APPENDIX F

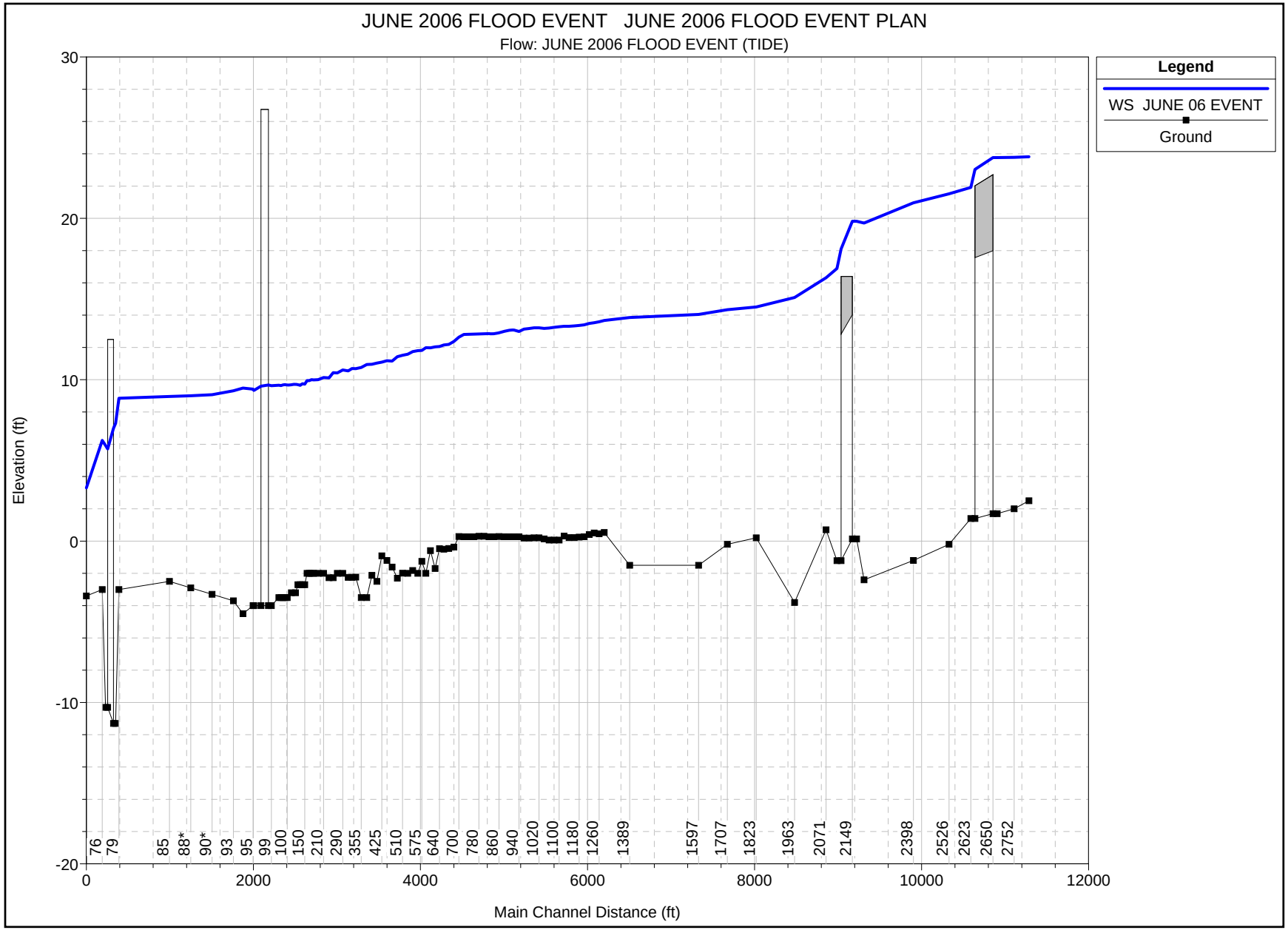
JUNE 2006 FLOOD EVENT HEC-RAS MODELING RESULTS

HEC-RAS Plan: 2006 River: Cameron Run Reach: One

Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
One	2806	17857.00	2.50	23.82	9.44	23.99	0.000184	3.43	6047.78	404.80	0.14
One	2752	17857.00	2.00	23.78	9.76	23.96	0.000188	3.49	5958.28	557.07	0.14
One	2677	17857.00	1.70	23.76	9.23	23.90	0.000151	3.08	7692.28	1320.84	0.13
One	2650	Bridge									
One	2623	17857.00	1.40	21.92	8.97	22.13	0.000259	3.69	5561.03	703.74	0.16
One	2526	17857.00	-0.20	21.52		21.97	0.000554	6.41	5917.68	630.74	0.25
One	2398	17857.00	-1.20	20.96		21.68	0.000879	7.79	4679.85	630.48	0.31
One	2211	19076.00	-2.40	19.71		20.97	0.001387	9.65	3376.42	451.01	0.38
One	2169	19076.00	0.14	19.82	10.91	20.55	0.001155	8.13	3829.25	601.40	0.33
One	2149	Bridge									
One	2129	19076.00	-1.21	16.89	9.94	17.86	0.001286	8.54	3106.75	381.98	0.37
One	2071	19076.00	0.70	16.32		17.57	0.001828	9.51	2821.79	255.41	0.43
One	1963	19076.00	-3.80	15.09		16.71	0.002744	11.13	2699.47	329.30	0.51
One	1823	19076.00	0.20	14.51		15.57	0.001704	8.71	3227.46	449.88	0.41
One	1707	19678.00	-0.20	14.34		15.05	0.000891	6.89	3472.23	541.23	0.38
One	1597	19678.00	-1.50	14.05		14.68	0.001122	7.55	5210.97	590.75	0.36
One	1389	19678.00	-1.50	13.85		14.12	0.000319	4.94	8828.11	1018.53	0.24
One	1280	19678.00	0.53	13.67		14.01	0.000397	5.35	6810.02	890.56	0.26
One	1260	19678.00	0.45	13.59		13.98	0.000439	5.66	6499.46	889.95	0.28
One	1240	19678.00	0.50	13.53		13.95	0.000474	5.83	6307.71	891.20	0.29
One	1220	19678.00	0.41	13.49		13.92	0.000486	5.93	6237.57	879.28	0.29
One	1200	19678.00	0.27	13.40		13.88	0.000553	6.25	5978.65	875.12	0.31
One	1180	19678.00	0.25	13.36		13.85	0.000545	6.27	6003.49	882.96	0.31
One	1160	19678.00	0.22	13.33		13.81	0.000613	6.19	5832.06	881.52	0.31
One	1140	19678.00	0.22	13.31		13.77	0.000594	6.09	6083.89	930.44	0.30
One	1120	19678.00	0.31	13.31		13.72	0.000546	5.84	6628.61	981.20	0.29
