

**Appendix A – Detailed HEC-RAS Results**

River	Reach	River Sta	Profile	Q Total (m3/s)	W.S. Elev (m)	Crit W.S. (m)	Hydr Depth (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Shear Chan (N/m2)	Power Chan (N/m s)	Flow Area (m2)	Top Width (m)	Froude # Chl	
CreditRiver	1	11.090	Burnhamthorpe Ro	Bridge											
CreditRiver	1		11.074	Regional	732.6	113.38	112.89	1.57	0.003834	3.41	100.45	342.18	391.01	248.4	0.66
CreditRiver	1		11.074	100 year	510.8	112.98	112.61	1.26	0.00423	3.21	94.3	302.95	294.54	234.37	0.68
CreditRiver	1		11.074	50 year	428.2	112.81	112.49	1.15	0.004394	3.11	90.57	281.44	255.34	222.36	0.68
CreditRiver	1		11.074	25 year	353	112.63	112.38	1.04	0.004614	3.01	87.25	262.36	217.81	210.21	0.69
CreditRiver	1		11.074	10 year	264	112.4	112.22	0.88	0.005005	2.88	83.27	239.44	170.85	193.94	0.7
CreditRiver	1		11.074	5 year	202	112.21	112.1	0.75	0.005502	2.79	81.32	226.57	135.31	180.66	0.72
CreditRiver	1		11.074	2 year	90	111.8	111.72	0.5	0.005728	2.31	61.95	143.01	69.37	137.49	0.7
CreditRiver	1		10.738	Regional	732.6	111.04	111.04	1.63	0.009109	5.15	231.79	1193.52	236.55	145.5	1.02
CreditRiver	1		10.738	100 year	510.8	110.72	110.72	1.34	0.008358	4.52	186.53	842.96	190.49	142.18	0.95
CreditRiver	1		10.738	50 year	428.2	110.58	110.58	1.21	0.008023	4.25	168.27	714.87	171	140.8	0.93
CreditRiver	1		10.738	25 year	353	110.45	110.45	1.09	0.007552	3.95	148.68	587.51	152.53	139.48	0.89
CreditRiver	1		10.738	10 year	264	110.27	110.27	0.93	0.006874	3.55	123.46	437.81	128.04	137.72	0.83
CreditRiver	1		10.738	5 year	202	110.13	110.13	0.8	0.00623	3.2	103.36	330.93	108.78	136.31	0.78
CreditRiver	1		10.738	2 year	90	109.66	109.64	0.53	0.006468	2.63	77.59	203.94	51.69	96.66	0.76
CreditRiver	1	10.493	Mullet Creek btw	Regional	732.6	108.79	108.26	1.8	0.004339	3	85.74	257.45	328.76	182.15	0.68
CreditRiver	1	10.493	Mullet Creek btw	100 year	510.8	108.34	107.98	1.36	0.005398	2.82	82.59	233.22	246.11	181.17	0.72
CreditRiver	1	10.493	Mullet Creek btw	50 year	428.2	108.16	107.87	1.18	0.005951	2.74	80.74	220.95	214.12	180.79	0.74
CreditRiver	1	10.493	Mullet Creek btw	25 year	353	107.99	107.77	1.02	0.006551	2.64	78.3	206.58	184.34	180.37	0.76
CreditRiver	1	10.493	Mullet Creek btw	10 year	264	107.79	107.63	0.83	0.007409	2.48	73.62	182.66	147.52	178	0.79
CreditRiver	1	10.493	Mullet Creek btw	5 year	202	107.63	107.52	0.68	0.008449	2.36	70.78	167.36	119.35	176.16	0.82
CreditRiver	1	10.493	Mullet Creek btw	2 year	90	107.3	107.3	0.36	0.0121	2.06	62.83	129.24	62.74	172.41	0.9
CreditRiver	1		10.237	Regional	732.6	107.81		2.36	0.003288	3.99	122.59	489.24	286.51	121.3	0.65
CreditRiver	1		10.237	100 year	510.8	107.31		1.89	0.003127	3.55	101.4	359.57	226.16	119.46	0.62
CreditRiver	1		10.237	50 year	428.2	107.1		1.69	0.003063	3.36	92.89	311.8	200.34	118.67	0.61
CreditRiver	1		10.237	25 year	353	106.88		1.48	0.002988	3.16	84.39	266.79	174.78	117.88	0.59
CreditRiver	1		10.237	10 year	264	106.59		1.2	0.002891	2.9	73.45	212.82	140.37	116.81	0.57
CreditRiver	1		10.237	5 year	202	106.34		1.06	0.002711	2.63	62.51	164.44	112.94	106.33	0.54
CreditRiver	1		10.237	2 year	90	105.66		0.9	0.00228	1.93	37.49	72.18	55.45	61.9	0.47
CreditRiver	1		9.964	Regional	732.6	106.28	106.28	1.72	0.005958	4.71	144.72	681.64	226.26	131.33	0.96
CreditRiver	1		9.964	100 year	510.8	105.93	105.93	1.38	0.005651	4.14	117.49	485.9	179.66	129.85	0.91
CreditRiver	1		9.964	50 year	428.2	105.78	105.78	1.24	0.00547	3.88	105.73	409.76	160.36	129.23	0.88
CreditRiver	1		9.964	25 year	353	105.63	105.63	1.1	0.0053	3.62	94.61	342.26	140.91	128.6	0.86
CreditRiver	1		9.964	10 year	264	105.43	105.43	0.9	0.005034	3.26	79.94	260.69	115.14	127.77	0.82

