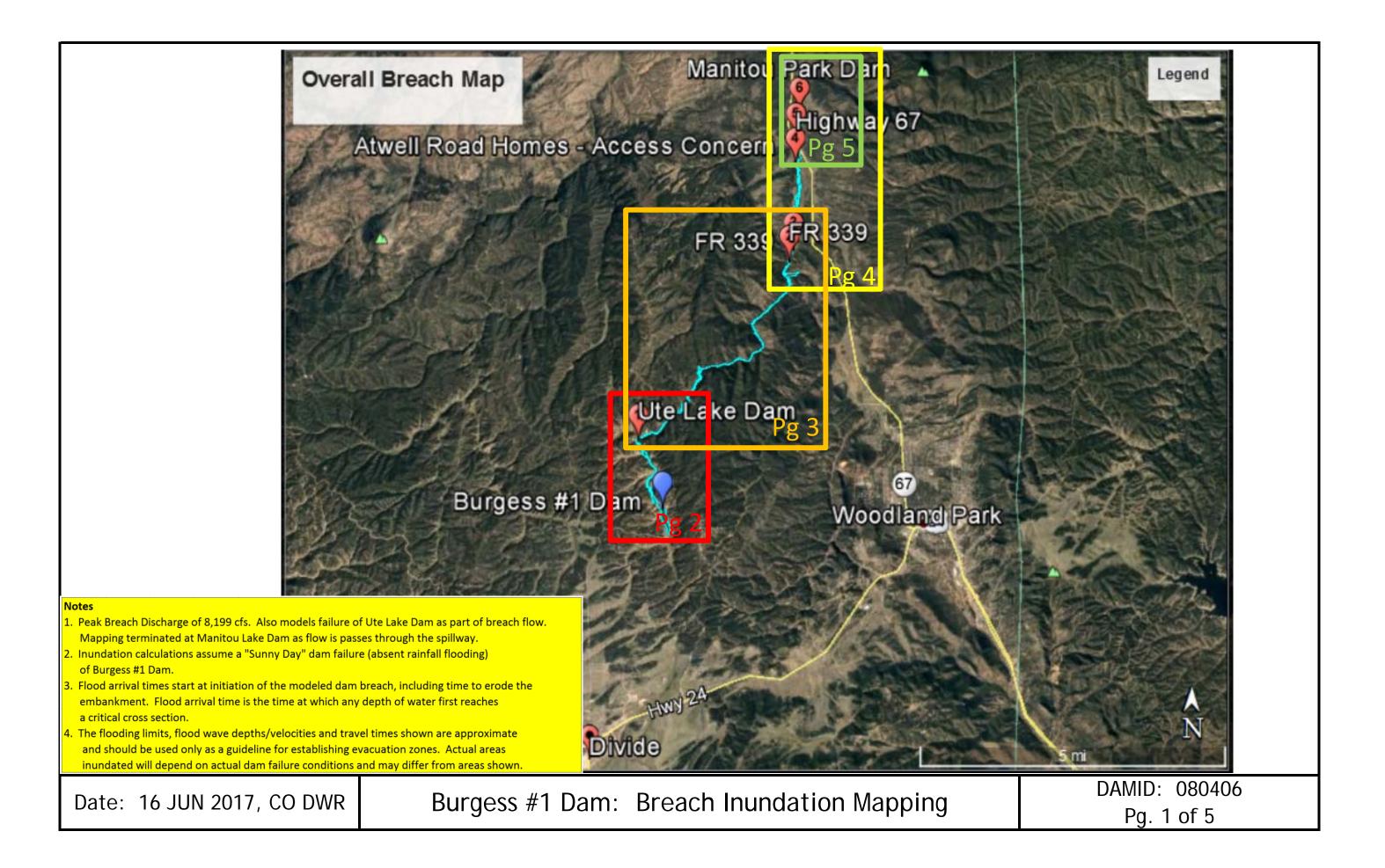


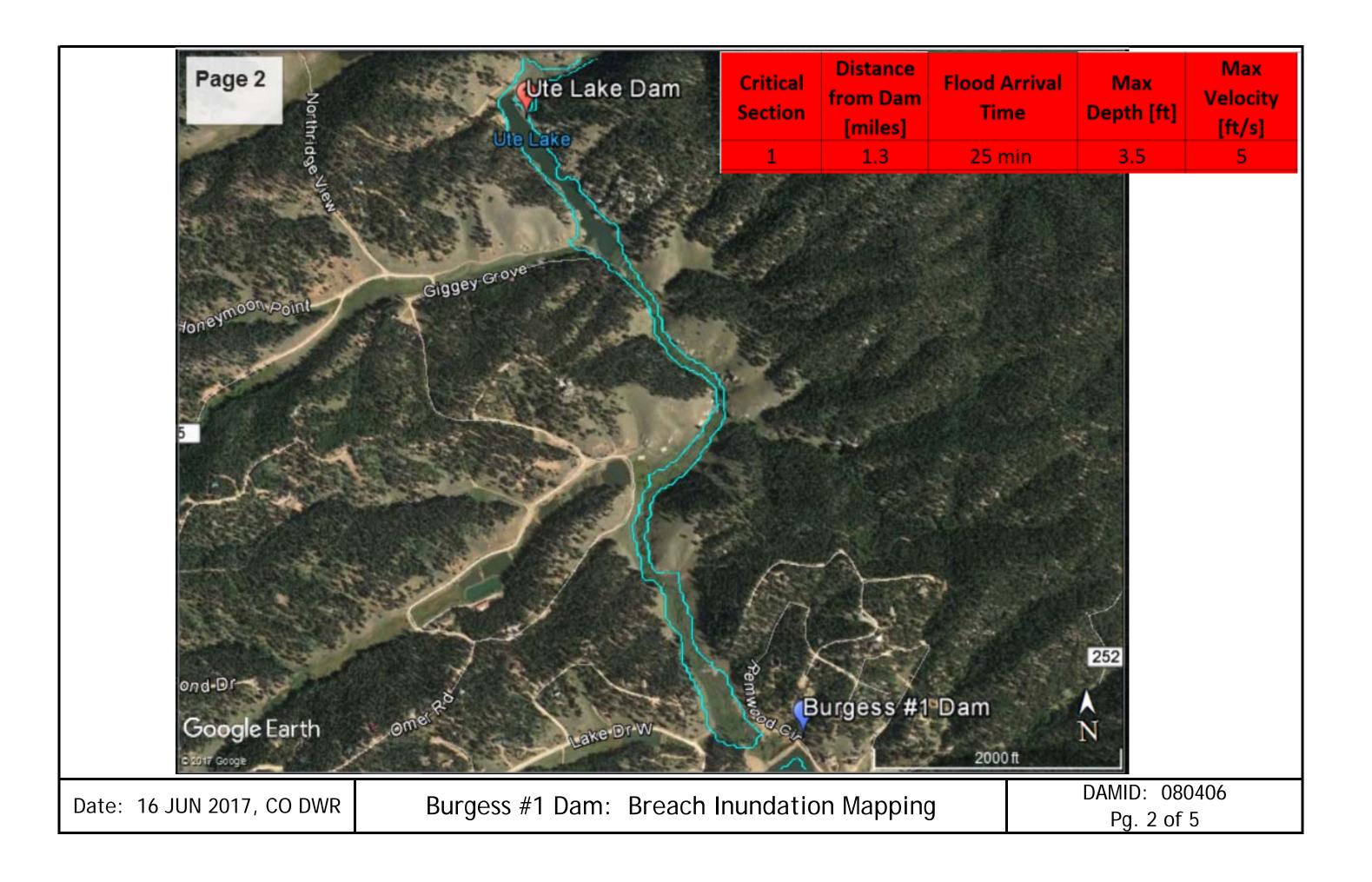
Outlet Works Discharge Rating Tables/Curves

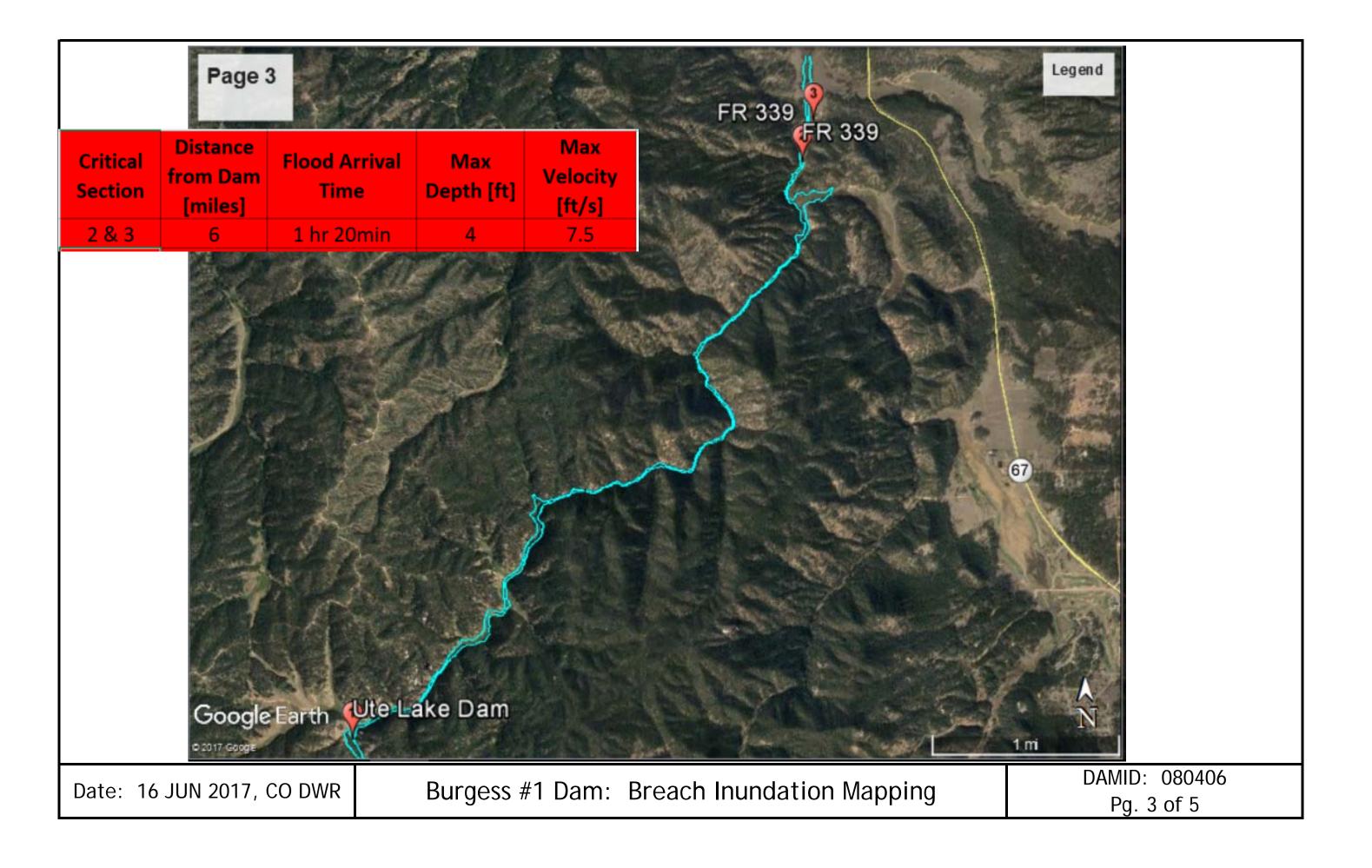