One	1100	19678.00	0.06	13.28		13.69	0.000539	5.78	6697.76	1033.39	0.28
One	1080	19678.00	0.06	13.24		13.66	0.000510	5.85	6722.68	1032.28	0.29
One	1060	19678.00	0.06	13.20		13.63	0.000506	5.94	6962.07	1090.24	0.30
One	1040	19678.00	0.14	13.18		13.59	0.000493	5.96	7167.87	1089.35	0.29
One	1020	19678.00	0.20	13.22		13.54	0.000410	5.42	8260.13	1098.69	0.27
One	1000	19678.00	0.20	13.22		13.50	0.000378	5.23	8579.85	1089.90	0.26
One	980	19678.00	0.19	13.17		13.48	0.000396	5.34	8231.93	1082.08	0.26
One	960	19678.00	0.19	13.13		13.45	0.000401	5.33	7906.84	1080.99	0.27
One	940	19678.00	0.27	12.99		13.42	0.000490	5.84	6403.58	948.06	0.29
One	920	19678.00	0.27	13.08		13.34	0.000425	4.86	8190.13	1065.61	0.24
One	900	19678.00	0.27	13.06		13.31	0.000390	4.72	8407.80	1082.65	0.23
One	880	19678.00	0.27	12.98		13.28	0.000374	5.17	8182.97	1093.64	0.26
One	860	19678.00	0.28	12.92		13.26	0.000401	5.31	7655.98	1091.45	0.27
One	840	19678.00	0.27	12.84		13.23	0.000435	5.44	6580.64	1067.18	0.28
One	820	19678.00	0.27	12.86		13.18	0.000391	5.15	7402.67	1075.66	0.26
One	800	19678.00	0.30	12.85		13.15	0.000374	5.07	7977.88	1070.27	0.26
One	780	19678.00	0.30	12.83		13.13	0.000372	5.06	7999.01	1089.06	0.25
One	760	19678.00	0.27	12.82		13.10	0.000349	4.86	8167.16	1088.36	0.25
One	740	19678.00	0.27	12.82		13.07	0.000321	4.68	8668.84	1138.28	0.24
One	720	19678.00	0.27	12.80		13.06	0.000319	4.67	8630.47	1136.67	0.24
One	700	19678.00	0.28	12.64		13.02	0.000442	5.45	6957.08	1223.69	0.28
One	680	19678.00	-0.37	12.37		12.97	0.000608	6.33	3402.31	334.00	0.32
One	660	19678.00	-0.46	12.19		12.91	0.000761	7.00	3120.83	319.81	0.36
One	659	19678.00	-0.50	12.15		12.87	0.000755	6.93	3369.85	657.86	0.36
One	640	19678.00	-0.47	12.06		12.82	0.000781	7.12	3078.49	369.25	0.36
One	625	19678.00	-1.70	12.03		12.77	0.000790	7.06	3130.35	388.85	0.35
One	610	19678.00	-0.59	11.98		12.73	0.000866	7.09	3094.03	344.83	0.36
One	595	19678.00	-2.00	11.98		12.66	0.000765	6.78	3200.04	312.14	0.34
One	575	19678.00	-1.26	11.81		12.61	0.001048	7.30	2960.41	323.60	0.37
