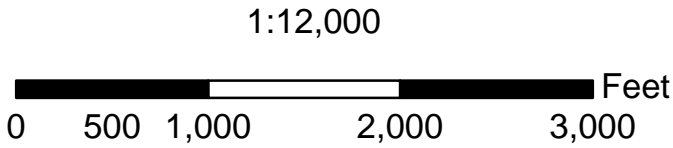


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG- 0282_1_2357	0	940.5	931.9	0.2	11,869	531	6.3
14	DDG- 0282_1_1395	962	925.5	914.4	0.2	9,927	198	8.3
13	DDG- 0282_1_860	1,497	914.1	904.6	0.2	9,803	228	9.1
12	DDG- 0282_1_415	1,942	905.1	897.0	0.2	9,609	201	12.8
11	Deer Creek_1_8391	2,357	896.9	886.4	0.2	6,640	411	6.0
11_TRIB	Deer Creek_2_10332	12,689	896.6	894.7	0.3	- 13	39	- 0.2
10	Deer Creek_1_8068	2,680	895.6	884.9	0.3	5,613	655	3.8
9	Deer Creek_1_6497	4,251	890.4	882.5	0.4	2,931	389	2.8
8	Deer Creek_1_4133	6,615	886.1	876.6	0.5	1,830	472	2.2
7	Deer Creek_1_3067	7,681	885.0	877.1	0.6	1,626	167	3.4
6	Deer Creek_1_2502	8,246	884.2	876.6	0.6	1,472	409	2.0
5	Deer Creek_1_1729	9,019	883.1	877.0	0.7	1,279	480	1.6
4	Deer Creek_1_1070	9,678	882.7	876.0	0.8	908	854	0.7
3	Wakarusa River_9_23899	10,748	881.9	876.7	1.0	819	270	1.8
3_TRIB	Wulf Dam 0111_1_70	10,818	881.9	876.9	1.0	10	5	0.8
2	Wakarusa River_9_23211	11,436	881.2	876.5	1.1	738	427	1.2
1	Wakarusa River_9_22090	12,556	880.4	876.5	1.3	660	437	1.1

\* 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
07/20/2009				
08/20/09				
09/20/09				

DDG-0282 NID-KS04090  
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/20/2009
Sheet 1 of 1