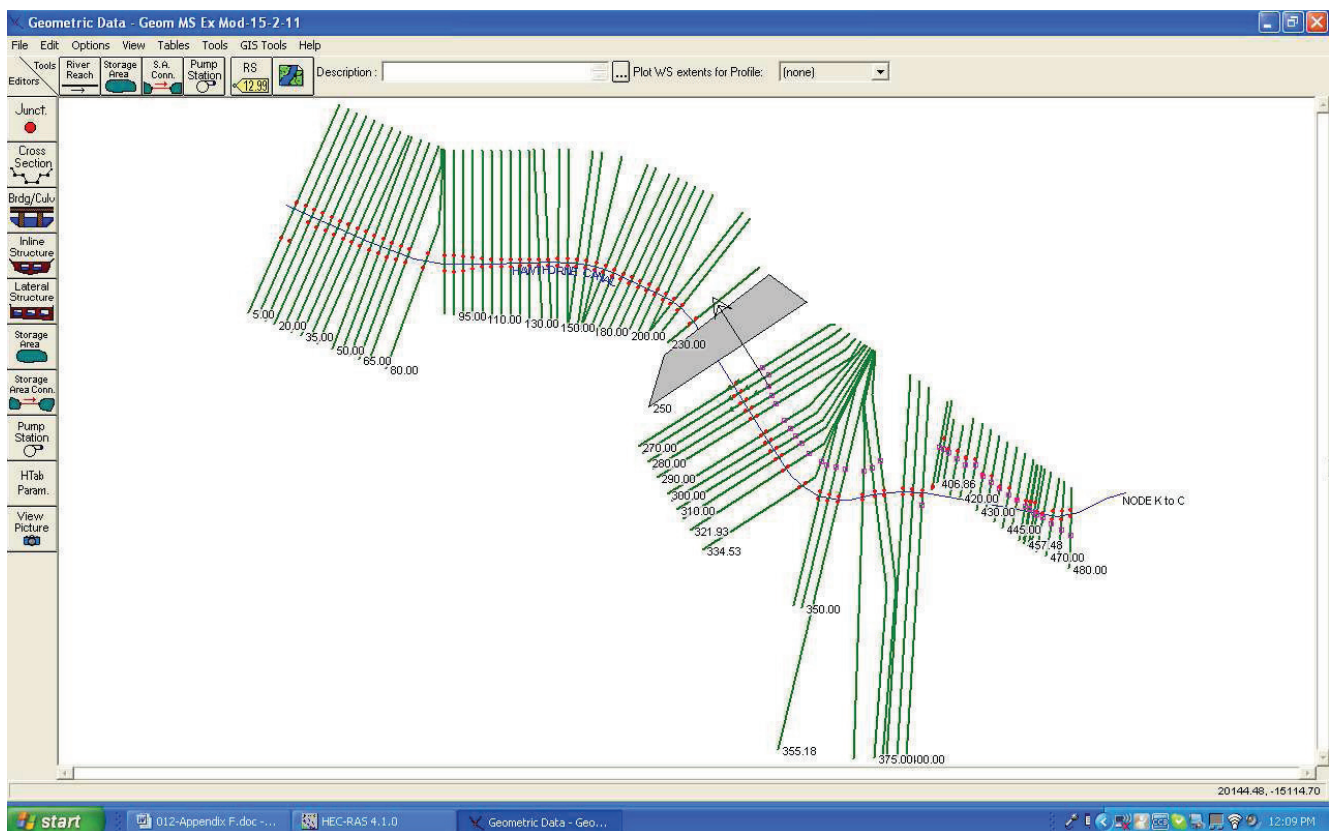

APPENDIX F - HEC RAS RESULTS

Existing (Civil Certification)



Steady Flow Data - MS ex Flow 15-2-11

File Options Help

Enter/Edit Number of Profiles (25000 max): 5 Reach Boundary Conditions ... Apply Data

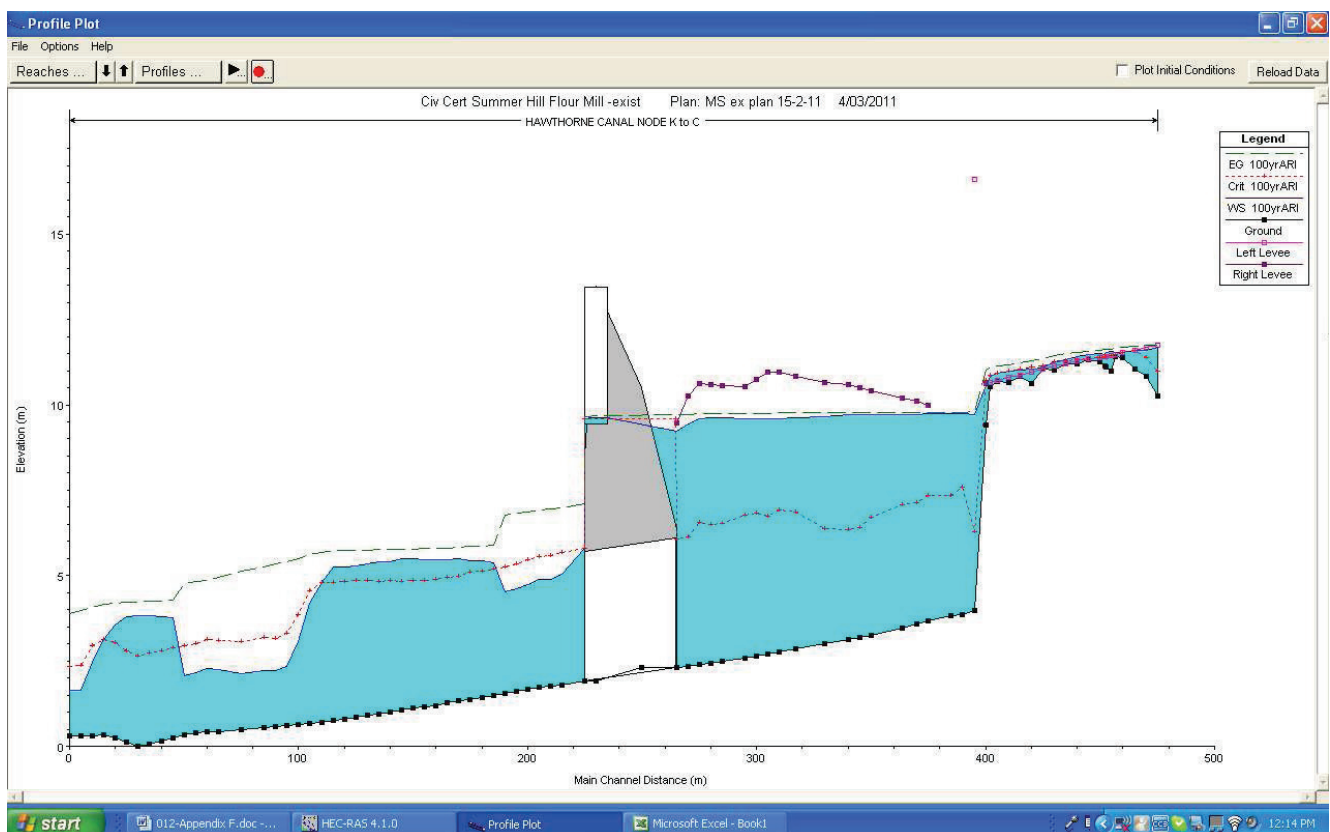
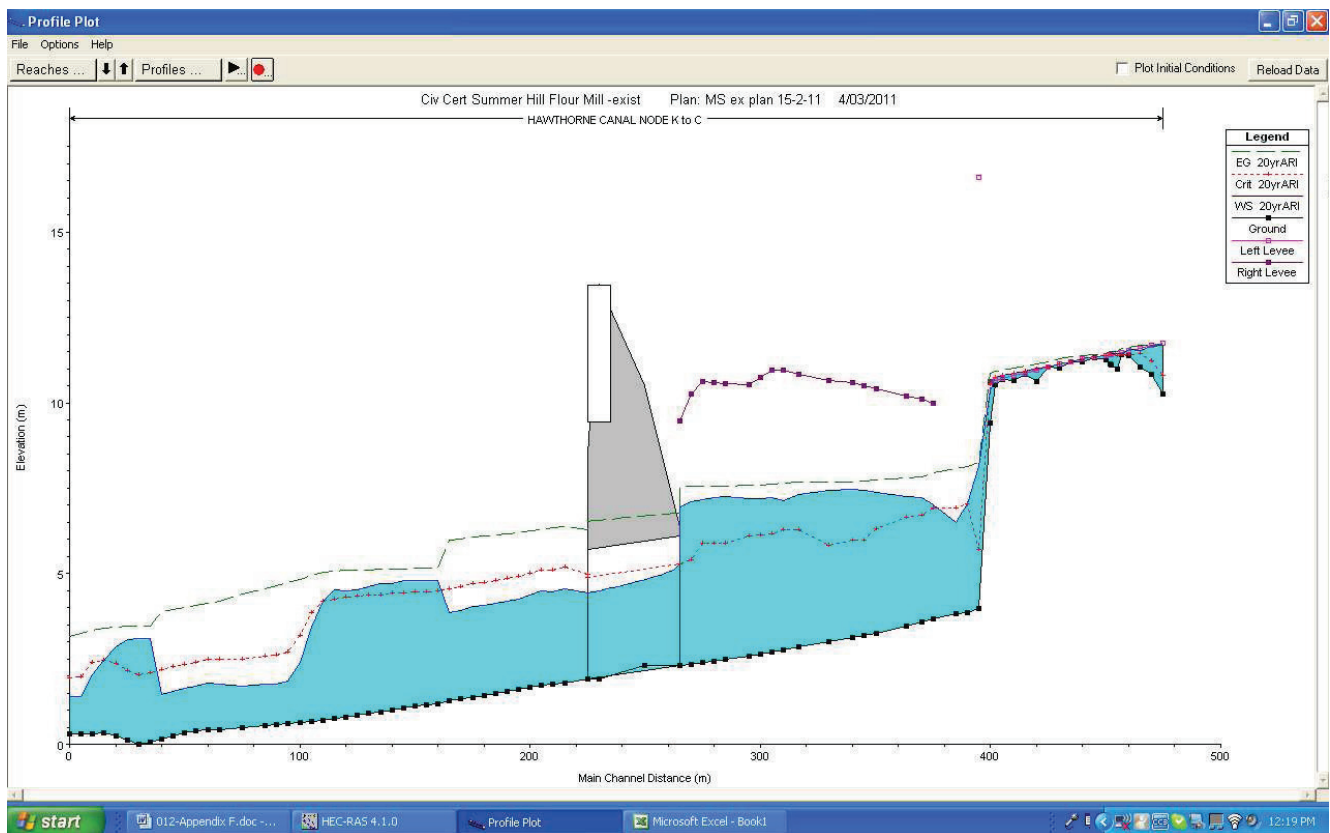
Locations of Flow Data Changes

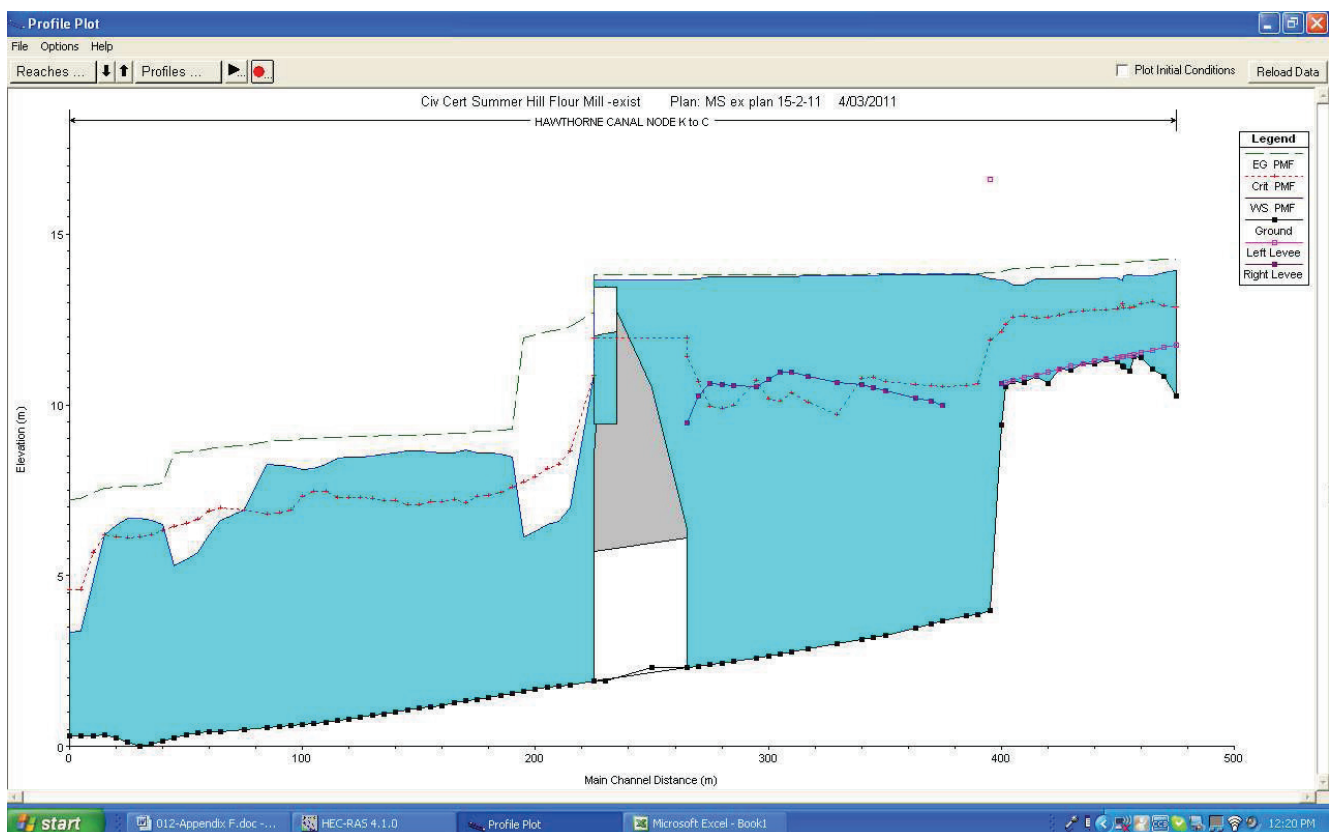
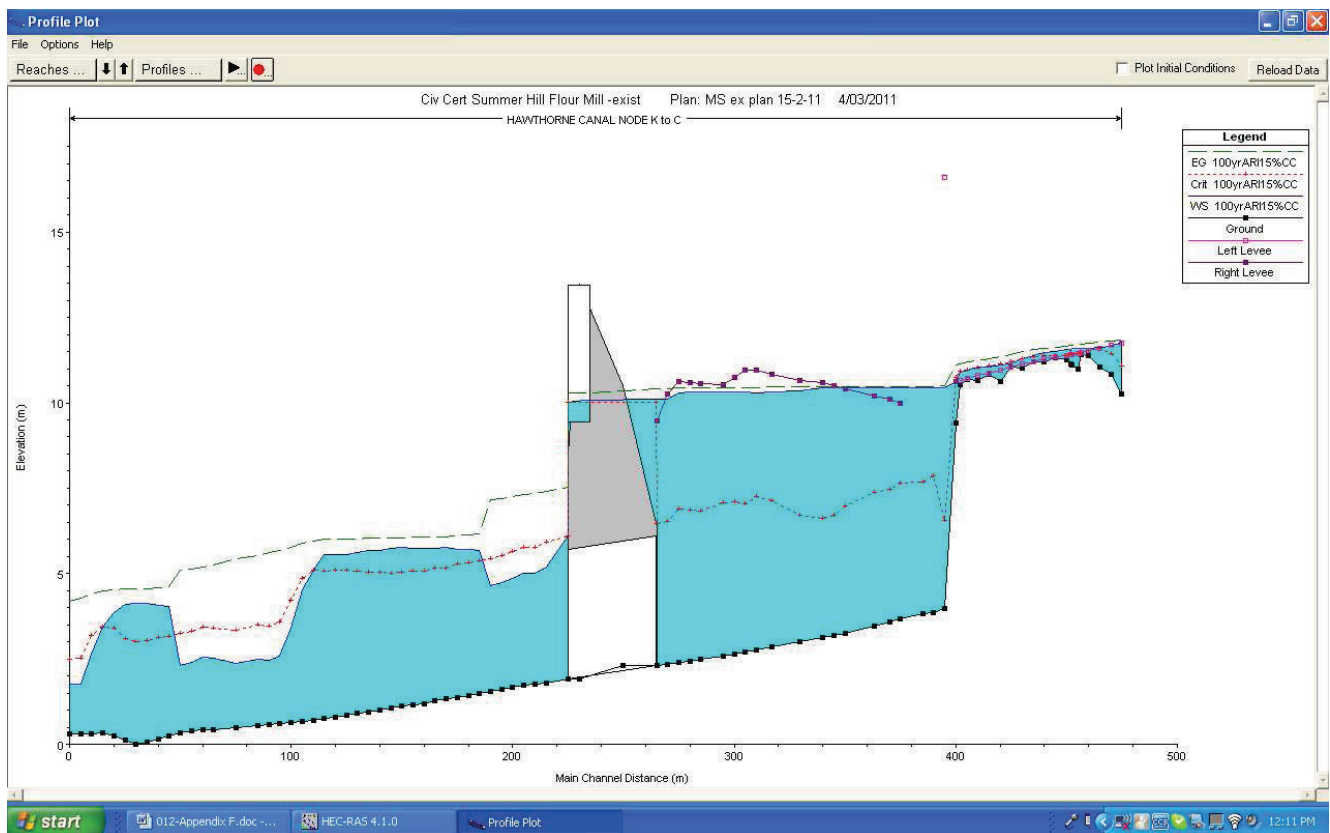
River: HAWTHORNE CANAL Add Multiple...