USGS Elevation	Water Surface Elevation	Height (ft)	Quantity (CFS)
8829.4	74.4	0	0
8830.4	75.4	1	6.25
8831.4	76.4	2	8.81
8832.4	77.4	3	10.81
8833.4	78.4	4	12.49
8834.4	79.4	5	13.99
8835.4	80.4	6	15.3
8836.4	81.4	7	16.49
8837.4	82.4	8	17.67
8838.4	83.4	9	18.74
8839.4	84.4	10	19.74
8840.4	85.4	11	20.74
8841.4	86.4	12	21.61
8842.4	87.4	13	22.49
8843.4	88.4	14	23.36
8844.4	89.4	15	24.17
8845.4	90.4	16	24.98
8846.4	91.4	17	25.73
8847.4	92.4	18	26.48
8848	93	18.6	26.92
8849	94	19.6	27.67
8850	95	20.6	28.42

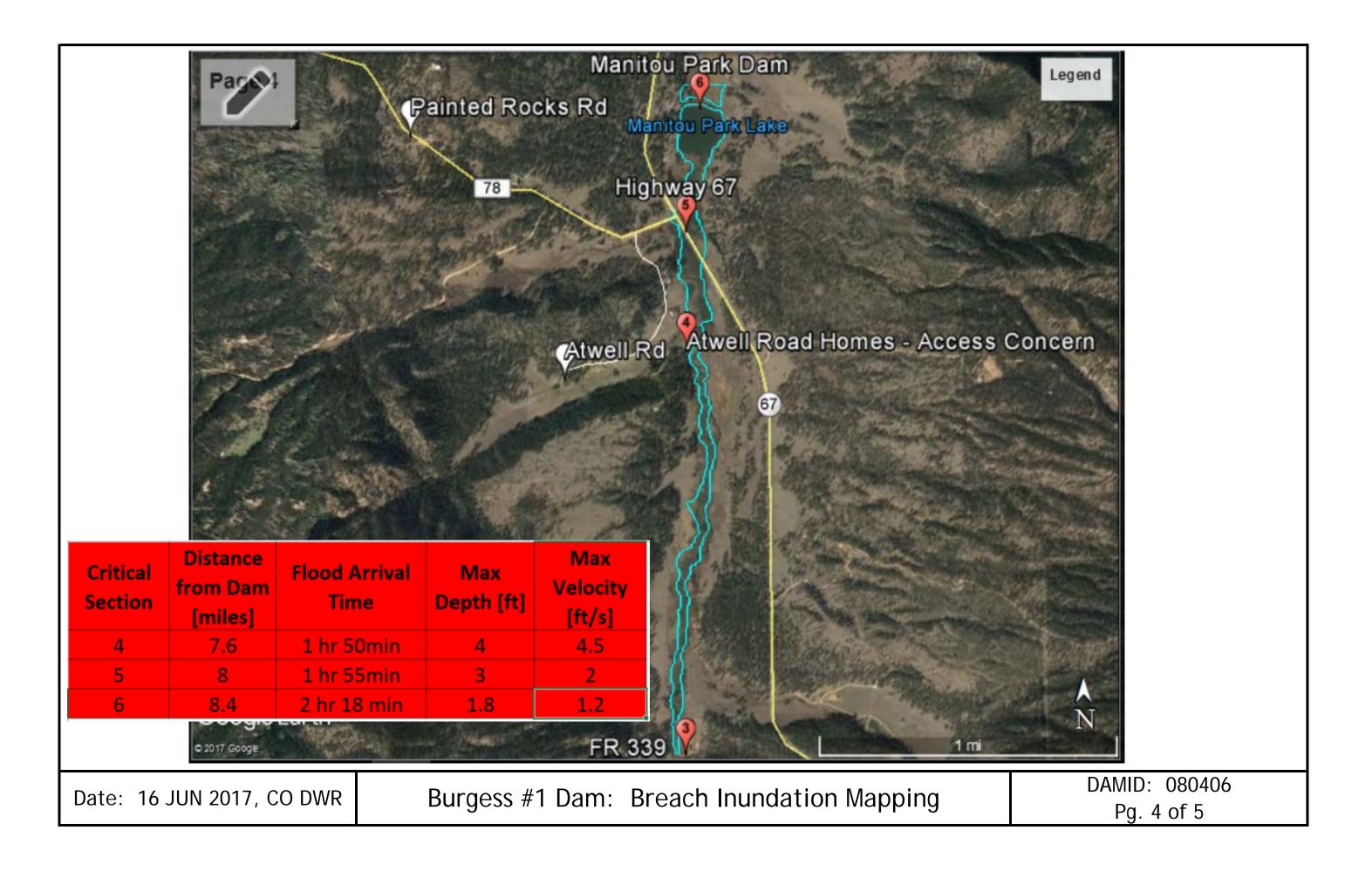


