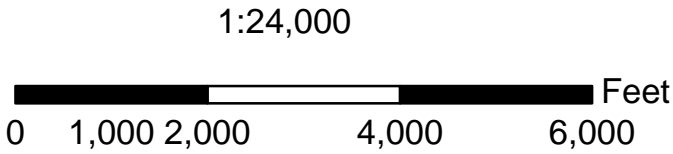


\* Travel time is measured from the initiation of breach formation to the time the breach wave arrives at the section.

The inundation area was developed based on a breach with the water surface at the higher of the auxiliary spillway elevation or 100-year, 6-hour storm event. Cross sections were developed using 2-meter LIDAR data.



Attachment 1:  
Inundation Area  
Boundary Map

REVISIONS		
DATE	APPROVED	TITLE



File Name
Drawing Name
07/14/2009
Sheet 2 of 2

Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Flow at Section @ Peak Elev	Travel Time, hrs	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec	Elevation of Stream bed
12	Washington Creek 1_17171	32,043	853.2	9,178	3.1	2,980	1.3	835.3
11	Washington Creek 1_13211	36,004	850.6	8,603	3.3	962	3.6	831.3
10	Washington Creek 1_10053	39,162	847.9	8,282	3.6	1,164	1.6	828.0
9	Washington Creek 1_8361	40,853	846.7	8,209	3.7	1,264	3.2	829.3
8	Washington Creek 1_7016	42,198	845.7	8,145	3.8	1,505	2.1	828.0
7	Washington Creek 1_5791	43,423	843.9	8,089	3.9	707	3.1	826.6
6	Wakarusa River 1_22847	49,214	839.6	7,605	4.3	224	5.4	822.4
6_TRIB	Washington Cr Tr 2_6011	55,225	839.6	9	4.2	63	0.0	833.7
5	Wakarusa River 1_20931	51,130	838.8	7,418	4.5	1,066	2.4	820.1
4	Wakarusa River 1_17972	54,089	837.5	7,142	4.7	985	1.9	816.0
3	Wakarusa River 1_12849	59,212	834.7	6,904	4.9	1,192	3.7	814.2
2	Wakarusa River 1_10484	61,577	831.5	6,789	5.2	353	3.1	814.7
1	Wakarusa River 1_5056	67,004	826.2	6,709	5.3	206	3.4	806.9

Designed	EWR	Date	06/20/09
Drawn	DMM	Date	07/14/2009
Checked	JW	Date	06/20/09
Approved	AGB	Date	06/20/09

DDG-0201 FRD26 NID-KS04099  
DOUGLAS COUNTY, KANSAS