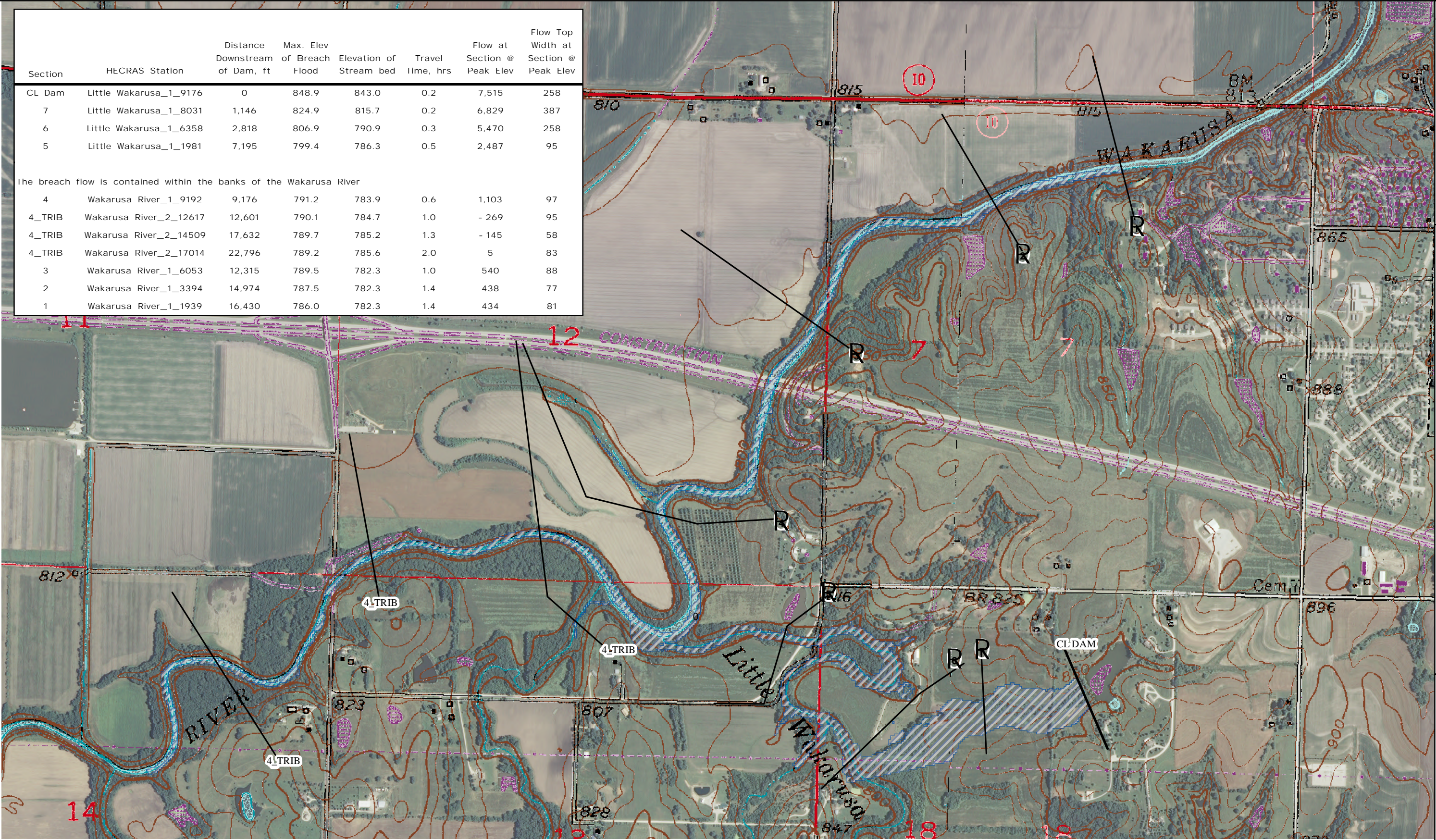
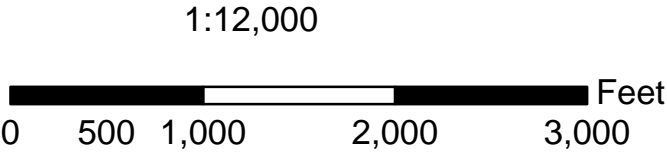


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev
CL Dam	Little Wakarusa_1_9176	0	848.9	843.0	0.2	7,515	258
7	Little Wakarusa_1_8031	1,146	824.9	815.7	0.2	6,829	387
6	Little Wakarusa_1_6358	2,818	806.9	790.9	0.3	5,470	258
5	Little Wakarusa_1_1981	7,195	799.4	786.3	0.5	2,487	95
The breach flow is contained within the banks of the Wakarusa River							
4	Wakarusa River_1_9192	9,176	791.2	783.9	0.6	1,103	97
4_TRIB	Wakarusa River_2_12617	12,601	790.1	784.7	1.0	- 269	95
4_TRIB	Wakarusa River_2_14509	17,632	789.7	785.2	1.3	- 145	58
4_TRIB	Wakarusa River_2_17014	22,796	789.2	785.6	2.0	5	83
3	Wakarusa River_1_6053	12,315	789.5	782.3	1.0	540	88
2	Wakarusa River_1_3394	14,974	787.5	782.3	1.4	438	77
1	Wakarusa River_1_1939	16,430	786.0	782.3	1.4	434	81



* 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	06/20/09
Designed	EWR
Drawn	DMM
Checked	JW
Approved	AGB

DDG-0234 NID-KS04088
DOUGLAS COUNTY, KANSAS



File Name	
Drawing Name	
07/06/2009	
Sheet 1 of 1	