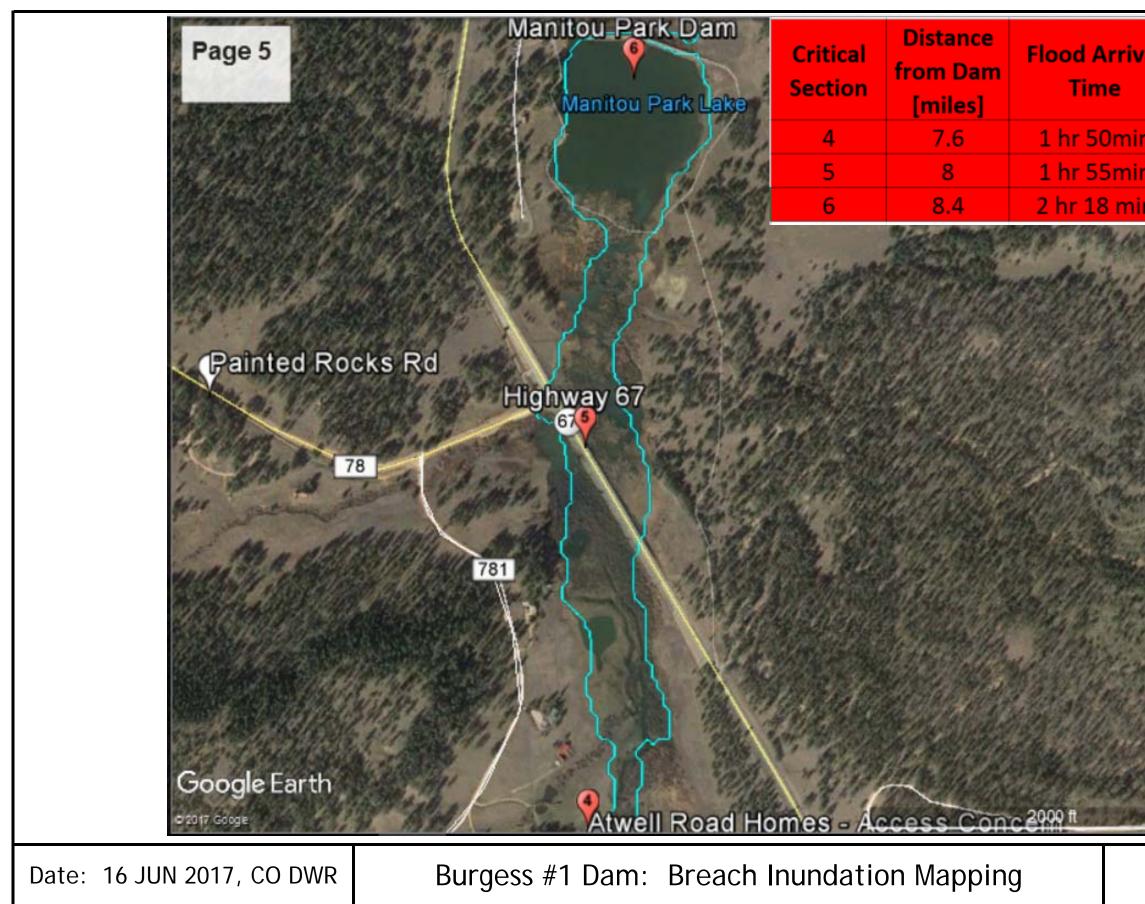
Inundation Maps











al	Max Depth [ft]	Max Velocity [ft/s]			
า	4	4.5			
า	3	2			
n	1.8	1.2			
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