Reach: NODE K to C River Sta.: 480.00 Add A Flow Change Location

Flow Change Location		Profile Names and Flow Rates						
River	Reach	RS	20yARI	100yARI	100yARI10%CC	100yARI15%CC	100yARI30%CC	PMF
1	HAWTHORNE CA	NODE K to C	480.00	18	27.9	31	32.6	32.6
2	HAWTHORNE CA	NODE K to C	395.00	41.3	51.8	57.5	60.5	63.2
3	HAWTHORNE CA	NODE K to C	334.53	61.6	86.5	96	101.1	115.5
4	HAWTHORNE CA	NODE K to C	230.00	65.6	95.4	105.9	111.4	127.4
5	HAWTHORNE CA	NODE K to C	25.00	63.8	103	114.3	120.3	137.5

Edit Steady flow data for the profiles (m3/s)





River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
480	20yrARI	18	10.25	11.68	10.82	0.72	25.01	24.21	0.21
480	100yrARI	27.9	10.25	11.69	10.99	1.1	25.43	24.51	0.31
480	100yrARI10%CC	31	10.25	11.73	11.05	1.19	26.34	25.12	0.33
480	100yrARI15%CC	32.6	10.25	11.78	11.08	1.04	35.35	42.64	0.29
480	100yrARI30%CC	37.2	10.25	11.81	11.16	1.15	36.48	42.64	0.31
480	PMF	326	10.25	13.93	12.86	2.86	126.89	42.65	0.49
475	20yrARI	18	10.83	11.65	11.22	0.79	18.54	24.76	0.32
475	100yrARI	27.9	10.83	11.61	11.37	1.27	17.59	24.12	0.53
475	100yrARI10%CC	31	10.83	11.63	11.41	1.38	18.14	24.49	0.57
475	100yrARI15%CC	32.6	10.83	11.65	11.44	1.44	18.46	24.7	0.58
475	100yrARI30%CC	37.2	10.83	11.77	11.49	1.16	30	42.71	0.43
475	PMF	326	10.83	13.89	12.92	2.85	120.27	42.72	0.54
470	20yrARI	18	11.06	11.54	11.44	1.19	11.2	23.48	0.67
470	100yrARI	27.9	11.06	11.59	11.59	1.26	18.02	41.33	0.66
470	100yrARI10%CC	31	11.06	11.62	11.59	1.34	19.12	41.33	0.69
470	100yrARI15%CC	32.6	11.06	11.63	11.59	1.38	19.82	41.33	0.69
470	100yrARI30%CC	37.2	11.06	11.68	11.59	1.48	21.74	41.33	0.7
470	PMF	326	11.06	13.78	13.01	3.11	108.6	41.34	0.62
465	20yrARI	18	11.37	11.58	11.42	0.5	19.34	42.06	0.36
465	100yrARI	27.9	11.37	11.55	11.52	0.77	17.98	42.06	0.6
465	100yrARI10%CC	31	11.37	11.58	11.52	0.87	19.45	42.06	0.61
465	100yrARI15%CC	32.6	11.37	11.6	11.52	0.91	20.19	42.06	0.61
465	100yrARI30%CC	37.2	11.37	11.65	11.56	1.02	22.22	42.06	0.63
465	PMF	326	11.37	13.79	12.96	2.71	112.15	42.07	0.56
461.79	20yrARI	18	11.42	11.4	11.4		9.18	23.41	0
461.79	100yrARI	27.9	11.42	11.55	11.47	0.53	20.55	42.31	0.47
461.79	100yrARI10%CC	31	11.42	11.59	11.47	0.62	22.05	42.31	0.49
461.79	100yrARI15%CC	32.6	11.42	11.6	11.47	0.67	22.8	42.31	0.5
461.79	100yrARI30%CC	37.2	11.42	11.65	11.49	0.78	24.87	42.31	0.52
461.79	PMF	326	11.42	13.8	12.89	2.6	115.61	42.34	0.54
460	20yrARI	18	11	11.46	11.39	0.93	18.3	42.82	0.44
460	100yrARI	27.9	11	11.55	11.45	1.21	22.39	42.82	0.52
460	100yrARI10%CC	31	11	11.59	11.45	1.27	23.92	42.82	0.53
460	100yrARI15%CC	32.6	11	11.61	11.45	1.3	24.69	42.82	0.53
460	100yrARI30%CC	37.2	11	11.65	11.45	1.37	26.79	42.83	0.54
460	PMF	326	11	13.81	12.84	2.76	119.01	42.86	0.53
457.48	20yrARI	18	11.12	11.45	11.41	0.67	18.83	41.86	0.38
457.48	100yrARI	27.9	11.12	11.54	11.42	0.93	22.72	41.86	0.46
457.48	100yrARI10%CC	31	11.12	11.58	11.42	0.99	24.21	41.86	0.47
457.48	100yrARI15%CC	32.6	11.12	11.6	11.42	1.02	24.96	41.86	0.48
457.48	100yrARI30%CC	37.2	11.12	11.65	11.44	1.1	27	41.86	0.49
457.48	PMF	326	11.12	13.78	12.84	2.65	116.46	41.88	0.52

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
457.11	20yrARI	18	11.15	11.42	11.42	0.81	14.95	38.67	0.51
457.11	100yrARI	27.9	11.15	11.48	11.42	1.16	17.32	38.68	0.66
457.11	100yrARI10%CC	31	11.15	11.51	11.44	1.24	18.53	38.69	0.67
457.11	100yrARI15%CC	32.6	11.15	11.53	11.45	1.28	19.14	38.69	0.68
457.11	100yrARI30%CC	37.2	11.15	11.57	11.49	1.38	20.77	38.7	0.69
457.11	PMF	326	11.15	13.64	12.97	3.08	101.15	39.05	0.63
455	20yrARI	18	11.27	11.39	11.39	0.42	16.97	43.01	0.39
455	100yrARI	27.9	11.27	11.5	11.39	0.7	21.75	43.01	0.47
455	100yrARI10%CC	31	11.27	11.53	11.39	0.77	23.2	43.01	0.48
455	100yrARI15%CC	32.6	11.27	11.55	11.39	0.81	23.93	43.01	0.49
455	100yrARI30%CC	37.2	11.27	11.6	11.43	0.9	25.89	43.01	0.5
455	PMF	326	11.27	13.73	12.8	2.59	117.57	43.04	0.53
450	20yrARI	18	11.32	11.35	11.34	0.16	15.5	43.09	0.33
450	100yrARI	27.9	11.32	11.47	11.35	0.55	20.6	43.09	0.47
450	100yrARI10%CC	31	11.32	11.5	11.37	0.64	22.02	43.09	0.49
450	100yrARI15%CC	32.6	11.32	11.52	11.39	0.68	22.74	43.09	0.5
450	100yrARI30%CC	37.2	11.32	11.56	11.42	0.79	24.66	43.09	0.52
450	PMF	326	11.32	13.72	12.79	2.56	117.53	43.12	0.53
445	20yrARI	18	11.19	11.3	11.29	0.52	13.9	43.18	0.5
445	100yrARI	27.9	11.19	11.42	11.34	0.85	18.99	43.18	0.57
445	100yrARI10%CC	31	11.19	11.45	11.36	0.93	20.4	43.18	0.58
445	100yrARI15%CC	32.6	11.19	11.47	11.37	0.97	21.1	43.18	0.59
445	100yrARI30%CC	37.2	11.19	11.51	11.41	1.07	22.99	43.18	0.61
445	PMF	326	11.19	13.7	12.78	2.64	117.57	43.21	0.53
440	20yrARI	18	11.2	11.21	11.21	0.15	11.28	38.91	0.44
440	100yrARI	27.9	11.2	11.34	11.3	0.74	16.37	41.29	0.63
440	100yrARI10%CC	31	11.2	11.37	11.33	0.84	17.83	41.85	0.65
440	100yrARI15%CC	32.6	11.2	11.39	11.35	0.89	18.52	42.08	0.65
440	100yrARI30%CC	37.2	11.2	11.43	11.38	1.02	20.54	43.21	0.67
440	PMF	326	11.2	13.69	12.76	2.61	118.1	43.22	0.53
435	20yrARI	18	11.02	11.15	11.15	0.69	10.91	36.98	0.65
435	100yrARI	27.9	11.02	11.25	11.25	1.09	14.75	38.53	0.75
435	100yrARI10%CC	31	11.02	11.28	11.28	1.18	15.84	39.1	0.77
435	100yrARI15%CC	32.6	11.02	11.29	11.29	1.23	16.44	39.43	0.77
435	100yrARI30%CC	37.2	11.02	11.33	11.33	1.35	18.04	40.29	0.79
435	PMF	326	11.02	13.69	12.72	2.58	119.81	43.27	0.51
430	20yrARI	18	11.04	11.05	11.05	0.11	11	36.7	0.41
430	100yrARI	27.9	11.04	11.08	11.15	0.47	12.3	37.44	0.73
430	100yrARI10%CC	31	11.04	11.11	11.17	0.66	13.35	38.04	0.8
430	100yrARI15%CC	32.6	11.04	11.13	11.19	0.75	13.9	38.35	0.82
430	100yrARI30%CC	37.2	11.04	11.17	11.23	0.95	15.38	39.16	0.87
430	PMF	326	11.04	13.7	12.62	2.51	124.42	43.2	0.49

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
425	20yrARI	18	10.64	11.01	10.98	1.33	11.83	38.19	0.69
425	100yrARI	27.9	10.64	11.06	11.09	1.87	13.61	39.25	0.92
425	100yrARI10%CC	31	10.64	11.09	11.13	1.95	14.88	40.54	0.93
425	100yrARI15%CC	32.6	10.64	11.1	11.14	1.99	15.5	41.17	0.93
425	100yrARI30%CC	37.2	10.64	11.22	11.18	1.81	20.52	42.9	0.76
425	PMF	326	10.64	13.69	12.56	2.66	126.63	42.91	0.49
420	20yrARI	18	10.84	10.94	10.94	0.54	11.06	35.79	0.59
420	100yrARI	27.9	10.84	11.02	11.05	0.95	14.37	41.75	0.74
420	100yrARI10%CC	31	10.84	11.05	11.08	1.06	15.52	41.75	0.76
420	100yrARI15%CC	32.6	10.84	11.06	11.09	1.11	16.15	41.75	0.77
420	100yrARI30%CC	37.2	10.84	11.19	11.13	1.16	21.53	41.75	0.63
420	PMF	326	10.84	13.68	12.52	2.45	125.25	41.76	0.46
415	20yrARI	18	10.64	10.86	10.86	1.05	10.68	32.98	0.73
415	100yrARI	27.9	10.64	11	10.98	1.39	15.62	35.73	0.74
415	100yrARI10%CC	31	10.64	11.04	11.01	1.46	17	35.73	0.74
415	100yrARI15%CC	32.6	10.64	11.06	11.02	1.5	17.62	35.73	0.75
415	100yrARI30%CC	37.2	10.64	11.15	11.06	1.51	21.08	35.73	0.68
415	PMF	326	10.64	13.52	12.61	3.02	106.3	37.24	0.57
410	20yrARI	18	10.69	10.79	10.8	0.65	10.34	31.78	0.64
410	100yrARI	27.9	10.69	10.92	10.92	1.09	14.7	35.66	0.72
410	100yrARI10%CC	31	10.69	10.95	10.95	1.2	15.79	35.66	0.74
410	100yrARI15%CC	32.6	10.69	10.97	10.97	1.24	16.38	35.66	0.75
410	100yrARI30%CC	37.2	10.69	11.13	11.01	1.24	22.14	35.66	0.59
410	PMF	326	10.69	13.51	12.57	2.96	106.83	35.67	0.56
406.86	20yrARI	18	10.53	10.75	10.75	1.09	10.36	31.26	0.73
406.86	100yrARI	27.9	10.53	10.84	10.87	1.53	13.22	33.22	0.87
406.86	100yrARI10%CC	31	10.53	10.88	10.9	1.62	14.37	33.87	0.88
406.86	100yrARI15%CC	32.6	10.53	10.9	10.94	1.67	14.97	34.21	0.88
406.86	100yrARI30%CC	37.2	10.53	11.14	10.98	1.33	25.59	44.04	0.54
406.86	PMF	326	10.53	13.62	12.35	2.43	134.93	44.05	0.44
405	20yrARI	18	9.42	10.36	10.53	4.09	6.08	15.85	1.36
405	100yrARI	27.9	9.42	10.55	10.7	4.16	9.51	20.7	1.26
405	100yrARI10%CC	31	9.42	10.6	10.73	4.17	10.57	22.18	1.24
405	100yrARI15%CC	32.6	9.42	10.62	10.75	4.24	10.97	22.62	1.25
405	100yrARI30%CC	37.2	9.42	11.18	10.8	1.62	35.11	47.17	0.39
405	PMF	326	9.42	13.67	12.14	2.55	152.64	47.18	0.4
400	20yrARI	18	3.97	8.14	5.7	1.5	15.57	6.93	0.24
400	100yrARI	27.9	3.97	9.72	6.28	1.41	33.41	16.43	0.19
400	100yrARI10%CC	31	3.97	10.22	6.47	1.32	43.52	26.84	0.17
400	100yrARI15%CC	32.6	3.97	10.43	6.56	1.28	51.16	49.11	0.16
400	100yrARI30%CC	37.2	3.97	11.2	6.83	1	95.7	62.27	0.12
400	PMF	326	3.97	13.7	11.9	3.2	251.93	62.28	0.33

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
395	20yrARI	41.3	3.87	7.05	7.05	4.77	10.67	6.6	0.88
395	100yrARI	51.8	3.87	9.73	7.58	1.55	97.95	77.6	0.21
395	100yrARI10%CC	57.5	3.87	10.24	7.77	1.23	142.03	98.15	0.16
395	100yrARI15%CC	60.5	3.87	10.45	7.87	1.13	165.59	120.7	0.14
395	100yrARI30%CC	69.2	3.87	11.21	8.13	0.82	268.87	148.59	0.1
395	PMF	351.9	3.87	13.81	10.61	1.35	758.99	199.56	0.14
390	20yrARI	41.3	3.81	6.51	6.92	5.62	8.33	5.71	1.12
390	100yrARI	51.8	3.81	9.73	7.36	1.46	104.13	81.41	0.19
390	100yrARI10%CC	57.5	3.81	10.24	7.6	1.17	151.53	109.41	0.15
390	100yrARI15%CC	60.5	3.81	10.46	7.69	1.08	177.14	126.59	0.13
390	100yrARI30%CC	69.2	3.81	11.21	7.99	0.79	283.17	152.44	0.09
390	PMF	351.9	3.81	13.81	10.55	1.33	784.63	203.11	0.13
380	20yrARI	41.3	3.67	7.02	6.91	4.44	12.72	8.33	0.8
380	100yrARI	51.8	3.67	9.73	7.34	1.47	104.98	77.95	0.19
380	100yrARI10%CC	57.5	3.67	10.25	7.57	1.15	163.46	134.33	0.15
380	100yrARI15%CC	60.5	3.67	10.46	7.66	1.05	192.38	139.59	0.13
380	100yrARI30%CC	69.2	3.67	11.21	7.92	0.75	308.97	166.23	0.09
380	PMF	351.9	3.67	13.82	10.52	1.24	844.71	215.84	0.13
375	20yrARI	41.3	3.58	7.21	6.7	3.75	15.55	9.33	0.64
375	100yrARI	51.8	3.58	9.73	7.13	1.47	102.65	78.5	0.19
375	100yrARI10%CC	57.5	3.58	10.24	7.36	1.16	163.69	136.37	0.14
375	100yrARI15%CC	60.5	3.58	10.46	7.46	1.05	193.1	141.36	0.13
375	100yrARI30%CC	69.2	3.58	11.21	7.71	0.75	311.6	167.81	0.09
375	PMF	351.9	3.58	13.82	10.55	1.23	856.38	216.56	0.12
368.38	20yrARI	41.3	3.47	7.25	6.64	3.58	16.54	9.56	0.6
368.38	100yrARI	51.8	3.47	9.72	7.09	1.53	96	82.07	0.2
368.38	100yrARI10%CC	57.5	3.47	10.24	7.28	1.19	160.7	146.55	0.15
368.38	100yrARI15%CC	60.5	3.47	10.45	7.37	1.08	192.24	149.57	0.13
368.38	100yrARI30%CC	69.2	3.47	11.21	7.64	0.76	315.8	177.51	0.09
368.38	PMF	351.9	3.47	13.81	10.6	1.25	845.95	205.85	0.13
355.18	20yrARI	41.3	3.24	7.38	6.3	2.87	22.07	11.83	0.46
355.18	100yrARI	51.8	3.24	9.71	6.7	1.52	86.31	94.97	0.19
355.18	100yrARI10%CC	57.5	3.24	10.23	6.89	1.25	142.61	111.22	0.15
355.18	100yrARI15%CC	60.5	3.24	10.45	6.98	1.09	194.05	164.07	0.13
355.18	100yrARI30%CC	69.2	3.24	11.21	7.25	0.76	327.8	184.56	0.09
355.18	PMF	351.9	3.24	13.81	10.67	1.29	834.62	195.23	0.13
350	20yrARI	41.3	3.18	7.44	5.98	2.5	26.04	13.47	0.4
350	100yrARI	51.8	3.18	9.71	6.4	1.46	81.64	72.14	0.19
350	100yrARI10%CC	57.5	3.18	10.22	6.59	1.31	119.86	76.03	0.16
350	100yrARI15%CC	60.5	3.18	10.43	6.69	1.25	136.03	76.62	0.15
350	100yrARI30%CC	69.2	3.18	11.2	7.02	0.89	271.44	141.75	0.1
350	PMF	351.9	3.18	13.79	10.8	1.71	638.71	141.75	0.17

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
345	20yrARI	41.3	3.12	7.46	5.97	2.36	28.52	14.84	0.37
345	100yrARI	51.8	3.12	9.72	6.35	1.39	81.56	40.29	0.18
345	100yrARI10%CC	57.5	3.12	10.22	6.54	1.27	118.02	75.98	0.16
345	100yrARI15%CC	60.5	3.12	10.43	6.63	1.23	134.12	76.53	0.15
345	100yrARI30%CC	69.2	3.12	11.2	6.9	0.89	268.85	142.38	0.1
345	PMF	351.9	3.12	13.79	10.77	1.74	637.51	142.38	0.17
334.53	20yrARI	61.6	2.99	7.45	5.82	2.59	41.97	17.57	0.4
334.53	100yrARI	86.5	2.99	9.65	6.39	1.96	89.54	25.6	0.25
334.53	100yrARI10%CC	96	2.99	10.15	6.58	1.94	103.15	30.85	0.24
334.53	100yrARI15%CC	101.1	2.99	10.35	6.7	1.95	110.33	38.42	0.23
334.53	100yrARI30%CC	115.5	2.99	11.16	6.95	1.56	233.4	144.82	0.18
334.53	PMF	351.9	2.99	13.78	9.72	1.87	612.9	144.82	0.18
321.93	20yrARI	61.6	2.86	7.31	6.29	3.06	33.99	15.97	0.48
321.93	100yrARI	86.5	2.86	9.62	6.85	2.14	80.8	24.48	0.27
321.93	100yrARI10%CC	96	2.86	10.12	7.03	2.11	93.45	26.31	0.26
321.93	100yrARI15%CC	101.1	2.86	10.33	7.12	2.12	99.17	30.68	0.25
321.93	100yrARI30%CC	115.5	2.86	11.14	7.38	1.71	207.49	134.65	0.19
321.93	PMF	351.9	2.86	13.77	10.07	1.99	575.68	140.22	0.2
315	20yrARI	61.6	2.77	7.14	6.28	3.46	28.75	14.64	0.55
315	100yrARI	86.5	2.77	9.59	6.93	2.27	76.95	24.13	0.28
315	100yrARI10%CC	96	2.77	10.09	7.15	2.22	89.52	25.84	0.27
315	100yrARI15%CC	101.1	2.77	10.3	7.26	2.23	95	28.17	0.26
315	100yrARI30%CC	115.5	2.77	11.13	7.64	1.79	197.46	120.86	0.2
315	PMF	351.9	2.77	13.76	10.36	2.08	557.77	137.64	0.2
310	20yrARI	61.6	2.71	7.23	6.16	3.08	33.36	15.42	0.48
310	100yrARI	86.5	2.71	9.6	6.74	2.19	79.77	23.71	0.27
310	100yrARI10%CC	96	2.71	10.1	6.93	2.16	92.05	25.45	0.26
310	100yrARI15%CC	101.1	2.71	10.31	7.03	2.18	97.39	27.03	0.26
310	100yrARI30%CC	115.5	2.71	11.13	7.3	1.76	199.22	117.53	0.2
310	PMF	351.9	2.71	13.76	10.12	2.09	552.39	135.84	0.2
305	20yrARI	61.6	2.65	7.19	6.12	3.18	32.13	15.34	0.49
305	100yrARI	86.5	2.65	9.6	6.82	2.19	79.34	23.8	0.27
305	100yrARI10%CC	96	2.65	10.1	7.01	2.16	91.71	25.56	0.26
305	100yrARI15%CC	101.1	2.65	10.31	7.11	2.17	97.08	26.28	0.25
305	100yrARI30%CC	115.5	2.65	11.13	7.37	1.74	201.66	114.77	0.19
305	PMF	351.9	2.65	13.76	10.17	2.1	547.04	133.76	0.2
300	20yrARI	61.6	2.59	7.19	6.09	3.13	33.11	15.66	0.48
300	100yrARI	86.5	2.59	9.6	6.75	2.19	80.74	23.96	0.27
300	100yrARI10%CC	96	2.59	10.1	6.96	2.15	93.2	25.69	0.26
300	100yrARI15%CC	101.1	2.59	10.31	7.06	2.16	98.61	26.41	0.25
300	100yrARI30%CC	115.5	2.59	11.13	7.33	1.71	205.21	112.01	0.19
300	PMF	351.9	2.59	13.76	10.72	2.1	542.89	131.87	0.2