One	555	19678.00	-2.00	11.80		12.54	0.001072	7.05	3022.53	303.77	0.36
One	540	19678.00	-1.82	11.74		12.47	0.001192	7.04	3024.02	302.68	0.35
One	530	19678.00	-2.00	11.58		12.37	0.001493	7.37	2844.64	277.64	0.37
One	510	19678.00	-1.99	11.51		12.27	0.001488	7.20	2887.88	283.82	0.37
One	485	19678.00	-2.30	11.43		12.17	0.001595	7.01	2858.88	272.68	0.37
One	465	19678.00	-1.61	11.16		12.06	0.001434	7.78	2650.44	257.59	0.41
One	445	19678.00	-1.20	11.18		11.93	0.001194	7.11	2850.69	271.15	0.37
One	425	19678.00	-0.91	11.09		11.86	0.001231	7.17	2811.20	264.25	0.38
One	395	19678.00	-2.50	11.03		11.78	0.001287	7.06	2845.18	257.35	0.36
One	385	19678.00	-2.12	10.96		11.70	0.001200	7.05	2879.75	281.15	0.37
One	375	19678.00	-3.50	10.94		11.61	0.001074	6.75	3020.68	268.63	0.34
One	355	19678.00	-3.50	10.76		11.52	0.001256	7.26	2870.23	257.44	0.37
One	337	19678.00	-2.23	10.69		11.43	0.001235	7.15	2907.32	300.14	0.37
One	325	19678.00	-2.25	10.69		11.36	0.001048	6.80	3100.32	312.64	0.35

HEC-RAS Plan: 2006 River: Cameron Run Reach: One (Continued)

Reach	River Sta	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)	(ft)	
One	310	19678.00	-2.25	10.55		11.30	0.001354	7.24	2934.34	299.82	0.37
One	290	19678.00	-2.00	10.60		11.15	0.001393	6.41	3536.27	434.56	0.33
One	270	19678.00	-2.00	10.42		11.04	0.001540	6.86	3368.39	410.11	0.36
One	255	19678.00	-2.27	10.43		10.95	0.001042	6.14	3812.26	452.67	0.32
One	240	19678.00	-2.27	10.12		10.86	0.001767	7.29	3446.04	414.48	0.39
One	210	19678.00	-2.00	10.13		10.74	0.000846	6.77	4378.01	506.17	0.35
One	180	19678.00	-2.00	10.00		10.67	0.001168	7.14	4050.55	462.36	0.37
One	170	19678.00	-2.00	9.99		10.60	0.000911	6.78	4235.86	487.28	0.35
One	165	19678.00	-2.00	10.00		10.56	0.000671	6.55	4455.81	512.73	0.34
One	160	19678.00	-2.00	9.94		10.54	0.000962	6.74	4307.85	499.10	0.35
One	155	19678.00	-2.00	9.94		10.51	0.000682	6.58	4427.94	511.06	0.34
One	150	19678.00	-2.70	9.73		10.47	0.000879	7.37	3940.25	525.74	0.39