CreditRiver	1	9.964 5 year	202	105.26	105.26	0.74	0.004854	2.98	69.11	205.81	93.82	127.08	0.79
CreditRiver	1	9.964 2 year	90	104.79	104.61	0.76	0.004353	2.17	41.83	90.76	47.21	61.82	0.7
CreditRiver	1	9.584 Regional	732.6	104.34	104.06	1.94	0.004493	4.16	111.77	464.48	262.24	135.16	0.83
CreditRiver	1	9.584 100 year	510.8	103.81	103.72	1.43	0.005793	4.04	114.01	460.22	191.09	133.49	0.91
CreditRiver	1	9.584 50 year	428.2	103.6	103.58	1.23	0.006474	3.97	114.45	454.71	163.9	132.85	0.94
CreditRiver	1	9.584 25 year	353	103.44	103.45	1.07	0.00679	3.81	108.86	414.93	141.62	132.32	0.95
CreditRiver	1	9.584 10 year	264	103.23	103.27	0.87	0.006936	3.53	97.46	343.86	114.96	131.68	0.94
CreditRiver	1	9.584 5 year	202	103.08	103.13	0.72	0.006949	3.27	87.13	285.21	94.68	131.2	0.92
CreditRiver	1	9.584 2 year	90	102.66	102.66	0.51	0.007476	2.61	63.13	164.7	46.58	92.03	0.9
CreditRiver	1	9.354 Regional	732.6	104.01		2.87	0.000769	2.41	31.69	76.3	517.25	179.97	0.37
CreditRiver	1	9.354 100 year	510.8	103.34		2.33	0.000788	2.17	27.3	59.27	398.92	170.87	0.37
CreditRiver	1	9.354 50 year	428.2	103.06		2.11	0.00079	2.06	25.21	51.86	352.22	167.1	0.36
CreditRiver	1	9.354 25 year	353	102.74	101.49	1.84	0.000846	1.99	24.36	48.43	299.5	162.75	0.37
CreditRiver	1	9.354 10 year	264	102.36	101.2	1.53	0.000872	1.84	21.89	40.32	239.2	156.32	0.37
CreditRiver	1	9.354 5 year	202	102.05	100.98	1.28	0.00091	1.73	20.07	34.63	191.52	149.15	0.37
CreditRiver	1	9.354 2 year	90	101.18	100.57	1.03	0.001267	1.47	17.13	25.18	88.3	85.69	0.4
CreditRiver	1	9.074 Regional	732.6	103.49		2.73	0.001468	3.53	66.09	233.12	361	132.02	0.53
CreditRiver	1	9.074 100 year	510.8	102.83		2.19	0.001521	3.24	58.59	189.6	275.57	126.06	0.52
CreditRiver	1	9.074 50 year	428.2	102.56		1.96	0.001514	3.08	54.39	167.64	242.63	123.68	0.51
CreditRiver	1	9.074 25 year	353	102.17		1.62	0.001844	3.15	59.13	186.45	194.6	120.13	0.56
CreditRiver	1	9.074 10 year	264	101.66		1.16	0.002525	3.3	68.35	225.28	134.55	115.54	0.63
CreditRiver	1	9.074 5 year	202	101.25	100.95	1.04	0.003178	3.33	73.38	244.04	91.32	88.2	0.69
CreditRiver	1	9.074 2 year	90	100.36	100.13	0.96	0.004136	2.75	59.06	162.64	39.39	40.91	0.73
CreditRiver	1	8.776 Regional	732.6	102.14	102.14	1.92	0.00339	5.16	144.26	744.84	218.77	114.14	0.79
CreditRiver	1	8.776 100 year	510.8	101.46	101.46	1.47	0.003621	4.77	130.05	619.81	146.27	99.52	0.8
CreditRiver	1	8.776 50 year	428.2	100.75	100.75	2.41	0.005918	5.28	171.36	904.38	92.85	38.53	0.98
CreditRiver	1	8.776 25 year	353	100.4	100.4	2.19	0.006278	4.99	160.01	798.88	79.59	36.4	0.99
CreditRiver	1	8.776 10 year	264	100.03	99.96	1.94	0.006002	4.4	130.91	576.06	66.37	34.15	0.94
CreditRiver	1	8.776 5 year	202	99.78	99.63	1.74	0.005296	3.82	102.61	391.93	57.99	33.33	0.87
CreditRiver	1	8.776 2 year	90	99.15	98.89	1.2	0.003928	2.55	52.02	132.78	37.72	31.45	0.7
CreditRiver	1	8.513 Regional	732.6	99.5	99.86	2.33	0.00925	6.11	238.47	1456.27	130.1	55.74	1.2
CreditRiver	1	8.513 100 year	510.8	98.91	99.24	1.85	0.010683	5.55	214.12	1188.06	98.25	53.11	1.24
CreditRiver	1	8.513 50 year	428.2	98.79	98.98	1.74	0.009371	4.98	176.04	876.21	91.48	52.53	1.15
CreditRiver	1	8.513 25 year	353	98.68	98.73	1.65	0.007703	4.35	136.89	595.25	86.06	52.07	1.03
CreditRiver	1	8.513 10 year	264	98.42	98.42	1.42	0.007392	3.83	112.16	429.99	72.43	50.88	0.98
CreditRiver	1	8.513 5 year	202	98.17	98.17	1.2	0.007847	3.52	100	351.61	59.96	49.76	0.98