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
290	20yrARI	61.6	2.49	7.24	5.9	2.87	37.3	16.57	0.43
290	100yrARI	86.5	2.49	9.61	6.51	2.06	86.51	24.94	0.25
290	100yrARI10%CC	96	2.49	10.11	6.72	2.02	99.47	26.72	0.24
290	100yrARI15%CC	101.1	2.49	10.32	6.82	2.03	105.09	27.46	0.24
290	100yrARI30%CC	115.5	2.49	11.14	7.14	1.62	212.83	108.88	0.18
290	PMF	351.9	2.49	13.76	9.98	2.09	538.53	130.13	0.2
285	20yrARI	61.6	2.44	7.23	5.88	2.88	36.76	16.62	0.43
285	100yrARI	86.5	2.44	9.61	6.51	2.02	86.96	25.35	0.25
285	100yrARI10%CC	96	2.44	10.12	6.75	1.99	100.1	27.15	0.23
285	100yrARI15%CC	101.1	2.44	10.32	6.85	2	105.8	27.89	0.23
285	100yrARI30%CC	115.5	2.44	11.14	7.12	1.59	215.13	105.8	0.17
285	PMF	351.9	2.44	13.75	9.9	2.1	530.69	128.22	0.2
280	20yrARI	61.6	2.39	7.18	5.88	3	34.25	16.19	0.45
280	100yrARI	86.5	2.39	9.58	6.56	2.17	72.61	25.34	0.26
280	100yrARI10%CC	96	2.39	10.07	6.78	2.18	80.52	27.12	0.26
280	100yrARI15%CC	101.1	2.39	10.27	6.89	2.21	83.77	27.85	0.26
280	100yrARI30%CC	115.5	2.39	11.03	7.21	2.21	95.88	99.78	0.24
280	PMF	351.9	2.39	13.74	9.95	2.19	514.7	126.27	0.21
275	20yrARI	61.6	2.35	7.11	5.42	2.96	24.41	9.35	0.45
275	100yrARI	86.5	2.35	9.43	6.14	2.51	46.49	21.46	0.31
275	100yrARI10%CC	96	2.35	9.92	6.42	2.56	51.32	25.07	0.31
275	100yrARI15%CC	101.1	2.35	10.11	6.54	2.62	53.26	27.9	0.31
275	100yrARI30%CC	115.5	2.35	10.86	6.87	2.66	60.72	89.17	0.3
275	PMF	351.9	2.35	13.69	10.68	2.5	468.54	124.17	0.24
270	20yrARI	61.6	2.3	6.95	5.29	3.4	20.56	6.15	0.5
270	100yrARI	86.5	2.3	9.23	6.06	3.12	34.16	17.83	0.38
270	100yrARI10%CC	96	2.3	9.69	6.34	3.23	36.89	53.63	0.38
270	100yrARI15%CC	101.1	2.3	10.12	6.48	2.7	88.78	67.05	0.31
270	100yrARI30%CC	115.5	2.3	10.96	6.86	2.27	149.8	83.66	0.25
270	PMF	351.9	2.3	13.65	11.4	2.86	420.78	122.73	0.27
250		Culvert							
230	20yrARI	65.6	1.91	4.43	4.98	6.08	11.08	7.75	1.27
230	100yrARI	95.4	1.91	5.79	5.79	5.37	23.34	10	0.89
230	100yrARI10%CC	105.9	1.91	6	6	5.55	25.46	10.31	0.9
230	100yrARI15%CC	111.4	1.91	6.11	6.11	5.64	26.57	10.46	0.9
230	100yrARI30%CC	127.4	1.91	6.41	6.41	5.87	29.81	10.91	0.9
230	PMF	434.4	1.91	10.86	10.86	7.39	113.23	45.47	0.8
220	20yrARI	65.6	1.8	4.56	5.18	6.27	14.82	14.91	1.25
220	100yrARI	95.4	1.8	5.04	5.68	6.84	22.54	16.92	1.25
220	100yrARI10%CC	105.9	1.8	5.14	5.83	7.21	24.17	17.31	1.3
220	100yrARI15%CC	111.4	1.8	5.18	5.91	7.39	24.98	17.51	1.32
220	100yrARI30%CC	127.4	1.8	5.31	6.12	7.89	27.27	18.05	1.38

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
220	PMF	434.4	1.8	7	8.64	13.1	63.08	23.79	1.87
215	20yrARI	65.6	1.77	4.47	5.1	6.4	15.29	17.2	1.29
215	100yrARI	95.4	1.77	4.88	5.57	7.11	22.74	19.03	1.33
215	100yrARI10%CC	105.9	1.77	4.97	5.71	7.49	24.38	19.4	1.38
215	100yrARI15%CC	111.4	1.77	5.01	5.78	7.68	25.22	20.2	1.4
215	100yrARI30%CC	127.4	1.77	5.13	5.96	8.19	27.6	20.74	1.47
215	PMF	434.4	1.77	6.6	8.25	13.74	62.85	26.18	2.03
210	20yrARI	65.6	1.73	4.48	5.1	6.38	16.3	17.87	1.25
210	100yrARI	95.4	1.73	4.87	5.56	7.16	23.49	18.97	1.31
210	100yrARI10%CC	105.9	1.73	4.96	5.69	7.55	25.07	19.2	1.36
210	100yrARI15%CC	111.4	1.73	5	5.75	7.75	25.87	19.33	1.39
210	100yrARI30%CC	127.4	1.73	5.11	5.94	8.28	28.39	22.81	1.46
210	PMF	434.4	1.73	6.49	8.12	14.09	63.45	27.27	2.08
205	20yrARI	65.6	1.67	4.39	5.01	6.47	16.21	19.47	1.28
205	100yrARI	95.4	1.67	4.75	5.46	7.3	23.52	20.67	1.35
205	100yrARI10%CC	105.9	1.67	4.83	5.59	7.69	25.16	20.93	1.4
205	100yrARI15%CC	111.4	1.67	4.87	5.65	7.89	26	21.06	1.43
205	100yrARI30%CC	127.4	1.67	4.98	5.82	8.42	28.33	21.42	1.5
205	PMF	434.4	1.67	6.28	7.9	14.33	63.9	29.38	2.15
200	20yrARI	65.6	1.62	4.26	4.9	6.55	15.63	20.9	1.32
200	100yrARI	95.4	1.62	4.62	5.35	7.37	23.3	22.31	1.39
200	100yrARI10%CC	105.9	1.62	4.69	5.47	7.76	25.04	22.62	1.45
200	100yrARI15%CC	111.4	1.62	4.73	5.53	7.95	25.93	22.77	1.47
200	100yrARI30%CC	127.4	1.62	4.84	5.7	8.48	28.38	23.2	1.54
200	PMF	434.4	1.62	6.12	7.73	14.33	64.95	31.37	2.19
195	20yrARI	65.6	1.56	4.2	4.85	6.59	15.68	22.74	1.33
195	100yrARI	95.4	1.56	4.53	5.27	7.46	23.56	24.08	1.41
195	100yrARI10%CC	105.9	1.56	4.61	5.39	7.85	25.36	24.37	1.47
195	100yrARI15%CC	111.4	1.56	4.65	5.45	8.04	26.26	24.52	1.5
195	100yrARI30%CC	127.4	1.56	4.75	5.61	8.58	28.77	24.92	1.57
195	PMF	434.4	1.56	8.48	7.58	6.16	154.26	38.42	0.75
190	20yrARI	65.6	1.5	4.13	4.79	6.63	15.56	24.13	1.34
190	100yrARI	95.4	1.5	5.38	5.19	4.13	49.67	31.64	0.68
190	100yrARI10%CC	105.9	1.5	5.58	5.31	4.11	56.09	32.58	0.66
190	100yrARI15%CC	111.4	1.5	5.66	5.37	4.14	58.91	32.99	0.66
190	100yrARI30%CC	127.4	1.5	5.89	5.52	4.22	66.61	34.07	0.65
190	PMF	434.4	1.5	8.57	7.45	5.73	167.31	40.96	0.69
185	20yrARI	65.6	1.44	4.08	4.74	6.67	15.34	24.39	1.34
185	100yrARI	95.4	1.44	5.43	5.13	3.87	53.92	32.84	0.63
185	100yrARI10%CC	105.9	1.44	5.62	5.25	3.87	60.35	33.66	0.61
185	100yrARI15%CC	111.4	1.44	5.7	5.31	3.9	63.22	34.03	0.61
185	100yrARI30%CC	127.4	1.44	5.93	5.46	3.99	71.07	35	0.61

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
185	PMF	434.4	1.44	8.6	7.35	5.51	174.73	42.35	0.66
180	20yrARI	65.6	1.38	4.02	4.7	6.69	15.25	23.26	1.34
180	100yrARI	95.4	1.38	5.43	5.1	3.81	55.48	33.64	0.61
180	100yrARI10%CC	105.9	1.38	5.62	5.23	3.82	62	34.31	0.6
180	100yrARI15%CC	111.4	1.38	5.71	5.28	3.85	64.91	34.61	0.6
180	100yrARI30%CC	127.4	1.38	5.93	5.44	3.95	72.83	35.41	0.6
180	PMF	434.4	1.38	8.6	7.33	5.51	177.11	42.58	0.66
175	20yrARI	65.6	1.33	3.93	4.61	6.76	14.25	20.27	1.4
175	100yrARI	95.4	1.33	5.5	4.99	3.36	60.97	35.63	0.54
175	100yrARI10%CC	105.9	1.33	5.69	5.11	3.38	67.69	36.37	0.53
175	100yrARI15%CC	111.4	1.33	5.77	5.17	3.41	70.74	36.7	0.53
175	100yrARI30%CC	127.4	1.33	6	5.32	3.5	79.1	37.6	0.53
175	PMF	434.4	1.33	8.69	7.13	4.88	190.75	45.17	0.58
170	20yrARI	65.6	1.26	3.85	4.57	6.75	14.04	18.49	1.4
170	100yrARI	95.4	1.26	5.46	4.96	3.46	61.96	36.01	0.55
170	100yrARI10%CC	105.9	1.26	5.64	5.09	3.5	68.68	36.71	0.55
170	100yrARI15%CC	111.4	1.26	5.73	5.15	3.53	71.7	37.02	0.55
170	100yrARI30%CC	127.4	1.26	5.95	5.31	3.65	79.97	37.86	0.55
170	PMF	434.4	1.26	8.6	7.21	5.22	192.29	46.67	0.63
165	20yrARI	65.6	1.19	4.79	4.49	3.28	40.85	29.78	0.57
165	100yrARI	95.4	1.19	5.48	4.89	3.27	63.93	36.18	0.52
165	100yrARI10%CC	105.9	1.19	5.66	5.01	3.33	70.57	36.98	0.52
165	100yrARI15%CC	111.4	1.19	5.74	5.07	3.37	73.58	37.33	0.52
165	100yrARI30%CC	127.4	1.19	5.96	5.24	3.5	81.84	38.29	0.53
165	PMF	434.4	1.19	8.6	7.17	5.08	195.73	47.54	0.61
160	20yrARI	65.6	1.15	4.79	4.47	3.26	41.23	29.42	0.57
160	100yrARI	95.4	1.15	5.48	4.87	3.27	64.15	36.23	0.52
160	100yrARI10%CC	105.9	1.15	5.66	4.98	3.32	70.8	37.12	0.51
160	100yrARI15%CC	111.4	1.15	5.74	5.05	3.36	73.83	37.52	0.52
160	100yrARI30%CC	127.4	1.15	5.96	5.22	3.48	82.17	38.59	0.52
160	PMF	434.4	1.15	8.62	7.15	5.02	198.22	48.5	0.6
155	20yrARI	65.6	1.11	4.8	4.47	3.22	41.42	29.2	0.55
155	100yrARI	95.4	1.11	5.49	4.85	3.19	64.44	36.25	0.5
155	100yrARI10%CC	105.9	1.11	5.67	4.97	3.23	71.15	37.2	0.49
155	100yrARI15%CC	111.4	1.11	5.76	5.03	3.27	74.21	37.62	0.5
155	100yrARI30%CC	127.4	1.11	5.98	5.2	3.38	82.65	38.77	0.5
155	PMF	434.4	1.11	8.66	7.07	4.77	201.68	49.87	0.56
150	20yrARI	65.6	1.05	4.8	4.44	3.19	41.35	28.68	0.54
150	100yrARI	95.4	1.05	5.48	4.83	3.2	63.88	36.07	0.5
150	100yrARI10%CC	105.9	1.05	5.66	4.95	3.25	70.55	37.07	0.49
150	100yrARI15%CC	111.4	1.05	5.74	5.02	3.28	73.58	37.52	0.49
150	100yrARI30%CC	127.4	1.05	5.96	5.19	3.4	81.99	38.71	0.5

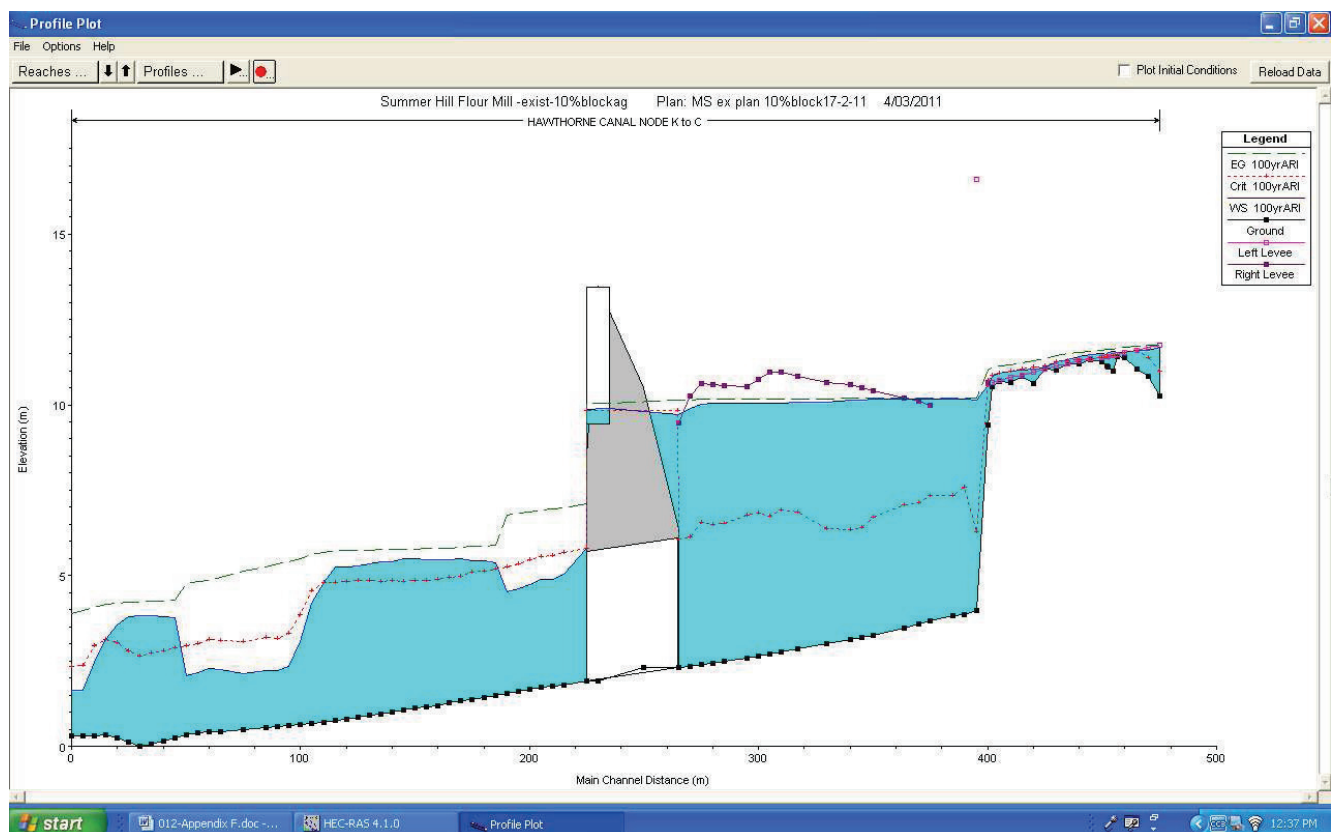
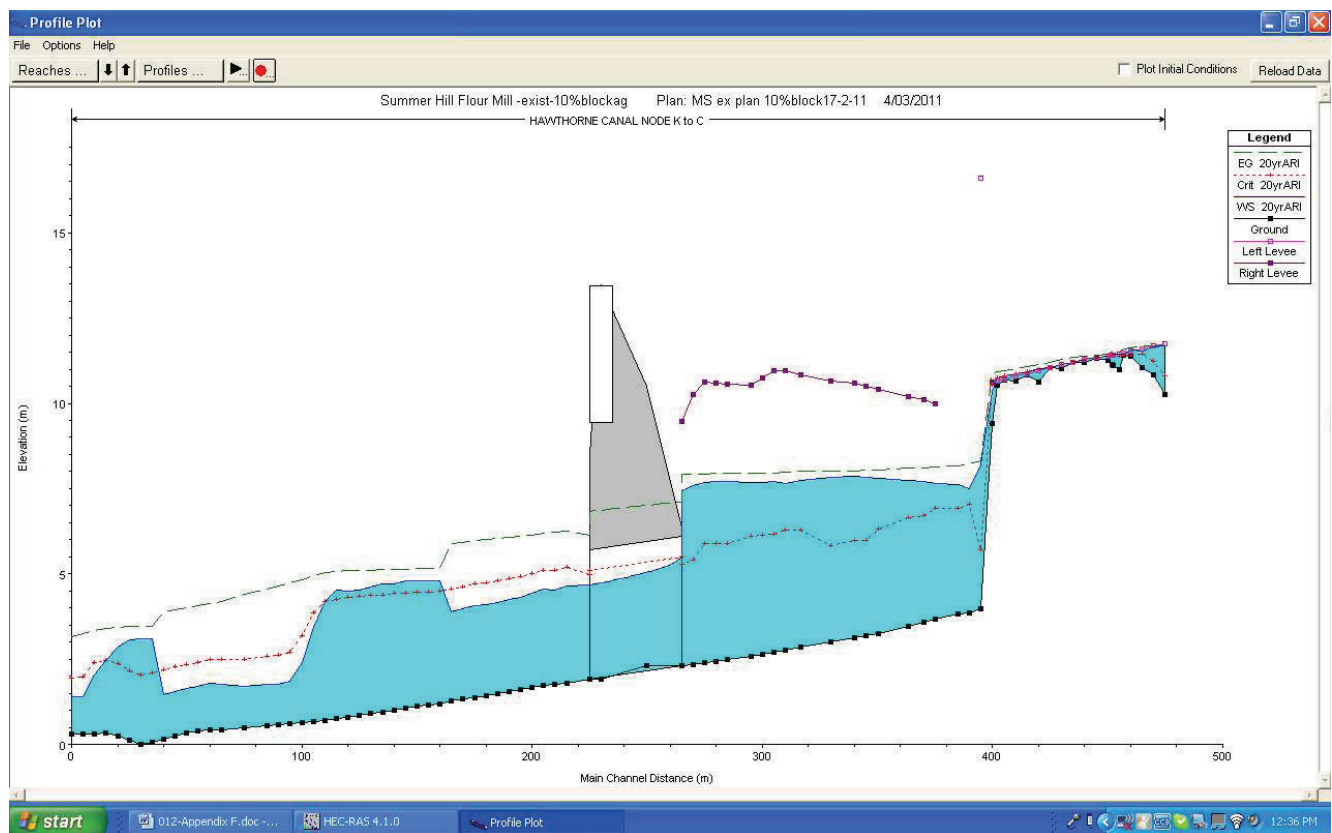
River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
150	PMF	434.4	1.05	8.65	7.09	4.79	201.8	50.54	0.56
145	20yrARI	65.6	1	4.72	4.43	3.43	38.75	27.77	0.58
145	100yrARI	95.4	1	5.42	4.85	3.42	61.27	35.77	0.53
145	100yrARI10%CC	105.9	1	5.6	4.97	3.47	67.95	36.79	0.52
145	100yrARI15%CC	111.4	1	5.68	5.05	3.51	70.96	37.24	0.53
145	100yrARI30%CC	127.4	1	5.9	5.23	3.64	79.24	38.45	0.53
145	PMF	434.4	1	8.58	7.18	5.08	199.05	50.76	0.59
140	20yrARI	65.6	0.95	4.71	4.39	3.39	37.68	26.9	0.57
140	100yrARI	95.4	0.95	5.41	4.83	3.41	59.63	35.53	0.53
140	100yrARI10%CC	105.9	0.95	5.59	4.96	3.46	66.27	36.57	0.52
140	100yrARI15%CC	111.4	0.95	5.67	5.04	3.5	69.26	37.03	0.52
140	100yrARI30%CC	127.4	0.95	5.89	5.22	3.62	77.49	38.26	0.53
140	PMF	434.4	0.95	8.57	7.19	5.04	196	50.02	0.59
135	20yrARI	65.6	0.9	4.62	4.38	3.63	34.12	25.48	0.62
135	100yrARI	95.4	0.9	5.34	4.84	3.6	55.95	34.89	0.56
135	100yrARI10%CC	105.9	0.9	5.53	4.99	3.64	62.72	36	0.55
135	100yrARI15%CC	111.4	0.9	5.61	5.08	3.68	65.68	36.47	0.55
135	100yrARI30%CC	127.4	0.9	5.83	5.27	3.8	73.87	37.67	0.56
135	PMF	434.4	0.9	8.51	7.25	5.25	187.98	47.65	0.62
130	20yrARI	65.6	0.85	4.51	4.35	3.86	30.71	23.81	0.66
130	100yrARI	95.4	0.85	5.27	4.85	3.77	52.58	34.43	0.59
130	100yrARI10%CC	105.9	0.85	5.47	5.02	3.8	59.5	35.63	0.58
130	100yrARI15%CC	111.4	0.85	5.55	5.1	3.84	62.47	36.13	0.58
130	100yrARI30%CC	127.4	0.85	5.78	5.3	3.95	70.65	37.24	0.58
130	PMF	434.4	0.85	8.46	7.29	5.4	183.56	46.76	0.63
125	20yrARI	65.6	0.8	4.51	4.31	3.84	29.98	23.15	0.66
125	100yrARI	95.4	0.8	5.26	4.84	3.77	51.46	34.37	0.58
125	100yrARI10%CC	105.9	0.8	5.46	5.01	3.79	58.47	35.62	0.57
125	100yrARI15%CC	111.4	0.8	5.55	5.1	3.83	61.48	36.01	0.57
125	100yrARI30%CC	127.4	0.8	5.77	5.3	3.94	69.69	37.05	0.58
125	PMF	434.4	0.8	8.46	7.29	5.32	183.22	47.14	0.62
120	20yrARI	65.6	0.76	4.53	4.24	3.73	30.89	22.97	0.63
120	100yrARI	95.4	0.76	5.26	4.79	3.75	51.83	34.69	0.58
120	100yrARI10%CC	105.9	0.76	5.46	4.97	3.77	58.8	35.62	0.57
120	100yrARI15%CC	111.4	0.76	5.54	5.06	3.81	61.8	35.98	0.57
120	100yrARI30%CC	127.4	0.76	5.76	5.27	3.94	69.84	36.94	0.57
120	PMF	434.4	0.76	8.44	7.3	5.37	183.4	48.28	0.63
115	20yrARI	65.6	0.71	4.18	4.18	4.5	24.45	18.44	0.78
115	100yrARI	95.4	0.71	4.79	4.79	4.88	37.79	25.41	0.78
115	100yrARI10%CC	105.9	0.71	4.98	4.98	4.96	42.78	27.56	0.78
115	100yrARI15%CC	111.4	0.71	5.09	5.09	4.95	46.43	34.12	0.76
115	100yrARI30%CC	127.4	0.71	5.32	5.32	5.09	54.22	35.18	0.77