One	145	19678.00	-2.70	9.75		10.42	0.000812	7.09	4150.82	568.01	0.37
One	135	19678.00	-2.70	9.65		10.39	0.000894	7.42	4131.94	527.80	0.39
One	130	19678.00	-2.70	9.69		10.34	0.000812	7.09	4334.75	557.06	0.37
One	120	19678.00	-3.20	9.71		10.30	0.000720	6.86	4704.39	634.98	0.35
One	110	19678.00	-3.20	9.68		10.26	0.000717	6.83	4779.58	657.40	0.35
One	100	19678.00	-3.50	9.68		10.21	0.000743	6.61	5052.98	677.19	0.34
One	99.8	19678.00	-3.50	9.70		10.18	0.000587	6.30	5361.06	715.69	0.32
One	99.7	19678.00	-3.50	9.68		10.16	0.000952	6.43	5147.31	685.41	0.33
One	99.6	19678.00	-3.50	9.63		10.14	0.000610	6.40	5374.83	709.27	0.33
One	99.5	19678.00	-3.50	9.66		10.10	0.000772	6.17	5602.44	753.77	0.31
One	99	21237.00	-4.00	9.63	5.84	10.02	0.000725	5.56	6121.06	1165.97	0.34
One	96	Bridge									
One	95.5	21237.00	-4.00	9.34		9.77	0.000831	5.82	5796.23	1067.22	0.36
One	95	21237.00	-4.00	9.42		9.73	0.000564	5.55	8720.57	1300.63	0.30
One	94*	21237.00	-4.50	9.49		9.63	0.000316	3.93	11585.43	1586.71	0.21
One	93	21237.00	-3.70	9.31		9.57	0.000551	5.42	9152.44	1416.62	0.28
One	90*	21237.00	-3.30	9.07		9.40	0.000807	5.26	6542.23	1061.06	0.28
One	88*	21237.00	-2.90	9.00		9.24	0.000370	4.06	6415.96	920.37	0.23
One	85	21237.00	-2.50	8.96		9.14	0.000262	3.45	6634.22	827.44	0.20
One	79	21237.00	-3.00	8.85		8.96	0.000267	3.83	16013.40	4506.96	0.21
One	78	21237.00	-11.30	7.29	0.93	8.59	0.001140	9.24	3317.68	2322.00	0.43
One	77.5	Bridge									
One	77	21237.00	-10.30	5.93	1.87	7.61	0.001930	10.40	2042.64	184.22	0.55
One	76	21237.00	-3.00	6.24	6.24	7.09	0.003475	8.00	4962.16	4203.55	0.66
One	75	21237.00	-3.40	3.30	3.30	4.56	0.005723	9.22	2885.92	1825.76	0.83


JUNE 2006 FLOOD EVENT JUNE 2006 FLOOD EVENT PLAN
Flow: JUNE 2006 FLOOD EVENT (TIDE)
Legend
WS JUNE 06 EVENT
Ground
Elevation (ft)
Main Channel Distance (ft)
30
20
10
0
-10
-20
0
2000
4000
6000
8000
10000
12000
76
79
85
88*
90*
93
95
99
100
150
210
290
355
425
510
575
640
700
780
860
940
1020
1100
1180
1260
1389
1597
1707
1823
1963
2071
2149
2398
2526
2623
2650
2752