



* 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 Tp of Dam elevation. Cross Sections were developed using 2-meter LIDAR data.

Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Travel Time, Stream bed	hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
9	Washington Cr Tr_1_6011	14,564	845.1	833.7	1.5	2,287	156	3.2
8	Washington Cr Tr_1_1496	19,079	835.0	823.4	1.7	2,140	55	4.9
7	Washington Cr Tr_1_890	19,685	832.7	823.4	1.8	2,115	98	4.5
6	Wakarusa River_1_22847	20,575	831.6	822.4	1.9	1,894	68	4.9
6_TRIB	Washington Creek_1_8361	28,936	831.2	829.3	2.3	- 2	35	0.0
5	Wakarusa River_1_20931	22,490	830.2	820.1	2.0	1,832	70	4.0
4	Wakarusa River_1_17972	25,450	828.6	816.0	2.3	1,442	141	1.3
3	Wakarusa River_1_12849	30,573	826.1	814.2	2.4	1,331	54	2.9
2	Wakarusa River_1_10484	32,938	822.9	814.7	2.6	1,289	84	2.7
1	Wakarusa River_1_5056	38,365	814.9	806.9	2.7	1,145	74	2.5

Attachment 1:
Inundation Area
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE

Designed	EWR	Date	06/20/09
Drawn	DMM	Date	07/16/2009
Checked	JW	Date	06/20/09
Approved	AGB	Date	06/20/09

DDG-0313 NID-KS09035
DOUGLAS COUNTY, KANSAS



File Name
Drawing Name
07/16/2009
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