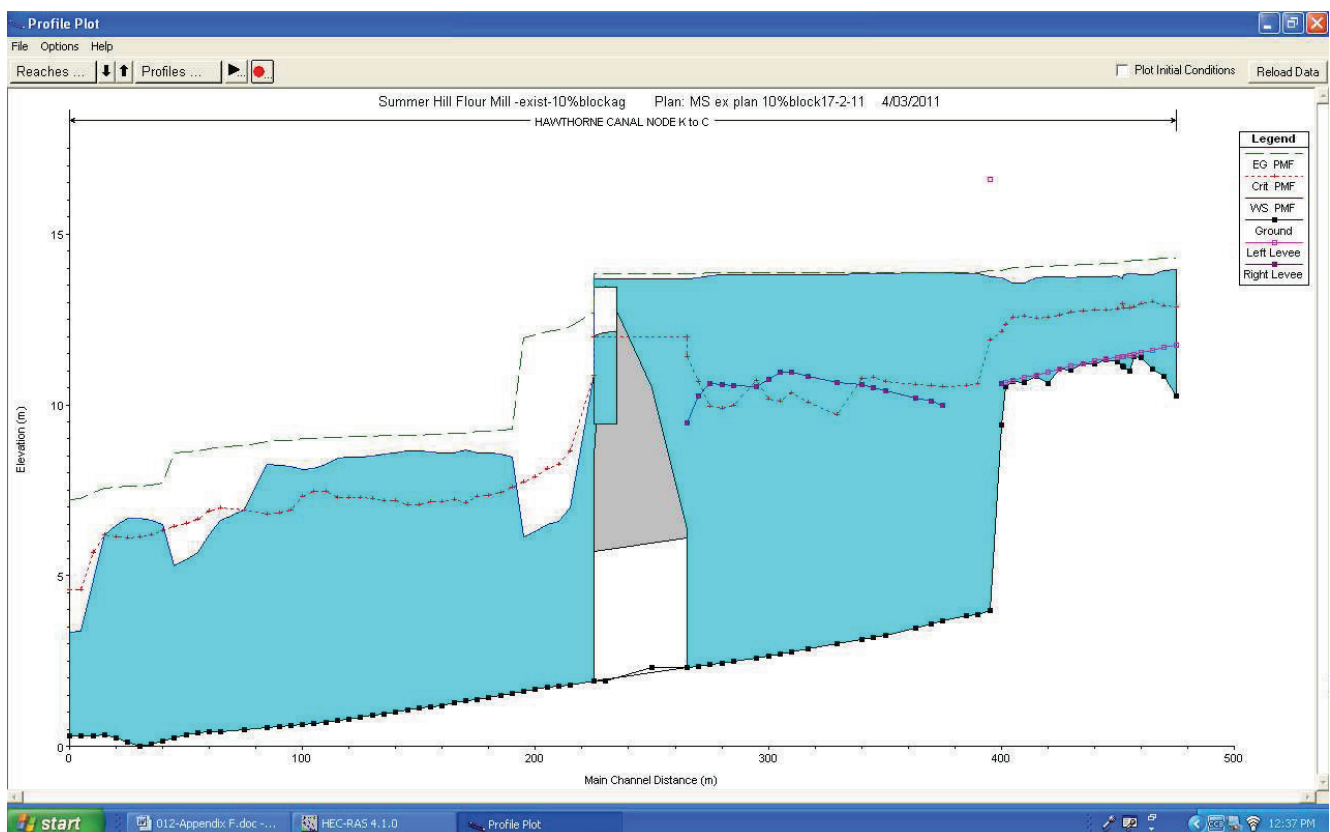
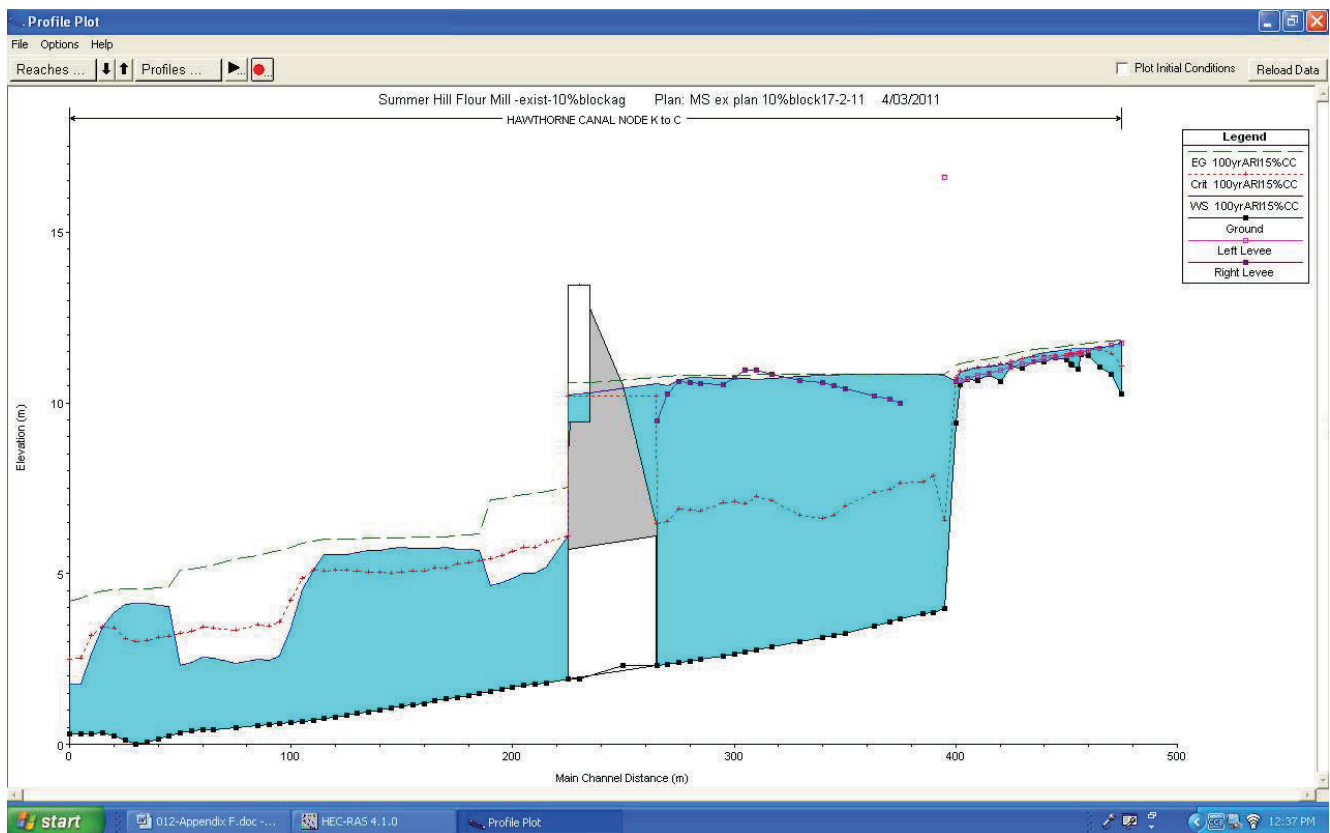
River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
115	PMF	434.4	0.71	8.24	7.46	6.07	178.2	52.36	0.71
110	20yrARI	65.6	0.66	3.42	3.85	5.64	15	11.84	1.15
110	100yrARI	95.4	0.66	4.19	4.56	5.69	26.36	18.18	1.01
110	100yrARI10%CC	105.9	0.66	4.4	4.75	5.73	30.44	20.55	0.98
110	100yrARI15%CC	111.4	0.66	4.52	4.85	5.72	32.88	21.84	0.97
110	100yrARI30%CC	127.4	0.66	4.83	5.13	5.69	40.38	25.43	0.92
110	PMF	434.4	0.66	8.13	7.47	6.01	178.97	54.09	0.72
105	20yrARI	65.6	0.63	2.39	3.18	6.92	9.48	6.12	1.77
105	100yrARI	95.4	0.63	3.06	3.86	6.95	14.77	10.02	1.49
105	100yrARI10%CC	105.9	0.63	3.29	4.13	6.92	17.22	11.53	1.41
105	100yrARI15%CC	111.4	0.63	3.41	4.22	6.9	18.66	12.33	1.37
105	100yrARI30%CC	127.4	0.63	3.75	4.51	6.82	23.25	14.59	1.28
105	PMF	434.4	0.63	8.09	7.3	5.52	181.52	54.22	0.65
100	20yrARI	65.6	0.6	1.86	2.69	7.5	8.74	7.44	2.21
100	100yrARI	95.4	0.6	2.33	3.3	7.75	12.3	7.74	1.96
100	100yrARI10%CC	105.9	0.6	2.49	3.48	7.78	13.62	8.05	1.88
100	100yrARI15%CC	111.4	0.6	2.58	3.58	7.78	14.37	8.57	1.83
100	100yrARI30%CC	127.4	0.6	2.85	3.84	7.76	16.84	10.11	1.71
100	PMF	434.4	0.6	8.18	6.93	4.81	192.54	55.42	0.56
95	20yrARI	65.6	0.58	1.77	2.6	7.53	8.71	7.72	2.26
95	100yrARI	95.4	0.58	2.21	3.16	7.83	12.19	8.01	2.02
95	100yrARI10%CC	105.9	0.58	2.37	3.35	7.87	13.46	8.12	1.95
95	100yrARI15%CC	111.4	0.58	2.45	3.46	7.88	14.15	8.26	1.91
95	100yrARI30%CC	127.4	0.58	2.7	3.73	7.88	16.26	8.87	1.8
95	PMF	434.4	0.58	8.22	6.83	4.6	196.17	56.3	0.54
90	20yrARI	65.6	0.55	1.77	2.58	7.39	8.87	7.62	2.19
90	100yrARI	95.4	0.55	2.22	3.18	7.7	12.39	7.86	1.96
90	100yrARI10%CC	105.9	0.55	2.39	3.39	7.74	13.68	8	1.88
90	100yrARI15%CC	111.4	0.55	2.47	3.5	7.75	14.4	8.25	1.84
90	100yrARI30%CC	127.4	0.55	2.73	3.79	7.74	16.64	8.98	1.72
90	PMF	434.4	0.55	8.25	6.8	4.52	203.95	58.2	0.52
80	20yrARI	65.6	0.49	1.71	2.49	7.26	9.04	7.84	2.16
80	100yrARI	95.4	0.49	2.13	3.05	7.67	12.44	8.11	1.98
80	100yrARI10%CC	105.9	0.49	2.28	3.24	7.75	13.67	8.22	1.92
80	100yrARI15%CC	111.4	0.49	2.37	3.33	7.76	14.36	8.55	1.87
80	100yrARI30%CC	127.4	0.49	2.61	3.59	7.79	16.56	9.63	1.76
80	PMF	434.4	0.49	6.93	6.93	6.74	111.21	36.59	0.86
70	20yrARI	65.6	0.44	1.76	2.49	6.93	9.47	7.39	1.95
70	100yrARI	95.4	0.44	2.24	3.1	7.28	13.11	7.64	1.76
70	100yrARI10%CC	105.9	0.44	2.42	3.3	7.33	14.55	8.53	1.69
70	100yrARI15%CC	111.4	0.44	2.52	3.4	7.32	15.42	9.03	1.64
70	100yrARI30%CC	127.4	0.44	2.81	3.7	7.31	18.21	10.46	1.54

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
70	PMF	434.4	0.44	6.63	7	7.3	106.34	38.91	0.94
65	20yrARI	65.6	0.43	1.78	2.49	6.76	9.7	7.33	1.88
65	100yrARI	95.4	0.43	2.28	3.11	7.12	13.42	7.95	1.69
65	100yrARI10%CC	105.9	0.43	2.47	3.33	7.17	14.96	8.96	1.62
65	100yrARI15%CC	111.4	0.43	2.56	3.43	7.17	15.88	9.5	1.59
65	100yrARI30%CC	127.4	0.43	2.85	3.71	7.17	18.85	11.07	1.48
65	PMF	434.4	0.43	6.18	6.9	7.96	98.58	40.95	1.06
60	20yrARI	65.6	0.39	1.69	2.41	6.81	9.63	7.74	1.95
60	100yrARI	95.4	0.39	2.15	3.01	7.24	13.19	7.98	1.8
60	100yrARI10%CC	105.9	0.39	2.31	3.2	7.31	14.53	8.8	1.73
60	100yrARI15%CC	111.4	0.39	2.4	3.3	7.33	15.34	9.36	1.7
60	100yrARI30%CC	127.4	0.39	2.65	3.57	7.36	17.94	10.9	1.6
60	PMF	434.4	0.39	5.66	6.63	8.49	88.46	40.85	1.19
55	20yrARI	65.6	0.33	1.63	2.35	6.83	9.61	7.78	1.96
55	100yrARI	95.4	0.33	2.07	2.95	7.27	13.12	8.05	1.82
55	100yrARI10%CC	105.9	0.33	2.23	3.14	7.36	14.41	8.61	1.76
55	100yrARI15%CC	111.4	0.33	2.32	3.24	7.38	15.18	9.24	1.73
55	100yrARI30%CC	127.4	0.33	4.26	3.5	3.74	47.36	23.78	0.61
55	PMF	434.4	0.33	5.46	6.53	8.7	85.32	42.08	1.24
50	20yrARI	65.6	0.24	1.54	2.26	6.87	9.54	7.73	1.98
50	100yrARI	95.4	0.24	3.77	2.88	3.25	38.25	21.66	0.56
50	100yrARI10%CC	105.9	0.24	3.96	3.07	3.37	42.43	23.4	0.57
50	100yrARI15%CC	111.4	0.24	4.05	3.17	3.43	44.69	24.1	0.57
50	100yrARI30%CC	127.4	0.24	4.3	3.44	3.59	50.89	25.92	0.58
50	PMF	434.4	0.24	5.29	6.43	8.89	83.01	43.54	1.28
45	20yrARI	65.6	0.16	1.45	2.18	6.92	9.49	7.68	1.99
45	100yrARI	95.4	0.16	3.79	2.79	3.14	40.7	24.26	0.54
45	100yrARI10%CC	105.9	0.16	3.98	3	3.25	45.5	26.42	0.54
45	100yrARI15%CC	111.4	0.16	4.08	3.12	3.3	48.09	27.39	0.54
45	100yrARI30%CC	127.4	0.16	4.33	3.4	3.45	55.34	29.89	0.55
45	PMF	434.4	0.16	6.51	6.3	5.83	157.91	61.64	0.75
40	20yrARI	65.6	0.07	3.1	2.1	2.74	28.16	18.31	0.51
40	100yrARI	95.4	0.07	3.82	2.72	3	44.23	26.13	0.5
40	100yrARI10%CC	105.9	0.07	4.02	2.94	3.1	49.49	28.21	0.51
40	100yrARI15%CC	111.4	0.07	4.11	3.04	3.15	52.3	29.1	0.51
40	100yrARI30%CC	127.4	0.07	4.37	3.34	3.28	60.15	31.49	0.51
40	PMF	434.4	0.07	6.63	6.19	5.46	170.93	63.67	0.69
35	20yrARI	65.6	0.01	3.11	2.04	2.68	29.14	19.03	0.5
35	100yrARI	95.4	0.01	3.83	2.65	2.93	45.97	27.28	0.49
35	100yrARI10%CC	105.9	0.01	4.03	2.89	3.03	51.5	29.42	0.49
35	100yrARI15%CC	111.4	0.01	4.13	2.99	3.07	54.45	30.31	0.49
35	100yrARI30%CC	127.4	0.01	4.39	3.3	3.2	62.67	32.72	0.5

