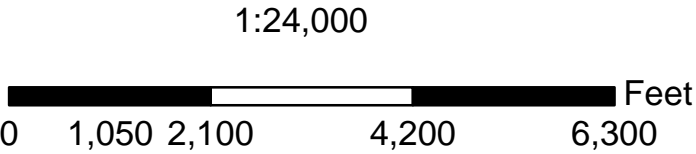


Section	HECRAS Station	Distance Downstream of Dam, ft	Max. Elev of Breach Flood	Elevation of Stream bed	Travel Time, hrs	Flow at Section @ Peak Elev	Flow Top Width at Section @ Peak Elev	Avg. Velocity at Section, ft/sec
CL Dam	DDG-0238_1_18611	0	1020.9	1014.1	0.1	11,459	226	11.5
38	DDG-0238_1_18584	27	1020.9	1008.4	0.1	8,621	252	5.2
37	DDG-0238_1_18540	71	1020.9	1006.8	0.1	9,314	307	4.2
36	DDG-0238_1_18503	108	1020.9	1005.8	0.1	9,306	450	3.3
35	DDG-0238_1_18478	133	1020.9	1005.3	0.1	9,971	724	2.5
34	DDG-0238_1_18445	166	1020.9	1004.4	0.1	9,943	817	1.8
33	DDG-0238_1_18384	226	1020.9	1003.6	0.1	9,911	797	1.7
32	DDG-0238_1_18326	285	1020.9	1002.6	0.1	9,869	744	1.6
31	DDG-0238_1_18291	320	1020.9	1002.0	0.1	9,818	1,027	1.3
30	DDG-0238_1_18254	357	1020.9	1001.6	0.1	9,748	1,223	0.8
29	DDG-0238_1_18222	389	1020.9	1002.2	0.1	9,672	1,175	0.8
28	DDG-0238_1_18190	421	1020.8	1013.3	0.1	9,602	894	2.5
27	DDG-0238_1_18158	453	1020.2	1016.2	0.1	9,556	570	6.2
26	DDG-0238_1_18128	482	1017.3	1014.9	0.1	9,533	427	14.9
25	DDG-0238_1_18102	509	1011.7	1007.8	0.1	9,517	272	19.5
24	DDG-0238_1_18054	557	1005.4	996.2	0.1	9,495	214	10.0
23	DDG-0238_1_17510	1,100	1001.7	991.6	0.2	8,335	441	3.1
22	DDG-0238_1_17444	1,167	1001.8	991.2	0.2	8,283	490	2.2
21	DDG-0238_1_17318	1,293	1001.6	991.8	0.2	8,100	383	3.1
20	DDG-0238_1_17208	1,403	1001.5	991.8	0.2	8,087	380	3.1
19	DDG-0238_1_17132	1,478	984.9	975.1	0.2	8,087	114	11.3
18	DDG-0238_1_16524	2,087	973.4	963.8	0.2	7,935	158	7.8
17	DDG-0238_1_16090	2,520	967.7	959.4	0.2	7,766	136	11.1
16	DDG-0238_1_15511	3,100	958.0	950.2	0.2	7,637	311	11.6
15	DDG-0238_1_15335	3,276	957.1	947.4	0.2	7,374	466	4.5
14	DDG-0238_1_12947	4,663	951.0	940.6	0.3	6,180	340	4.5
13	DDG-0238_1_12334	5,377	946.2	939.3	0.3	5,694	386	5.3
12	DDG-0238_1_12440	6,171	937.4	927.9	0.3	5,346	396	6.5
11	DDG-0238_1_12100	6,510	935.7	922.5	0.4	4,847	474	2.3
10	DDG-0238_1_12008	6,603	933.8	923.9	0.4	4,825	60	11.3
9	DDG-0238_1_11897	6,714	931.9	922.9	0.4	4,794	415	4.2
8	DDG-0238_1_9634	8,977	913.6	904.1	0.5	4,229	496	3.7
7	DDG-0238_1_7872	10,738	905.6	894.2	0.6	3,594	286	4.6
6	Coon Creek_1_6669	11,942	900.2	887.3	0.7	2,917	202	3.1
5	Coon Creek_1_5439	13,171	895.7	883.4	0.8	2,784	114	5.0
4	Coon Creek_1_2258	16,352	884.8	875.8	0.9	2,596	114	4.1
3	Wakarusa River_60_10458	18,611	879.5	875.1	1.1	1,966	843	1.3
2	Wakarusa River_60_8804	20,264	877.0	874.9	0.0	783	1,403	0.5
1	Wakarusa River_60_7890	21,179	876.7	874.9	2.4	771	1,759	0.6

* 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



DDG-0204 NID-KS07644
DOUGLAS COUNTY, KANSAS

Date	Designed	Drawn	Checked	Approved
06/2/009	EWR	DMM	JW	AGB
7/01/2009				
06/2/009				
06/2/009				

File Name
Drawing Name
07/01/2009
Sheet 1 of 1