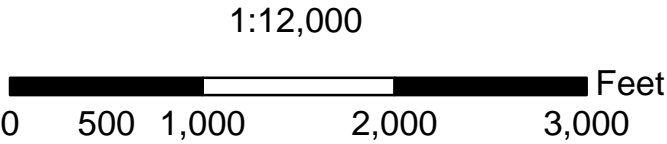


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	15180	0	955.3	947.3	0.4	12,122	182	12.9
8	14056	1,125	927.9	916.6	0.4	11,566	163	13.1
7	13489	1,692	913.3	903.0	0.4	11,411	142	14.0
6	12904	2,277	896.2	886.5	0.4	11,317	119	15.1
5	12511	2,669	885.8	875.5	0.4	11,192	523	3.9
4	12122	3,058	884.8	875.6	0.5	10,338	1,553	2.2
3	12039	3,141	884.7	876.0	0.5	9,616	1,572	1.9
2	10444	4,737	882.8	876.5	0.6	5,078	744	2.4
1	5887	9,293	877.5	875.1	1.2	2,094	1,436	0.8

* Travel time is measured from the initiation of breach formation to the time the breach wave arrives at the section.

The inundation area was developed based on a breach with the water surface at the Top of Dam elevation. Cross Sections were developed using 2-meter LIDAR data.



Attachment 1:
Inundation Area
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Date	Designed	Drawn	Checked	Approved
06/20/09	EWR	DMM	JW	AGB
6/30/2009				
06/20/09				
06/20/09				

DDG-011 NID-KS00581
DOUGLAS COUNTY, KANSAS



File Name	
Drawing Name	
6/30/2009	
Sheet 1 of 1	