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
35	PMF	434.4	0.01	6.68	6.12	5.29	176.93	64.2	0.66
30	20yrARI	65.6	0.12	3.06	2.15	2.83	27.79	19.16	0.54
30	100yrARI	95.4	0.12	3.81	2.78	3.03	45.34	27.96	0.51
30	100yrARI10%CC	105.9	0.12	4.01	3.01	3.11	51.15	30.31	0.51
30	100yrARI15%CC	111.4	0.12	4.11	3.11	3.15	54.27	31.23	0.51
30	100yrARI30%CC	127.4	0.12	4.37	3.4	3.26	62.95	33.7	0.51
30	PMF	434.4	0.12	6.68	6.1	5.29	179.54	64.26	0.67
25	20yrARI	69.8	0.23	2.84	2.35	3.44	23.26	16.94	0.69
25	100yrARI	103	0.23	3.55	3.04	3.72	38.33	25.54	0.66
25	100yrARI10%CC	114.3	0.23	3.75	3.31	3.79	43.79	27.98	0.65
25	100yrARI15%CC	120.3	0.23	3.86	3.4	3.82	46.68	29.2	0.65
25	100yrARI30%CC	137.5	0.23	4.13	3.65	3.92	55.05	32.14	0.64
25	PMF	438	0.23	6.47	6.13	5.75	167.39	62.07	0.74
20	20yrARI	69.8	0.32	2.45	2.45	4.3	16.98	12.4	0.96
20	100yrARI	103	0.32	3.12	3.12	4.59	28.02	20.49	0.89
20	100yrARI10%CC	114.3	0.32	3.34	3.34	4.63	32.73	23.1	0.87
20	100yrARI15%CC	120.3	0.32	3.43	3.43	4.68	34.95	24.23	0.86
20	100yrARI30%CC	137.5	0.32	3.68	3.68	4.81	41.38	27.25	0.85
20	PMF	438	0.32	6.2	6.2	6.27	150.72	59.26	0.83
15	20yrARI	69.8	0.31	2.03	2.4	5.2	16.88	15.44	1.28
15	100yrARI	103	0.31	2.44	2.95	5.94	24.12	20.12	1.31
15	100yrARI10%CC	114.3	0.31	2.58	3.11	6.11	26.92	21.73	1.31
15	100yrARI15%CC	120.3	0.31	2.65	3.19	6.19	28.43	22.55	1.31
15	100yrARI30%CC	137.5	0.31	2.83	3.42	6.42	32.84	24.79	1.3
15	PMF	438	0.31	4.87	5.69	8.56	107.34	47	1.29
10	20yrARI	69.8	0.3	1.4	1.97	6.01	11.61	14.11	2.12
10	100yrARI	103	0.3	1.64	2.36	6.76	15.23	15.67	2.19
10	100yrARI10%CC	114.3	0.3	1.72	2.46	6.94	16.46	16.17	2.2
10	100yrARI15%CC	120.3	0.3	1.76	2.52	7.03	17.11	16.43	2.2
10	100yrARI30%CC	137.5	0.3	1.87	2.66	7.25	18.96	17.14	2.2
10	PMF	438	0.3	3.36	4.59	8.84	55.25	32.56	1.83
5	20yrARI	69.8	0.29	1.41	1.95	5.86	11.91	14.3	2.05
5	100yrARI	103	0.29	1.65	2.34	6.63	15.53	15.87	2.14
5	100yrARI10%CC	114.3	0.29	1.72	2.44	6.82	16.76	16.36	2.15
5	100yrARI15%CC	120.3	0.29	1.76	2.5	6.91	17.41	16.62	2.15
5	100yrARI30%CC	137.5	0.29	1.87	2.64	7.14	19.26	17.33	2.16
5	PMF	438	0.29	3.35	4.58	8.81	55.65	32.88	1.82

Existing 10% Blockage Longport Street Culvert (Civil Certification)





River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
480	20yrARI	18	10.25	11.68	10.82	0.72	25.01	24.21	0.21
480	100yrARI	27.9	10.25	11.69	10.99	1.1	25.43	24.51	0.31
480	100yrARI10%CC	31	10.25	11.73	11.05	1.19	26.34	25.12	0.33
480	100yrARI15%CC	32.6	10.25	11.78	11.08	1.04	35.35	42.64	0.29
480	100yrARI30%CC	37.2	10.25	11.81	11.16	1.15	36.48	42.64	0.31
480	PMF	326	10.25	13.96	12.86	2.83	128.14	42.65	0.48
475	20yrARI	18	10.83	11.65	11.22	0.79	18.54	24.76	0.32
475	100yrARI	27.9	10.83	11.61	11.37	1.27	17.59	24.12	0.53
475	100yrARI10%CC	31	10.83	11.63	11.41	1.38	18.14	24.49	0.57
475	100yrARI15%CC	32.6	10.83	11.65	11.44	1.44	18.46	24.7	0.58
475	100yrARI30%CC	37.2	10.83	11.77	11.49	1.16	30	42.71	0.43
475	PMF	326	10.83	13.92	12.92	2.82	121.6	42.72	0.53
470	20yrARI	18	11.06	11.54	11.44	1.19	11.2	23.48	0.67
470	100yrARI	27.9	11.06	11.59	11.59	1.26	18.02	41.33	0.66
470	100yrARI10%CC	31	11.06	11.62	11.59	1.34	19.12	41.33	0.69
470	100yrARI15%CC	32.6	11.06	11.63	11.59	1.38	19.82	41.33	0.69
470	100yrARI30%CC	37.2	11.06	11.68	11.59	1.48	21.74	41.33	0.7
470	PMF	326	11.06	13.82	13.01	3.07	110.11	41.34	0.61
465	20yrARI	18	11.37	11.58	11.42	0.5	19.34	42.06	0.36
465	100yrARI	27.9	11.37	11.55	11.52	0.77	17.98	42.06	0.6
465	100yrARI10%CC	31	11.37	11.58	11.52	0.87	19.45	42.06	0.61
465	100yrARI15%CC	32.6	11.37	11.6	11.52	0.91	20.19	42.06	0.61
465	100yrARI30%CC	37.2	11.37	11.65	11.56	1.02	22.22	42.06	0.63
465	PMF	326	11.37	13.82	12.96	2.68	113.68	42.07	0.55
461.79	20yrARI	18	11.42	11.4	11.4		9.18	23.41	0
461.79	100yrARI	27.9	11.42	11.55	11.47	0.53	20.55	42.31	0.47
461.79	100yrARI10%CC	31	11.42	11.59	11.47	0.62	22.05	42.31	0.49
461.79	100yrARI15%CC	32.6	11.42	11.6	11.47	0.67	22.8	42.31	0.5
461.79	100yrARI30%CC	37.2	11.42	11.65	11.49	0.78	24.87	42.31	0.52
461.79	PMF	326	11.42	13.83	12.89	2.57	117.13	42.34	0.53
460	20yrARI	18	11	11.46	11.39	0.93	18.3	42.82	0.44
460	100yrARI	27.9	11	11.55	11.45	1.21	22.39	42.82	0.52
460	100yrARI10%CC	31	11	11.59	11.45	1.27	23.92	42.82	0.53
460	100yrARI15%CC	32.6	11	11.61	11.45	1.3	24.69	42.82	0.53
460	100yrARI30%CC	37.2	11	11.65	11.45	1.37	26.79	42.83	0.54
460	PMF	326	11	13.84	12.84	2.73	120.54	42.86	0.52
457.48	20yrARI	18	11.12	11.45	11.41	0.67	18.83	41.86	0.38
457.48	100yrARI	27.9	11.12	11.54	11.42	0.93	22.72	41.86	0.46
457.48	100yrARI10%CC	31	11.12	11.58	11.42	0.99	24.21	41.86	0.47
457.48	100yrARI15%CC	32.6	11.12	11.6	11.42	1.02	24.96	41.86	0.48
457.48	100yrARI30%CC	37.2	11.12	11.65	11.44	1.1	27	41.86	0.49
457.48	PMF	326	11.12	13.82	12.84	2.62	118	41.88	0.51

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
457.11	20yrARI	18	11.15	11.42	11.42	0.81	14.95	38.67	0.51
457.11	100yrARI	27.9	11.15	11.48	11.42	1.16	17.32	38.68	0.66
457.11	100yrARI10%CC	31	11.15	11.51	11.44	1.24	18.53	38.69	0.67
457.11	100yrARI15%CC	32.6	11.15	11.53	11.45	1.28	19.14	38.69	0.68
457.11	100yrARI30%CC	37.2	11.15	11.57	11.49	1.38	20.77	38.7	0.69
457.11	PMF	326	11.15	13.68	12.97	3.03	102.92	39.06	0.61
455	20yrARI	18	11.27	11.39	11.39	0.42	16.97	43.01	0.39
455	100yrARI	27.9	11.27	11.5	11.39	0.7	21.75	43.01	0.47
455	100yrARI10%CC	31	11.27	11.53	11.39	0.77	23.2	43.01	0.48
455	100yrARI15%CC	32.6	11.27	11.55	11.39	0.81	23.93	43.01	0.49
455	100yrARI30%CC	37.2	11.27	11.6	11.43	0.9	25.89	43.01	0.5
455	PMF	326	11.27	13.77	12.8	2.55	119.33	43.04	0.52
450	20yrARI	18	11.32	11.35	11.34	0.16	15.5	43.09	0.33
450	100yrARI	27.9	11.32	11.47	11.35	0.55	20.6	43.09	0.47
450	100yrARI10%CC	31	11.32	11.5	11.37	0.64	22.02	43.09	0.49
450	100yrARI15%CC	32.6	11.32	11.52	11.39	0.68	22.74	43.09	0.5
450	100yrARI30%CC	37.2	11.32	11.56	11.42	0.79	24.66	43.09	0.52
450	PMF	326	11.32	13.76	12.79	2.53	119.33	43.12	0.52
445	20yrARI	18	11.19	11.3	11.29	0.52	13.9	43.18	0.5
445	100yrARI	27.9	11.19	11.42	11.34	0.85	18.99	43.18	0.57
445	100yrARI10%CC	31	11.19	11.45	11.36	0.93	20.4	43.18	0.58
445	100yrARI15%CC	32.6	11.19	11.47	11.37	0.97	21.1	43.18	0.59
445	100yrARI30%CC	37.2	11.19	11.51	11.41	1.07	22.99	43.18	0.61
445	PMF	326	11.19	13.75	12.78	2.6	119.4	43.21	0.52
440	20yrARI	18	11.2	11.21	11.21	0.15	11.28	38.91	0.44
440	100yrARI	27.9	11.2	11.34	11.3	0.74	16.37	41.29	0.63
440	100yrARI10%CC	31	11.2	11.37	11.33	0.84	17.83	41.85	0.65
440	100yrARI15%CC	32.6	11.2	11.39	11.35	0.89	18.52	42.08	0.65
440	100yrARI30%CC	37.2	11.2	11.43	11.38	1.02	20.54	43.21	0.67
440	PMF	326	11.2	13.74	12.76	2.57	119.97	43.22	0.52
435	20yrARI	18	11.02	11.15	11.15	0.69	10.91	36.98	0.65
435	100yrARI	27.9	11.02	11.25	11.25	1.09	14.75	38.53	0.75
435	100yrARI10%CC	31	11.02	11.28	11.28	1.18	15.84	39.1	0.77
435	100yrARI15%CC	32.6	11.02	11.29	11.29	1.23	16.44	39.43	0.77
435	100yrARI30%CC	37.2	11.02	11.33	11.33	1.35	18.04	40.29	0.79
435	PMF	326	11.02	13.73	12.72	2.54	121.69	43.27	0.49
430	20yrARI	18	11.04	11.05	11.05	0.11	11	36.7	0.41
430	100yrARI	27.9	11.04	11.08	11.15	0.47	12.3	37.44	0.73
430	100yrARI10%CC	31	11.04	11.11	11.17	0.66	13.35	38.04	0.8
430	100yrARI15%CC	32.6	11.04	11.13	11.19	0.75	13.9	38.35	0.82
430	100yrARI30%CC	37.2	11.04	11.17	11.23	0.95	15.38	39.16	0.87
430	PMF	326	11.04	13.74	12.62	2.47	126.28	43.2	0.48

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
425	20yrARI	18	10.64	11.01	10.98	1.33	11.83	38.19	0.69
425	100yrARI	27.9	10.64	11.06	11.09	1.87	13.61	39.25	0.92
425	100yrARI10%CC	31	10.64	11.09	11.13	1.95	14.88	40.54	0.93
425	100yrARI15%CC	32.6	10.64	11.1	11.14	1.99	15.5	41.17	0.93
425	100yrARI30%CC	37.2	10.64	11.2	11.18	1.86	19.84	42.9	0.79
425	PMF	326	10.64	13.74	12.56	2.63	128.48	42.91	0.48
420	20yrARI	18	10.84	10.94	10.94	0.54	11.06	35.79	0.59
420	100yrARI	27.9	10.84	11.02	11.05	0.95	14.37	41.75	0.74
420	100yrARI10%CC	31	10.84	11.05	11.08	1.06	15.52	41.75	0.76
420	100yrARI15%CC	32.6	10.84	11.06	11.09	1.11	16.15	41.75	0.77
420	100yrARI30%CC	37.2	10.84	11.17	11.13	1.18	20.55	41.75	0.67
420	PMF	326	10.84	13.72	12.52	2.41	127.08	41.76	0.45
415	20yrARI	18	10.64	10.86	10.86	1.05	10.68	32.98	0.73
415	100yrARI	27.9	10.64	11	10.98	1.39	15.62	35.73	0.74
415	100yrARI10%CC	31	10.64	11.04	11.01	1.46	17	35.73	0.74
415	100yrARI15%CC	32.6	10.64	11.06	11.02	1.5	17.62	35.73	0.75
415	100yrARI30%CC	37.2	10.64	11.11	11.06	1.61	19.37	35.73	0.76
415	PMF	326	10.64	13.57	12.61	2.97	108.26	37.24	0.55
410	20yrARI	18	10.69	10.79	10.8	0.65	10.34	31.78	0.64
410	100yrARI	27.9	10.69	10.92	10.92	1.09	14.7	35.66	0.72
410	100yrARI10%CC	31	10.69	10.95	10.95	1.2	15.79	35.66	0.74
410	100yrARI15%CC	32.6	10.69	10.97	10.97	1.24	16.38	35.66	0.75
410	100yrARI30%CC	37.2	10.69	11.01	11.01	1.38	17.92	35.66	0.77
410	PMF	326	10.69	13.56	12.57	2.91	108.7	35.67	0.55
406.86	20yrARI	18	10.53	10.75	10.75	1.09	10.36	31.26	0.73
406.86	100yrARI	27.9	10.53	10.84	10.87	1.53	13.22	33.22	0.87
406.86	100yrARI10%CC	31	10.53	10.88	10.9	1.62	14.37	33.87	0.88
406.86	100yrARI15%CC	32.6	10.53	10.9	10.94	1.67	14.97	34.21	0.88
406.86	100yrARI30%CC	37.2	10.53	10.94	10.98	1.79	16.58	44.04	0.9
406.86	PMF	326	10.53	13.67	12.35	2.39	137.04	44.05	0.43
405	20yrARI	18	9.42	10.36	10.53	4.09	6.08	15.85	1.36
405	100yrARI	27.9	9.42	10.55	10.7	4.16	9.51	20.7	1.26
405	100yrARI10%CC	31	9.42	10.6	10.73	4.17	10.57	22.18	1.24
405	100yrARI15%CC	32.6	9.42	10.62	10.75	4.24	10.97	22.62	1.25
405	100yrARI30%CC	37.2	9.42	11.07	10.8	1.93	29.88	47.17	0.48
405	PMF	326	9.42	13.71	12.14	2.51	154.83	47.18	0.39
400	20yrARI	18	3.97	8.2	5.7	1.48	15.98	7.04	0.23
400	100yrARI	27.9	3.97	10.15	6.28	1.22	41.63	24.62	0.16
400	100yrARI10%CC	31	3.97	10.58	6.47	1.14	58.78	54.13	0.14
400	100yrARI15%CC	32.6	3.97	10.81	6.56	1.07	71.92	58.43	0.13
400	100yrARI30%CC	37.2	3.97	11.1	6.83	1.05	89.54	62.27	0.13
400	PMF	326	3.97	13.75	11.9	3.16	254.76	62.28	0.32

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
395	20yrARI	41.3	3.87	7.5	7.05	3.98	13.99	7.98	0.68
395	100yrARI	51.8	3.87	10.17	7.58	1.16	134.58	93.67	0.15
395	100yrARI10%CC	57.5	3.87	10.59	7.77	0.99	182.99	127.55	0.12
395	100yrARI15%CC	60.5	3.87	10.83	7.87	0.9	213.63	137.85	0.11
395	100yrARI30%CC	69.2	3.87	11.11	8.13	0.87	254.51	146.83	0.1
395	PMF	351.9	3.87	13.86	10.61	1.33	767.4	199.56	0.14
390	20yrARI	41.3	3.81	7.63	6.92	3.5	16.92	9.66	0.58
390	100yrARI	51.8	3.81	10.17	7.36	1.1	143.38	102.51	0.14
390	100yrARI10%CC	57.5	3.81	10.6	7.6	0.94	195.25	132.12	0.12
390	100yrARI15%CC	60.5	3.81	10.83	7.69	0.86	226.59	139.76	0.1
390	100yrARI30%CC	69.2	3.81	11.11	7.99	0.83	268.46	150.54	0.1
390	PMF	351.9	3.81	13.86	10.55	1.31	793.19	203.11	0.13
380	20yrARI	41.3	3.67	7.64	6.91	3.44	18.52	10.63	0.57
380	100yrARI	51.8	3.67	10.17	7.34	1.09	153.05	132.27	0.14
380	100yrARI10%CC	57.5	3.67	10.6	7.57	0.91	212.12	143.15	0.11
380	100yrARI15%CC	60.5	3.67	10.83	7.66	0.82	247.23	157.78	0.1
380	100yrARI30%CC	69.2	3.67	11.11	7.92	0.79	293	163.18	0.09
380	PMF	351.9	3.67	13.86	10.52	1.22	853.8	215.84	0.12
375	20yrARI	41.3	3.58	7.71	6.7	3.08	20.64	11.16	0.49
375	100yrARI	51.8	3.58	10.17	7.13	1.1	153.12	134.52	0.14
375	100yrARI10%CC	57.5	3.58	10.6	7.36	0.91	213.2	148.43	0.11
375	100yrARI15%CC	60.5	3.58	10.83	7.46	0.83	249.02	158.74	0.1
375	100yrARI30%CC	69.2	3.58	11.11	7.71	0.79	295.34	166.96	0.09
375	PMF	351.9	3.58	13.86	10.55	1.21	865.5	216.56	0.12
368.38	20yrARI	41.3	3.47	7.73	6.64	2.96	21.53	11.22	0.47
368.38	100yrARI	51.8	3.47	10.16	7.09	1.17	134.96	95.66	0.15
368.38	100yrARI10%CC	57.5	3.47	10.59	7.28	0.93	213.58	156.27	0.11
368.38	100yrARI15%CC	60.5	3.47	10.83	7.37	0.84	251.19	165.83	0.1
368.38	100yrARI30%CC	69.2	3.47	11.11	7.64	0.81	299.05	169.62	0.09
368.38	PMF	351.9	3.47	13.86	10.6	1.24	854.63	205.85	0.12
355.18	20yrARI	41.3	3.24	7.81	6.3	2.45	27.39	13.46	0.37
355.18	100yrARI	51.8	3.24	10.15	6.7	1.18	134.14	111	0.14
355.18	100yrARI10%CC	57.5	3.24	10.59	6.89	0.94	217.65	169.56	0.11
355.18	100yrARI15%CC	60.5	3.24	10.82	6.98	0.85	258.27	178.62	0.1
355.18	100yrARI30%CC	69.2	3.24	11.11	7.25	0.81	309.92	182.64	0.09
355.18	PMF	351.9	3.24	13.85	10.67	1.27	842.86	195.23	0.13
350	20yrARI	41.3	3.18	7.84	5.98	2.16	31.75	15.11	0.33
350	100yrARI	51.8	3.18	10.14	6.4	1.22	114.29	75.83	0.15
350	100yrARI10%CC	57.5	3.18	10.58	6.59	1.03	184.17	136.64	0.12
350	100yrARI15%CC	60.5	3.18	10.82	6.69	0.95	216.92	141.75	0.11
350	100yrARI30%CC	69.2	3.18	11.1	7.02	0.93	257.51	141.75	0.11
350	PMF	351.9	3.18	13.83	10.8	1.69	644.77	141.75	0.17

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
345	20yrARI	41.3	3.12	7.86	5.97	2.04	34.7	16.59	0.31
345	100yrARI	51.8	3.12	10.15	6.35	1.18	112.45	75.79	0.14
345	100yrARI10%CC	57.5	3.12	10.58	6.54	1.1	145.22	76.91	0.13
345	100yrARI15%CC	60.5	3.12	10.82	6.63	0.95	214.13	142.38	0.11
345	100yrARI30%CC	69.2	3.12	11.1	6.9	0.94	254.86	142.38	0.11
345	PMF	351.9	3.12	13.83	10.77	1.72	643.61	142.38	0.17
334.53	20yrARI	61.6	2.99	7.84	5.82	2.28	49.04	18.98	0.34
334.53	100yrARI	86.5	2.99	10.09	6.39	1.77	101.31	30.57	0.22
334.53	100yrARI10%CC	96	2.99	10.51	6.58	1.78	117.13	50.75	0.21
334.53	100yrARI15%CC	101.1	2.99	10.77	6.7	1.61	178.61	131.13	0.19
334.53	100yrARI30%CC	115.5	2.99	11.05	6.95	1.64	218.41	144.82	0.19
334.53	PMF	351.9	2.99	13.82	9.72	1.85	619.15	144.82	0.18
321.93	20yrARI	61.6	2.86	7.75	6.29	2.62	41.48	17.61	0.39
321.93	100yrARI	86.5	2.86	10.06	6.85	1.93	92.01	26.1	0.23
321.93	100yrARI10%CC	96	2.86	10.49	7.03	1.94	104.55	36.29	0.23
321.93	100yrARI15%CC	101.1	2.86	10.72	7.12	1.94	113.85	44.34	0.22
321.93	100yrARI30%CC	115.5	2.86	11.04	7.38	1.79	193.56	129.26	0.2
321.93	PMF	351.9	2.86	13.81	10.07	1.97	581.77	140.22	0.19
315	20yrARI	61.6	2.77	7.66	6.28	2.9	36.86	16.88	0.43
315	100yrARI	86.5	2.77	10.04	6.93	2.03	88.21	25.67	0.24
315	100yrARI10%CC	96	2.77	10.47	7.15	2.04	100.14	33.93	0.24
315	100yrARI15%CC	101.1	2.77	10.7	7.26	2.03	108.93	41.99	0.23
315	100yrARI30%CC	115.5	2.77	11.02	7.64	1.87	184.82	116.52	0.21
315	PMF	351.9	2.77	13.8	10.36	2.05	563.79	137.64	0.2
310	20yrARI	61.6	2.71	7.71	6.16	2.62	41.14	17.09	0.39
310	100yrARI	86.5	2.71	10.05	6.74	1.97	90.74	25.27	0.24
310	100yrARI10%CC	96	2.71	10.47	6.93	1.99	102.29	32.77	0.23
310	100yrARI15%CC	101.1	2.71	10.7	7.03	1.99	110.79	40.85	0.23
310	100yrARI30%CC	115.5	2.71	11.02	7.3	1.84	186.9	114	0.21
310	PMF	351.9	2.71	13.8	10.12	2.07	558.33	135.84	0.2
305	20yrARI	61.6	2.65	7.69	6.12	2.68	40.24	17.1	0.39
305	100yrARI	86.5	2.65	10.05	6.82	1.97	90.4	25.37	0.24
305	100yrARI10%CC	96	2.65	10.47	7.01	1.99	101.85	31.94	0.23
305	100yrARI15%CC	101.1	2.65	10.7	7.11	1.99	110.16	40.04	0.23
305	100yrARI30%CC	115.5	2.65	11.03	7.37	1.81	189.67	111.24	0.2
305	PMF	351.9	2.65	13.8	10.17	2.08	552.9	133.76	0.2
300	20yrARI	61.6	2.59	7.69	6.09	2.64	41.31	17.38	0.38
300	100yrARI	86.5	2.59	10.05	6.75	1.96	91.87	25.51	0.23
300	100yrARI10%CC	96	2.59	10.47	6.96	1.97	103.27	31.12	0.23
300	100yrARI15%CC	101.1	2.59	10.73	7.06	1.75	162.38	98.55	0.2
300	100yrARI30%CC	115.5	2.59	11.03	7.33	1.78	193.54	108.51	0.2
300	PMF	351.9	2.59	13.8	10.72	2.08	548.67	131.87	0.2

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
290	20yrARI	61.6	2.49	7.72	5.9	2.45	45.62	18.26	0.35
290	100yrARI	86.5	2.49	10.06	6.51	1.85	98.03	26.53	0.22
290	100yrARI10%CC	96	2.49	10.48	6.72	1.86	109.69	30.62	0.21
290	100yrARI15%CC	101.1	2.49	10.73	6.82	1.64	171.49	95.44	0.19
290	100yrARI30%CC	115.5	2.49	11.03	7.14	1.68	201.6	105.4	0.19
290	PMF	351.9	2.49	13.8	9.98	2.07	544.23	130.13	0.2
285	20yrARI	61.6	2.44	7.71	5.88	2.47	45.23	18.51	0.35
285	100yrARI	86.5	2.44	10.06	6.51	1.82	98.63	26.95	0.21
285	100yrARI10%CC	96	2.44	10.48	6.75	1.83	110.41	30.46	0.21
285	100yrARI15%CC	101.1	2.44	10.74	6.85	1.61	174.91	92.93	0.18
285	100yrARI30%CC	115.5	2.44	11.04	7.12	1.65	204.21	102.78	0.18
285	PMF	351.9	2.44	13.8	9.9	2.08	536.32	128.22	0.2
280	20yrARI	61.6	2.39	7.68	5.88	2.54	42.29	18.39	0.36
280	100yrARI	86.5	2.39	10.03	6.56	1.98	79.78	26.95	0.23
280	100yrARI10%CC	96	2.39	10.44	6.78	2.03	86.44	28.46	0.23
280	100yrARI15%CC	101.1	2.39	10.66	6.89	2.06	89.86	87.39	0.23
280	100yrARI30%CC	115.5	2.39	10.93	7.21	2.24	94.2	96.33	0.25
280	PMF	351.9	2.39	13.79	9.95	2.16	520.28	126.27	0.21
275	20yrARI	61.6	2.35	7.59	5.42	2.63	28.14	11.25	0.38
275	100yrARI	86.5	2.35	9.9	6.14	2.32	51.16	24.84	0.28
275	100yrARI10%CC	96	2.35	10.3	6.42	2.41	55.19	76.16	0.28
275	100yrARI15%CC	101.1	2.35	10.51	6.54	2.45	57.26	77.55	0.28
275	100yrARI30%CC	115.5	2.35	10.75	6.87	2.7	59.62	85.47	0.31
275	PMF	351.9	2.35	13.73	10.68	2.47	474.25	124.17	0.24
270	20yrARI	61.6	2.3	7.45	5.29	3.05	23.46	7.08	0.43
270	100yrARI	86.5	2.3	9.72	6.06	2.9	37.09	54.4	0.34
270	100yrARI10%CC	96	2.3	10.33	6.34	2.37	103.43	68.76	0.27
270	100yrARI15%CC	101.1	2.3	10.56	6.48	2.29	119.32	70.74	0.25
270	100yrARI30%CC	115.5	2.3	10.84	6.86	2.37	140.15	80.28	0.26
270	PMF	351.9	2.3	13.7	11.4	2.82	426.64	122.73	0.27
250		Culvert							
230	20yrARI	65.6	1.91	4.67	4.98	5.44	13.01	8.38	1.08
230	100yrARI	95.4	1.91	5.79	5.79	5.37	23.34	10	0.89
230	100yrARI10%CC	105.9	1.91	6	6	5.55	25.46	10.31	0.9
230	100yrARI15%CC	111.4	1.91	6.11	6.11	5.64	26.57	10.46	0.9
230	100yrARI30%CC	127.4	1.91	6.41	6.41	5.87	29.81	10.91	0.9
230	PMF	434.4	1.91	10.86	10.86	7.39	113.23	45.47	0.8
220	20yrARI	65.6	1.8	4.63	5.18	5.97	16	15.23	1.18
220	100yrARI	95.4	1.8	5.04	5.68	6.84	22.54	16.92	1.25
220	100yrARI10%CC	105.9	1.8	5.14	5.83	7.21	24.17	17.31	1.3
220	100yrARI15%CC	111.4	1.8	5.18	5.91	7.39	24.98	17.51	1.32
220	100yrARI30%CC	127.4	1.8	5.31	6.12	7.89	27.27	18.05	1.38

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
220	PMF	434.4	1.8	7	8.64	13.1	63.08	23.79	1.87
215	20yrARI	65.6	1.77	4.53	5.1	6.14	16.35	17.48	1.22
215	100yrARI	95.4	1.77	4.88	5.57	7.11	22.74	19.03	1.33
215	100yrARI10%CC	105.9	1.77	4.97	5.71	7.49	24.38	19.4	1.38
215	100yrARI15%CC	111.4	1.77	5.01	5.78	7.68	25.22	20.2	1.4
215	100yrARI30%CC	127.4	1.77	5.13	5.96	8.19	27.6	20.74	1.47
215	PMF	434.4	1.77	6.6	8.25	13.74	62.85	26.18	2.03
210	20yrARI	65.6	1.73	4.54	5.1	6.13	17.35	18.04	1.19
210	100yrARI	95.4	1.73	4.87	5.56	7.16	23.49	18.97	1.31
210	100yrARI10%CC	105.9	1.73	4.96	5.69	7.55	25.07	19.2	1.36
210	100yrARI15%CC	111.4	1.73	5	5.75	7.75	25.87	19.33	1.39
210	100yrARI30%CC	127.4	1.73	5.11	5.94	8.28	28.39	22.81	1.46
210	PMF	434.4	1.73	6.49	8.12	14.09	63.45	27.27	2.08
205	20yrARI	65.6	1.67	4.44	5.01	6.24	17.19	19.63	1.22
205	100yrARI	95.4	1.67	4.75	5.46	7.3	23.52	20.67	1.35
205	100yrARI10%CC	105.9	1.67	4.83	5.59	7.69	25.16	20.93	1.4
205	100yrARI15%CC	111.4	1.67	4.87	5.65	7.89	26	21.06	1.43
205	100yrARI30%CC	127.4	1.67	4.98	5.82	8.42	28.33	21.42	1.5
205	PMF	434.4	1.67	6.28	7.9	14.33	63.9	29.38	2.15
200	20yrARI	65.6	1.62	4.31	4.9	6.33	16.57	21.07	1.27
200	100yrARI	95.4	1.62	4.62	5.35	7.37	23.3	22.31	1.39
200	100yrARI10%CC	105.9	1.62	4.69	5.47	7.76	25.04	22.62	1.45
200	100yrARI15%CC	111.4	1.62	4.73	5.53	7.95	25.93	22.77	1.47
200	100yrARI30%CC	127.4	1.62	4.84	5.7	8.48	28.38	23.2	1.54
200	PMF	434.4	1.62	6.12	7.73	14.33	64.95	31.37	2.19
195	20yrARI	65.6	1.56	4.24	4.85	6.39	16.61	22.9	1.28
195	100yrARI	95.4	1.56	4.53	5.27	7.46	23.56	24.08	1.41
195	100yrARI10%CC	105.9	1.56	4.61	5.39	7.85	25.36	24.37	1.47
195	100yrARI15%CC	111.4	1.56	4.65	5.45	8.04	26.26	24.52	1.5
195	100yrARI30%CC	127.4	1.56	4.75	5.61	8.58	28.77	24.92	1.57
195	PMF	434.4	1.56	8.48	7.58	6.16	154.26	38.42	0.75
190	20yrARI	65.6	1.5	4.17	4.79	6.44	16.49	24.3	1.29
190	100yrARI	95.4	1.5	5.38	5.19	4.13	49.67	31.64	0.68
190	100yrARI10%CC	105.9	1.5	5.58	5.31	4.11	56.09	32.58	0.66
190	100yrARI15%CC	111.4	1.5	5.66	5.37	4.14	58.91	32.99	0.66
190	100yrARI30%CC	127.4	1.5	5.89	5.52	4.22	66.61	34.07	0.65
190	PMF	434.4	1.5	8.57	7.45	5.73	167.31	40.96	0.69
185	20yrARI	65.6	1.44	4.11	4.74	6.48	16.27	24.82	1.3
185	100yrARI	95.4	1.44	5.43	5.13	3.87	53.92	32.84	0.63
185	100yrARI10%CC	105.9	1.44	5.62	5.25	3.87	60.35	33.66	0.61
185	100yrARI15%CC	111.4	1.44	5.7	5.31	3.9	63.22	34.03	0.61
185	100yrARI30%CC	127.4	1.44	5.93	5.46	3.99	71.07	35	0.61

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
185	PMF	434.4	1.44	8.6	7.35	5.51	174.73	42.35	0.66
180	20yrARI	65.6	1.38	4.06	4.7	6.51	16.14	24.04	1.3
180	100yrARI	95.4	1.38	5.43	5.1	3.81	55.48	33.64	0.61
180	100yrARI10%CC	105.9	1.38	5.62	5.23	3.82	62	34.31	0.6
180	100yrARI15%CC	111.4	1.38	5.71	5.28	3.85	64.91	34.61	0.6
180	100yrARI30%CC	127.4	1.38	5.93	5.44	3.95	72.83	35.41	0.6
180	PMF	434.4	1.38	8.6	7.33	5.51	177.11	42.58	0.66
175	20yrARI	65.6	1.33	3.96	4.61	6.58	15.02	22.18	1.35
175	100yrARI	95.4	1.33	5.5	4.99	3.36	60.97	35.63	0.54
175	100yrARI10%CC	105.9	1.33	5.69	5.11	3.38	67.69	36.37	0.53
175	100yrARI15%CC	111.4	1.33	5.77	5.17	3.41	70.74	36.7	0.53
175	100yrARI30%CC	127.4	1.33	6	5.32	3.5	79.1	37.6	0.53
175	PMF	434.4	1.33	8.69	7.13	4.88	190.75	45.17	0.58
170	20yrARI	65.6	1.26	3.89	4.57	6.57	14.79	20.3	1.36
170	100yrARI	95.4	1.26	5.46	4.96	3.46	61.96	36.01	0.55
170	100yrARI10%CC	105.9	1.26	5.64	5.09	3.5	68.68	36.71	0.55
170	100yrARI15%CC	111.4	1.26	5.73	5.15	3.53	71.7	37.02	0.55
170	100yrARI30%CC	127.4	1.26	5.95	5.31	3.65	79.97	37.86	0.55
170	PMF	434.4	1.26	8.6	7.21	5.22	192.29	46.67	0.63
165	20yrARI	65.6	1.19	4.79	4.49	3.28	40.85	29.78	0.57
165	100yrARI	95.4	1.19	5.48	4.89	3.27	63.93	36.18	0.52
165	100yrARI10%CC	105.9	1.19	5.66	5.01	3.33	70.57	36.98	0.52
165	100yrARI15%CC	111.4	1.19	5.74	5.07	3.37	73.58	37.33	0.52
165	100yrARI30%CC	127.4	1.19	5.96	5.24	3.5	81.84	38.29	0.53
165	PMF	434.4	1.19	8.6	7.17	5.08	195.73	47.54	0.61
160	20yrARI	65.6	1.15	4.79	4.47	3.26	41.23	29.42	0.57
160	100yrARI	95.4	1.15	5.48	4.87	3.27	64.15	36.23	0.52
160	100yrARI10%CC	105.9	1.15	5.66	4.98	3.32	70.8	37.12	0.51
160	100yrARI15%CC	111.4	1.15	5.74	5.05	3.36	73.83	37.52	0.52
160	100yrARI30%CC	127.4	1.15	5.96	5.22	3.48	82.17	38.59	0.52
160	PMF	434.4	1.15	8.62	7.15	5.02	198.22	48.5	0.6
155	20yrARI	65.6	1.11	4.8	4.47	3.22	41.42	29.2	0.55
155	100yrARI	95.4	1.11	5.49	4.85	3.19	64.44	36.25	0.5
155	100yrARI10%CC	105.9	1.11	5.67	4.97	3.23	71.15	37.2	0.49
155	100yrARI15%CC	111.4	1.11	5.76	5.03	3.27	74.21	37.62	0.5
155	100yrARI30%CC	127.4	1.11	5.98	5.2	3.38	82.65	38.77	0.5
155	PMF	434.4	1.11	8.66	7.07	4.77	201.68	49.87	0.56
150	20yrARI	65.6	1.05	4.8	4.44	3.19	41.35	28.68	0.54
150	100yrARI	95.4	1.05	5.48	4.83	3.2	63.88	36.07	0.5
150	100yrARI10%CC	105.9	1.05	5.66	4.95	3.25	70.55	37.07	0.49
150	100yrARI15%CC	111.4	1.05	5.74	5.02	3.28	73.58	37.52	0.49
150	100yrARI30%CC	127.4	1.05	5.96	5.19	3.4	81.99	38.71	0.5

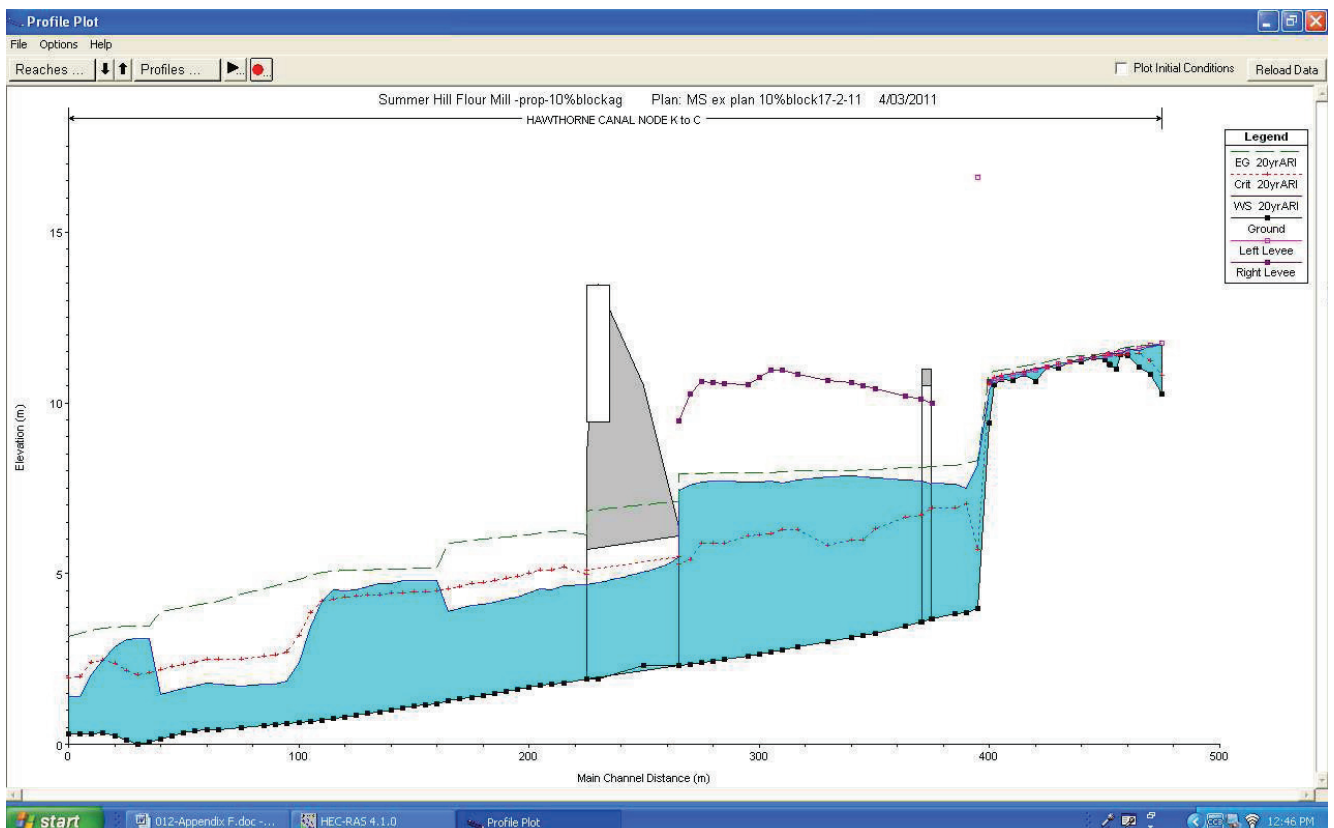
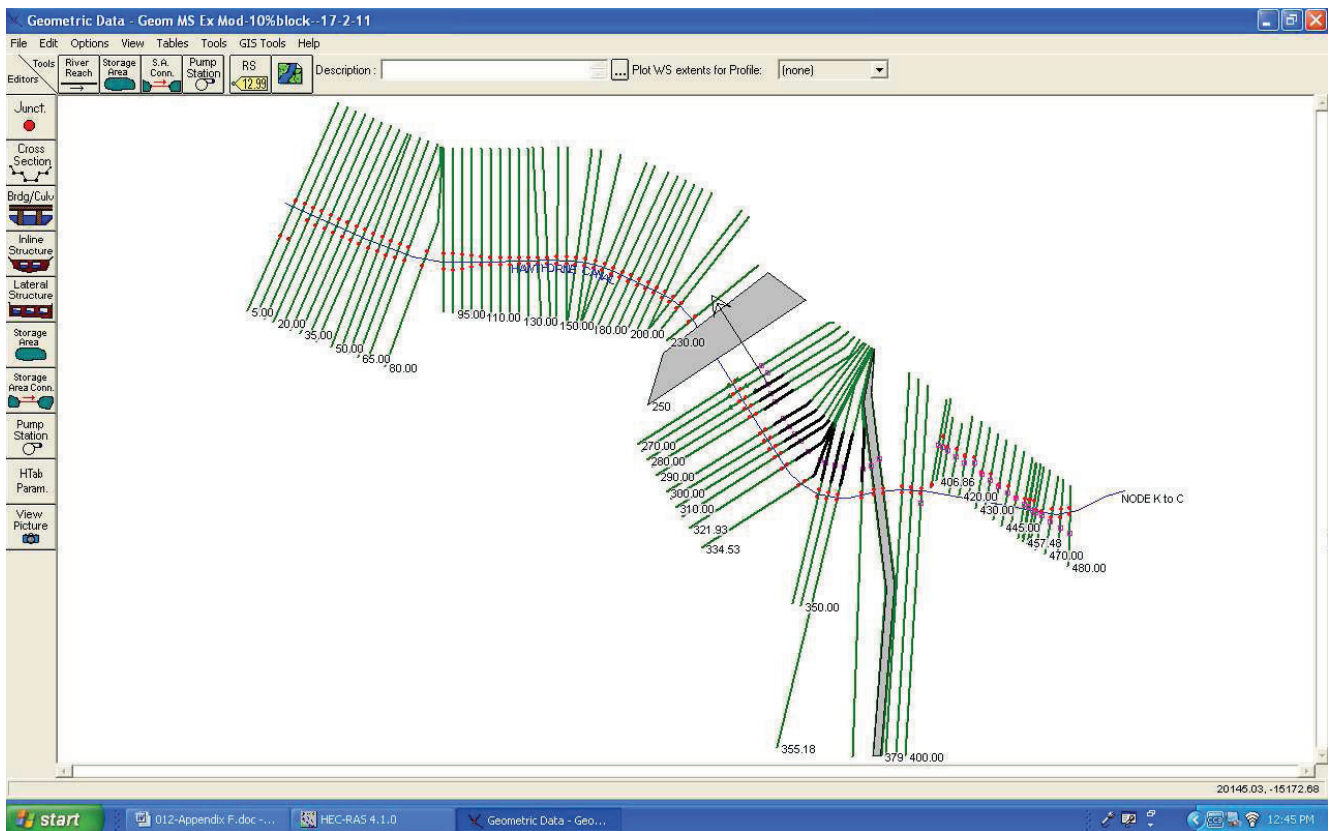
River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
150	PMF	434.4	1.05	8.65	7.09	4.79	201.8	50.54	0.56
145	20yrARI	65.6	1	4.72	4.43	3.43	38.75	27.77	0.58
145	100yrARI	95.4	1	5.42	4.85	3.42	61.27	35.77	0.53
145	100yrARI10%CC	105.9	1	5.6	4.97	3.47	67.95	36.79	0.52
145	100yrARI15%CC	111.4	1	5.68	5.05	3.51	70.96	37.24	0.53
145	100yrARI30%CC	127.4	1	5.9	5.23	3.64	79.24	38.45	0.53
145	PMF	434.4	1	8.58	7.18	5.08	199.05	50.76	0.59
140	20yrARI	65.6	0.95	4.71	4.39	3.39	37.68	26.9	0.57
140	100yrARI	95.4	0.95	5.41	4.83	3.41	59.63	35.53	0.53
140	100yrARI10%CC	105.9	0.95	5.59	4.96	3.46	66.27	36.57	0.52
140	100yrARI15%CC	111.4	0.95	5.67	5.04	3.5	69.26	37.03	0.52
140	100yrARI30%CC	127.4	0.95	5.89	5.22	3.62	77.49	38.26	0.53
140	PMF	434.4	0.95	8.57	7.19	5.04	196	50.02	0.59
135	20yrARI	65.6	0.9	4.62	4.38	3.63	34.12	25.48	0.62
135	100yrARI	95.4	0.9	5.34	4.84	3.6	55.95	34.89	0.56
135	100yrARI10%CC	105.9	0.9	5.53	4.99	3.64	62.72	36	0.55
135	100yrARI15%CC	111.4	0.9	5.61	5.08	3.68	65.68	36.47	0.55
135	100yrARI30%CC	127.4	0.9	5.83	5.27	3.8	73.87	37.67	0.56
135	PMF	434.4	0.9	8.51	7.25	5.25	187.98	47.65	0.62
130	20yrARI	65.6	0.85	4.51	4.35	3.86	30.71	23.81	0.66
130	100yrARI	95.4	0.85	5.27	4.85	3.77	52.58	34.43	0.59
130	100yrARI10%CC	105.9	0.85	5.47	5.02	3.8	59.5	35.63	0.58
130	100yrARI15%CC	111.4	0.85	5.55	5.1	3.84	62.47	36.13	0.58
130	100yrARI30%CC	127.4	0.85	5.78	5.3	3.95	70.65	37.24	0.58
130	PMF	434.4	0.85	8.46	7.29	5.4	183.56	46.76	0.63
125	20yrARI	65.6	0.8	4.51	4.31	3.84	29.98	23.15	0.66
125	100yrARI	95.4	0.8	5.26	4.84	3.77	51.46	34.37	0.58
125	100yrARI10%CC	105.9	0.8	5.46	5.01	3.79	58.47	35.62	0.57
125	100yrARI15%CC	111.4	0.8	5.55	5.1	3.83	61.48	36.01	0.57
125	100yrARI30%CC	127.4	0.8	5.77	5.3	3.94	69.69	37.05	0.58
125	PMF	434.4	0.8	8.46	7.29	5.32	183.22	47.14	0.62
120	20yrARI	65.6	0.76	4.53	4.24	3.73	30.89	22.97	0.63
120	100yrARI	95.4	0.76	5.26	4.79	3.75	51.83	34.69	0.58
120	100yrARI10%CC	105.9	0.76	5.46	4.97	3.77	58.8	35.62	0.57
120	100yrARI15%CC	111.4	0.76	5.54	5.06	3.81	61.8	35.98	0.57
120	100yrARI30%CC	127.4	0.76	5.76	5.27	3.94	69.84	36.94	0.57
120	PMF	434.4	0.76	8.44	7.3	5.37	183.4	48.28	0.63
115	20yrARI	65.6	0.71	4.18	4.18	4.5	24.45	18.44	0.78
115	100yrARI	95.4	0.71	4.79	4.79	4.88	37.79	25.41	0.78
115	100yrARI10%CC	105.9	0.71	4.98	4.98	4.96	42.78	27.56	0.78
115	100yrARI15%CC	111.4	0.71	5.09	5.09	4.95	46.43	34.12	0.76
115	100yrARI30%CC	127.4	0.71	5.32	5.32	5.09	54.22	35.18	0.77

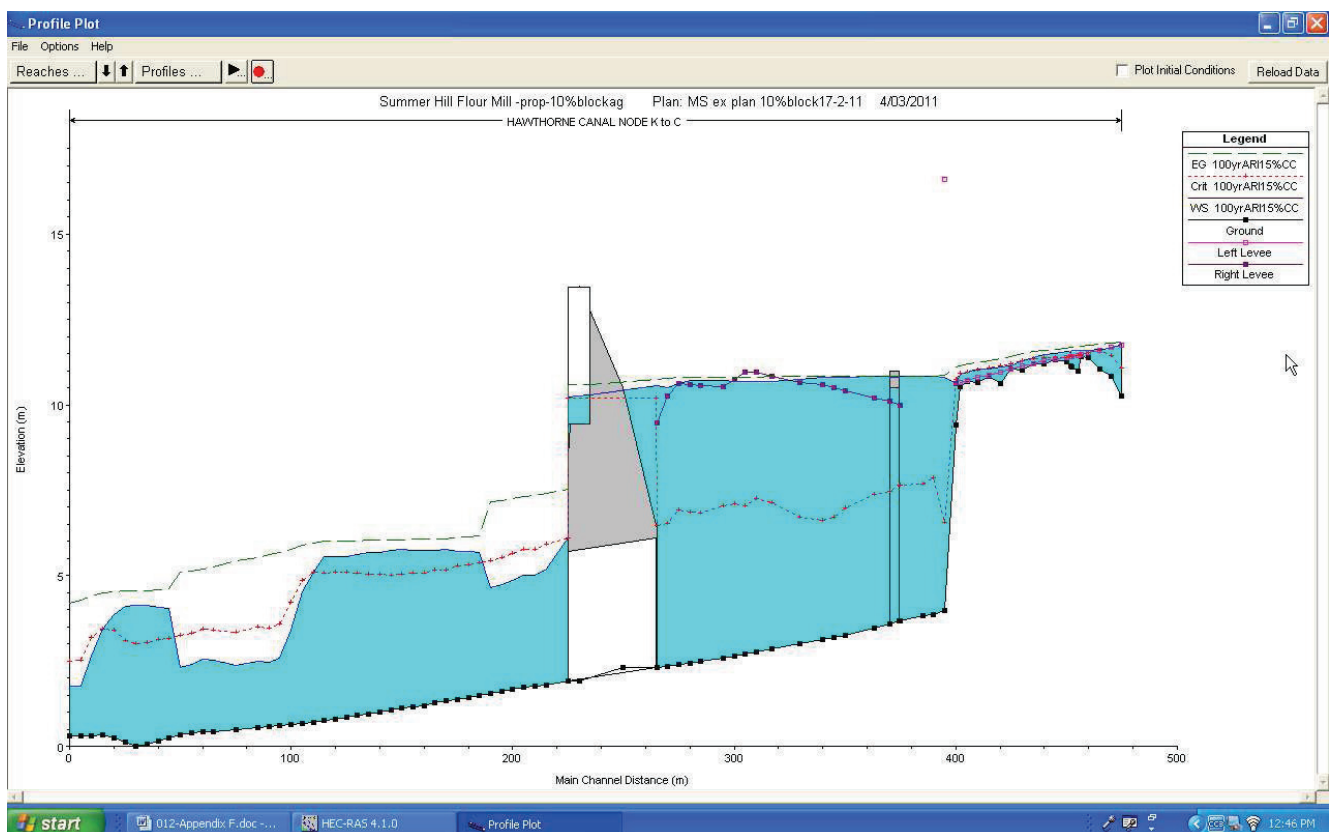
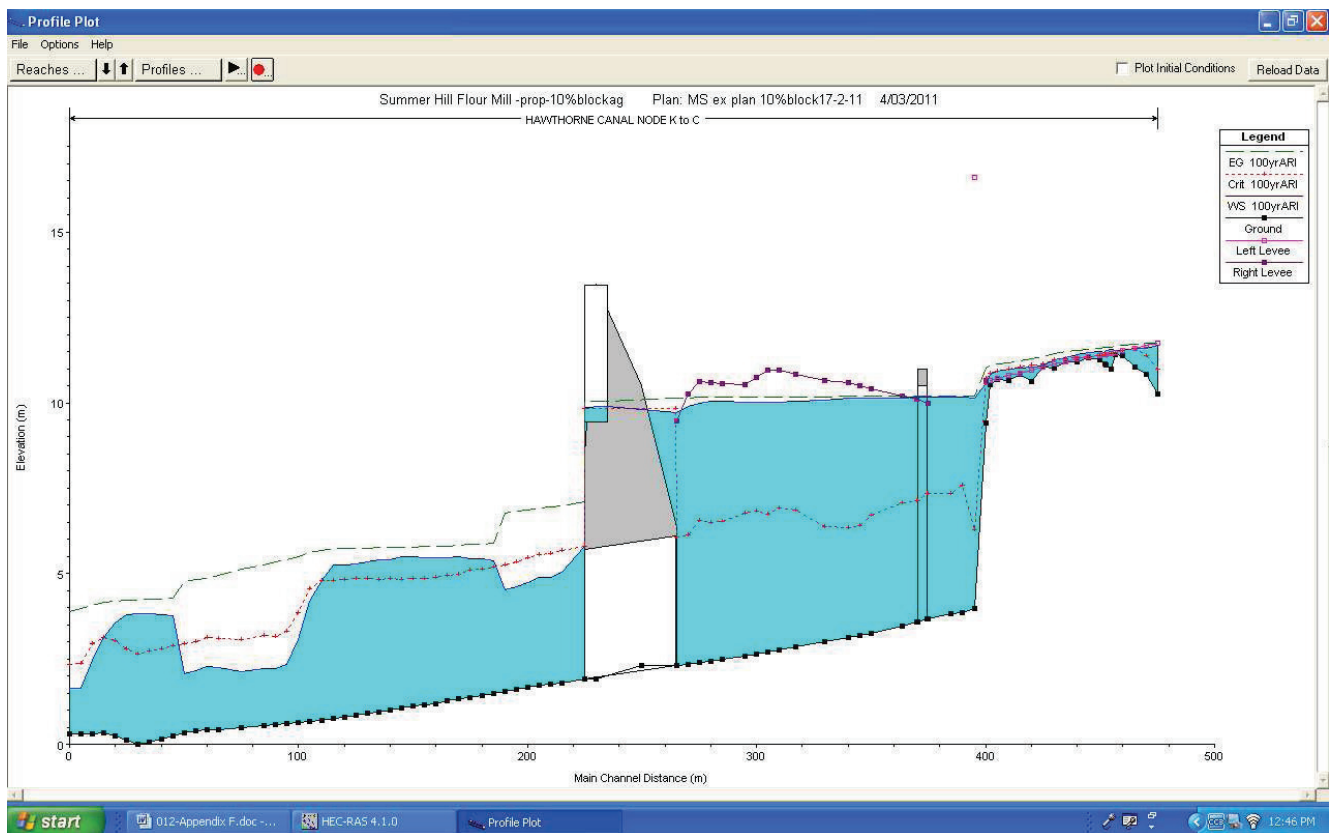
River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
115	PMF	434.4	0.71	8.24	7.46	6.07	178.2	52.36	0.71
110	20yrARI	65.6	0.66	3.42	3.85	5.64	15	11.84	1.15
110	100yrARI	95.4	0.66	4.19	4.56	5.69	26.36	18.18	1.01
110	100yrARI10%CC	105.9	0.66	4.4	4.75	5.73	30.44	20.55	0.98
110	100yrARI15%CC	111.4	0.66	4.52	4.85	5.72	32.88	21.84	0.97
110	100yrARI30%CC	127.4	0.66	4.83	5.13	5.69	40.38	25.43	0.92
110	PMF	434.4	0.66	8.13	7.47	6.01	178.97	54.09	0.72
105	20yrARI	65.6	0.63	2.39	3.18	6.92	9.48	6.12	1.77
105	100yrARI	95.4	0.63	3.06	3.86	6.95	14.77	10.02	1.49
105	100yrARI10%CC	105.9	0.63	3.29	4.13	6.92	17.22	11.53	1.41
105	100yrARI15%CC	111.4	0.63	3.41	4.22	6.9	18.66	12.33	1.37
105	100yrARI30%CC	127.4	0.63	3.75	4.51	6.82	23.25	14.59	1.28
105	PMF	434.4	0.63	8.09	7.3	5.52	181.52	54.22	0.65
100	20yrARI	65.6	0.6	1.86	2.69	7.5	8.74	7.44	2.21
100	100yrARI	95.4	0.6	2.33	3.3	7.75	12.3	7.74	1.96
100	100yrARI10%CC	105.9	0.6	2.49	3.48	7.78	13.62	8.05	1.88
100	100yrARI15%CC	111.4	0.6	2.58	3.58	7.78	14.37	8.57	1.83
100	100yrARI30%CC	127.4	0.6	2.85	3.84	7.76	16.84	10.11	1.71
100	PMF	434.4	0.6	8.18	6.93	4.81	192.54	55.42	0.56
95	20yrARI	65.6	0.58	1.77	2.6	7.53	8.71	7.72	2.26
95	100yrARI	95.4	0.58	2.21	3.16	7.83	12.19	8.01	2.02
95	100yrARI10%CC	105.9	0.58	2.37	3.35	7.87	13.46	8.12	1.95
95	100yrARI15%CC	111.4	0.58	2.45	3.46	7.88	14.15	8.26	1.91
95	100yrARI30%CC	127.4	0.58	2.7	3.73	7.88	16.26	8.87	1.8
95	PMF	434.4	0.58	8.22	6.83	4.6	196.17	56.3	0.54
90	20yrARI	65.6	0.55	1.77	2.58	7.39	8.87	7.62	2.19
90	100yrARI	95.4	0.55	2.22	3.18	7.7	12.39	7.86	1.96
90	100yrARI10%CC	105.9	0.55	2.39	3.39	7.74	13.68	8	1.88
90	100yrARI15%CC	111.4	0.55	2.47	3.5	7.75	14.4	8.25	1.84
90	100yrARI30%CC	127.4	0.55	2.73	3.79	7.74	16.64	8.98	1.72
90	PMF	434.4	0.55	8.25	6.8	4.52	203.95	58.2	0.52
80	20yrARI	65.6	0.49	1.71	2.49	7.26	9.04	7.84	2.16
80	100yrARI	95.4	0.49	2.13	3.05	7.67	12.44	8.11	1.98
80	100yrARI10%CC	105.9	0.49	2.28	3.24	7.75	13.67	8.22	1.92
80	100yrARI15%CC	111.4	0.49	2.37	3.33	7.76	14.36	8.55	1.87
80	100yrARI30%CC	127.4	0.49	2.61	3.59	7.79	16.56	9.63	1.76
80	PMF	434.4	0.49	6.93	6.93	6.74	111.21	36.59	0.86
70	20yrARI	65.6	0.44	1.76	2.49	6.93	9.47	7.39	1.95
70	100yrARI	95.4	0.44	2.24	3.1	7.28	13.11	7.64	1.76
70	100yrARI10%CC	105.9	0.44	2.42	3.3	7.33	14.55	8.53	1.69
70	100yrARI15%CC	111.4	0.44	2.52	3.4	7.32	15.42	9.03	1.64
70	100yrARI30%CC	127.4	0.44	2.81	3.7	7.31	18.21	10.46	1.54

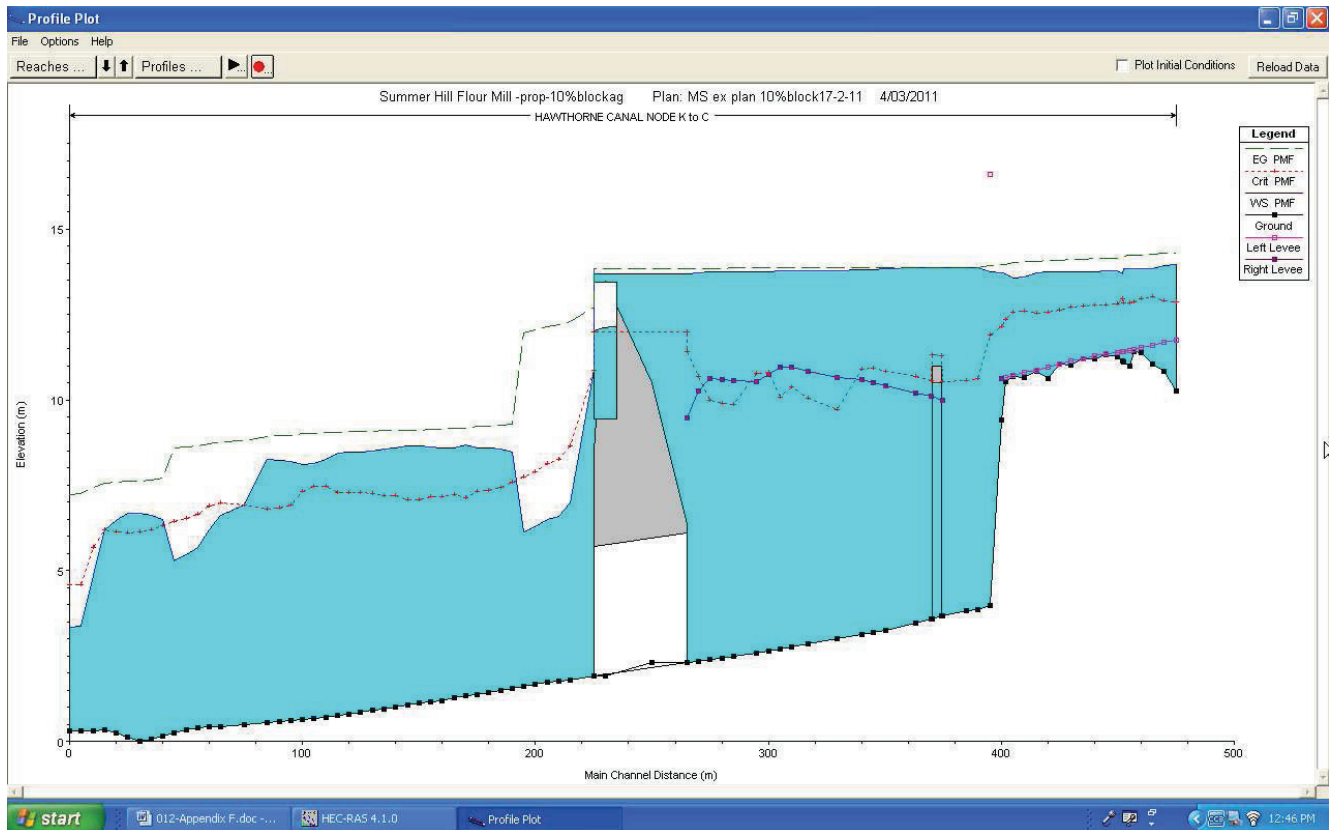
River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
70	PMF	434.4	0.44	6.63	7	7.3	106.34	38.91	0.94
65	20yrARI	65.6	0.43	1.78	2.49	6.76	9.7	7.33	1.88
65	100yrARI	95.4	0.43	2.28	3.11	7.12	13.42	7.95	1.69
65	100yrARI10%CC	105.9	0.43	2.47	3.33	7.17	14.96	8.96	1.62
65	100yrARI15%CC	111.4	0.43	2.56	3.43	7.17	15.88	9.5	1.59
65	100yrARI30%CC	127.4	0.43	2.85	3.71	7.17	18.85	11.07	1.48
65	PMF	434.4	0.43	6.18	6.9	7.96	98.58	40.95	1.06
60	20yrARI	65.6	0.39	1.69	2.41	6.81	9.63	7.74	1.95
60	100yrARI	95.4	0.39	2.15	3.01	7.24	13.19	7.98	1.8
60	100yrARI10%CC	105.9	0.39	2.31	3.2	7.31	14.53	8.8	1.73
60	100yrARI15%CC	111.4	0.39	2.4	3.3	7.33	15.34	9.36	1.7
60	100yrARI30%CC	127.4	0.39	2.65	3.57	7.36	17.94	10.9	1.6
60	PMF	434.4	0.39	5.66	6.63	8.49	88.46	40.85	1.19
55	20yrARI	65.6	0.33	1.63	2.35	6.83	9.61	7.78	1.96
55	100yrARI	95.4	0.33	2.07	2.95	7.27	13.12	8.05	1.82
55	100yrARI10%CC	105.9	0.33	2.23	3.14	7.36	14.41	8.61	1.76
55	100yrARI15%CC	111.4	0.33	2.32	3.24	7.38	15.18	9.24	1.73
55	100yrARI30%CC	127.4	0.33	4.26	3.5	3.74	47.36	23.78	0.61
55	PMF	434.4	0.33	5.46	6.53	8.7	85.32	42.08	1.24
50	20yrARI	65.6	0.24	1.54	2.26	6.87	9.54	7.73	1.98
50	100yrARI	95.4	0.24	3.77	2.88	3.25	38.25	21.66	0.56
50	100yrARI10%CC	105.9	0.24	3.96	3.07	3.37	42.43	23.4	0.57
50	100yrARI15%CC	111.4	0.24	4.05	3.17	3.43	44.69	24.1	0.57
50	100yrARI30%CC	127.4	0.24	4.3	3.44	3.59	50.89	25.92	0.58
50	PMF	434.4	0.24	5.29	6.43	8.89	83.01	43.54	1.28
45	20yrARI	65.6	0.16	1.45	2.18	6.92	9.49	7.68	1.99
45	100yrARI	95.4	0.16	3.79	2.79	3.14	40.7	24.26	0.54
45	100yrARI10%CC	105.9	0.16	3.98	3	3.25	45.5	26.42	0.54
45	100yrARI15%CC	111.4	0.16	4.08	3.12	3.3	48.09	27.39	0.54
45	100yrARI30%CC	127.4	0.16	4.33	3.4	3.45	55.34	29.89	0.55
45	PMF	434.4	0.16	6.51	6.3	5.83	157.91	61.64	0.75
40	20yrARI	65.6	0.07	3.1	2.1	2.74	28.16	18.31	0.51
40	100yrARI	95.4	0.07	3.82	2.72	3	44.23	26.13	0.5
40	100yrARI10%CC	105.9	0.07	4.02	2.94	3.1	49.49	28.21	0.51
40	100yrARI15%CC	111.4	0.07	4.11	3.04	3.15	52.3	29.1	0.51
40	100yrARI30%CC	127.4	0.07	4.37	3.34	3.28	60.15	31.49	0.51
40	PMF	434.4	0.07	6.63	6.19	5.46	170.93	63.67	0.69
35	20yrARI	65.6	0.01	3.11	2.04	2.68	29.14	19.03	0.5
35	100yrARI	95.4	0.01	3.83	2.65	2.93	45.97	27.28	0.49
35	100yrARI10%CC	105.9	0.01	4.03	2.89	3.03	51.5	29.42	0.49
35	100yrARI15%CC	111.4	0.01	4.13	2.99	3.07	54.45	30.31	0.49
35	100yrARI30%CC	127.4	0.01	4.39	3.3	3.2	62.67	32.72	0.5

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
35	PMF	434.4	0.01	6.68	6.12	5.29	176.93	64.2	0.66
30	20yrARI	65.6	0.12	3.06	2.15	2.83	27.79	19.16	0.54
30	100yrARI	95.4	0.12	3.81	2.78	3.03	45.34	27.96	0.51
30	100yrARI10%CC	105.9	0.12	4.01	3.01	3.11	51.15	30.31	0.51
30	100yrARI15%CC	111.4	0.12	4.11	3.11	3.15	54.27	31.23	0.51
30	100yrARI30%CC	127.4	0.12	4.37	3.4	3.26	62.95	33.7	0.51
30	PMF	434.4	0.12	6.68	6.1	5.29	179.54	64.26	0.67
25	20yrARI	69.8	0.23	2.84	2.35	3.44	23.26	16.94	0.69
25	100yrARI	103	0.23	3.55	3.04	3.72	38.33	25.54	0.66
25	100yrARI10%CC	114.3	0.23	3.75	3.31	3.79	43.79	27.98	0.65
25	100yrARI15%CC	120.3	0.23	3.86	3.4	3.82	46.68	29.2	0.65
25	100yrARI30%CC	137.5	0.23	4.13	3.65	3.92	55.05	32.14	0.64
25	PMF	438	0.23	6.47	6.13	5.75	167.39	62.07	0.74
20	20yrARI	69.8	0.32	2.45	2.45	4.3	16.98	12.4	0.96
20	100yrARI	103	0.32	3.12	3.12	4.59	28.02	20.49	0.89
20	100yrARI10%CC	114.3	0.32	3.34	3.34	4.63	32.73	23.1	0.87
20	100yrARI15%CC	120.3	0.32	3.43	3.43	4.68	34.95	24.23	0.86
20	100yrARI30%CC	137.5	0.32	3.68	3.68	4.81	41.38	27.25	0.85
20	PMF	438	0.32	6.2	6.2	6.27	150.72	59.26	0.83
15	20yrARI	69.8	0.31	2.03	2.4	5.2	16.88	15.44	1.28
15	100yrARI	103	0.31	2.44	2.95	5.94	24.12	20.12	1.31
15	100yrARI10%CC	114.3	0.31	2.58	3.11	6.11	26.92	21.73	1.31
15	100yrARI15%CC	120.3	0.31	2.65	3.19	6.19	28.43	22.55	1.31
15	100yrARI30%CC	137.5	0.31	2.83	3.42	6.42	32.84	24.79	1.3
15	PMF	438	0.31	4.87	5.69	8.56	107.34	47	1.29
10	20yrARI	69.8	0.3	1.4	1.97	6.01	11.61	14.11	2.12
10	100yrARI	103	0.3	1.64	2.36	6.76	15.23	15.67	2.19
10	100yrARI10%CC	114.3	0.3	1.72	2.46	6.94	16.46	16.17	2.2
10	100yrARI15%CC	120.3	0.3	1.76	2.52	7.03	17.11	16.43	2.2
10	100yrARI30%CC	137.5	0.3	1.87	2.66	7.25	18.96	17.14	2.2
10	PMF	438	0.3	3.36	4.59	8.84	55.25	32.56	1.83
5	20yrARI	69.8	0.29	1.41	1.95	5.86	11.91	14.3	2.05
5	100yrARI	103	0.29	1.65	2.34	6.63	15.53	15.87	2.14
5	100yrARI10%CC	114.3	0.29	1.72	2.44	6.82	16.76	16.36	2.15
5	100yrARI15%CC	120.3	0.29	1.76	2.5	6.91	17.41	16.62	2.15
5	100yrARI30%CC	137.5	0.29	1.87	2.64	7.14	19.26	17.33	2.16
5	PMF	438	0.29	3.35	4.58	8.81	55.65	32.88	1.82

Proposed 10% Blockage Longport Street Culvert (Civil Certification)







River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
480	20yrARI	18	10.25	11.68	10.82	0.72	25.01	24.21	0.21
480	100yrARI	27.9	10.25	11.69	10.99	1.1	25.43	24.51	0.31
480	100yrARI10%CC	31	10.25	11.73	11.05	1.19	26.34	25.12	0.33
480	100yrARI15%CC	32.6	10.25	11.78	11.08	1.04	35.35	42.64	0.29
480	100yrARI30%CC	37.2	10.25	11.81	11.16	1.15	36.48	42.64	0.31
480	PMF	326	10.25	13.96	12.86	2.82	128.47	42.65	0.48
475	20yrARI	18	10.83	11.65	11.22	0.79	18.54	24.76	0.32
475	100yrARI	27.9	10.83	11.61	11.37	1.27	17.59	24.12	0.53
475	100yrARI10%CC	31	10.83	11.63	11.41	1.38	18.14	24.49	0.57
475	100yrARI15%CC	32.6	10.83	11.65	11.44	1.44	18.46	24.7	0.58
475	100yrARI30%CC	37.2	10.83	11.77	11.49	1.16	30	42.71	0.43
475	PMF	326	10.83	13.93	12.92	2.82	121.94	42.72	0.53
470	20yrARI	18	11.06	11.54	11.44	1.19	11.2	23.48	0.67
470	100yrARI	27.9	11.06	11.59	11.59	1.26	18.02	41.33	0.66
470	100yrARI10%CC	31	11.06	11.62	11.59	1.34	19.12	41.33	0.69
470	100yrARI15%CC	32.6	11.06	11.63	11.59	1.38	19.82	41.33	0.69
470	100yrARI30%CC	37.2	11.06	11.68	11.59	1.48	21.74	41.33	0.7
470	PMF	326	11.06	13.83	13.01	3.06	110.49	41.34	0.6
465	20yrARI	18	11.37	11.58	11.42	0.5	19.34	42.06	0.36
465	100yrARI	27.9	11.37	11.55	11.52	0.77	17.98	42.06	0.6

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
465	100yrARI10%CC	31	11.37	11.58	11.52	0.87	19.45	42.06	0.61
465	100yrARI15%CC	32.6	11.37	11.6	11.52	0.91	20.19	42.06	0.61
465	100yrARI30%CC	37.2	11.37	11.65	11.56	1.02	22.22	42.06	0.63
465	PMF	326	11.37	13.83	12.96	2.67	114.08	42.07	0.54
461.79	20yrARI	18	11.42	11.4	11.4		9.18	23.41	0
461.79	100yrARI	27.9	11.42	11.55	11.47	0.53	20.55	42.31	0.47
461.79	100yrARI10%CC	31	11.42	11.59	11.47	0.62	22.05	42.31	0.49
461.79	100yrARI15%CC	32.6	11.42	11.6	11.47	0.67	22.8	42.31	0.5
461.79	100yrARI30%CC	37.2	11.42	11.65	11.49	0.78	24.87	42.31	0.52
461.79	PMF	326	11.42	13.84	12.89	2.56	117.53	42.34	0.53
460	20yrARI	18	11	11.46	11.39	0.93	18.3	42.82	0.44
460	100yrARI	27.9	11	11.55	11.45	1.21	22.39	42.82	0.52
460	100yrARI10%CC	31	11	11.59	11.45	1.27	23.92	42.82	0.53
460	100yrARI15%CC	32.6	11	11.61	11.45	1.3	24.69	42.82	0.53
460	100yrARI30%CC	37.2	11	11.65	11.45	1.37	26.79	42.83	0.54
460	PMF	326	11	13.85	12.84	2.72	120.93	42.86	0.51
457.48	20yrARI	18	11.12	11.45	11.41	0.67	18.83	41.86	0.38
457.48	100yrARI	27.9	11.12	11.54	11.42	0.93	22.72	41.86	0.46
457.48	100yrARI10%CC	31	11.12	11.58	11.42	0.99	24.21	41.86	0.47
457.48	100yrARI15%CC	32.6	11.12	11.6	11.42	1.02	24.96	41.86	0.48
457.48	100yrARI30%CC	37.2	11.12	11.65	11.44	1.1	27	41.86	0.49
457.48	PMF	326	11.12	13.83	12.84	2.61	118.39	41.88	0.51
457.11	20yrARI	18	11.15	11.42	11.42	0.81	14.95	38.67	0.51
457.11	100yrARI	27.9	11.15	11.48	11.42	1.16	17.32	38.68	0.66
457.11	100yrARI10%CC	31	11.15	11.51	11.44	1.24	18.53	38.69	0.67
457.11	100yrARI15%CC	32.6	11.15	11.53	11.45	1.28	19.14	38.69	0.68
457.11	100yrARI30%CC	37.2	11.15	11.57	11.49	1.38	20.77	38.7	0.69
457.11	PMF	326	11.15	13.69	12.97	3.02	103.36	39.06	0.61
455	20yrARI	18	11.27	11.39	11.39	0.42	16.97	43.01	0.39
455	100yrARI	27.9	11.27	11.5	11.39	0.7	21.75	43.01	0.47
455	100yrARI10%CC	31	11.27	11.53	11.39	0.77	23.2	43.01	0.48
455	100yrARI15%CC	32.6	11.27	11.55	11.39	0.81	23.93	43.01	0.49
455	100yrARI30%CC	37.2	11.27	11.6	11.43	0.9	25.89	43.01	0.5
455	PMF	326	11.27	13.78	12.8	2.54	119.78	43.04	0.51
450	20yrARI	18	11.32	11.35	11.34	0.16	15.5	43.09	0.33
450	100yrARI	27.9	11.32	11.47	11.35	0.55	20.6	43.09	0.47
450	100yrARI10%CC	31	11.32	11.5	11.37	0.64	22.02	43.09	0.49
450	100yrARI15%CC	32.6	11.32	11.52	11.39	0.68	22.74	43.09	0.5
450	100yrARI30%CC	37.2	11.32	11.56	11.42	0.79	24.66	43.09	0.52
450	PMF	326	11.32	13.77	12.79	2.52	119.79	43.12	0.51
445	20yrARI	18	11.19	11.3	11.29	0.52	13.9	43.18	0.5
445	100yrARI	27.9	11.19	11.42	11.34	0.85	18.99	43.18	0.57

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
445	100yrARI10%CC	31	11.19	11.45	11.36	0.93	20.4	43.18	0.58
445	100yrARI15%CC	32.6	11.19	11.47	11.37	0.97	21.1	43.18	0.59
445	100yrARI30%CC	37.2	11.19	11.51	11.41	1.07	22.99	43.18	0.61
445	PMF	326	11.19	13.76	12.78	2.59	119.87	43.21	0.52
440	20yrARI	18	11.2	11.21	11.21	0.15	11.28	38.91	0.44
440	100yrARI	27.9	11.2	11.34	11.3	0.74	16.37	41.29	0.63
440	100yrARI10%CC	31	11.2	11.37	11.33	0.84	17.83	41.85	0.65
440	100yrARI15%CC	32.6	11.2	11.39	11.35	0.89	18.52	42.08	0.65
440	100yrARI30%CC	37.2	11.2	11.43	11.38	1.02	20.54	43.21	0.67
440	PMF	326	11.2	13.75	12.76	2.56	120.44	43.22	0.51
435	20yrARI	18	11.02	11.15	11.15	0.69	10.91	36.98	0.65
435	100yrARI	27.9	11.02	11.25	11.25	1.09	14.75	38.53	0.75
435	100yrARI10%CC	31	11.02	11.28	11.28	1.18	15.84	39.1	0.77
435	100yrARI15%CC	32.6	11.02	11.29	11.29	1.23	16.44	39.43	0.77
435	100yrARI30%CC	37.2	11.02	11.33	11.33	1.35	18.04	40.29	0.79
435	PMF	326	11.02	13.74	12.72	2.53	122.17	43.27	0.49
430	20yrARI	18	11.04	11.05	11.05	0.11	11	36.7	0.41
430	100yrARI	27.9	11.04	11.08	11.15	0.47	12.3	37.44	0.73
430	100yrARI10%CC	31	11.04	11.11	11.17	0.66	13.35	38.04	0.8
430	100yrARI15%CC	32.6	11.04	11.13	11.19	0.75	13.9	38.35	0.82
430	100yrARI30%CC	37.2	11.04	11.17	11.23	0.95	15.38	39.16	0.87
430	PMF	326	11.04	13.75	12.62	2.46	126.75	43.2	0.48
425	20yrARI	18	10.64	11.01	10.98	1.33	11.83	38.19	0.69
425	100yrARI	27.9	10.64	11.06	11.09	1.87	13.61	39.25	0.92
425	100yrARI10%CC	31	10.64	11.09	11.13	1.95	14.88	40.54	0.93
425	100yrARI15%CC	32.6	10.64	11.1	11.14	1.99	15.5	41.17	0.93
425	100yrARI30%CC	37.2	10.64	11.2	11.18	1.86	19.84	42.9	0.79
425	PMF	326	10.64	13.75	12.56	2.62	128.95	42.91	0.47
420	20yrARI	18	10.84	10.94	10.94	0.54	11.06	35.79	0.59
420	100yrARI	27.9	10.84	11.02	11.05	0.95	14.37	41.75	0.74
420	100yrARI10%CC	31	10.84	11.05	11.08	1.06	15.52	41.75	0.76
420	100yrARI15%CC	32.6	10.84	11.06	11.09	1.11	16.15	41.75	0.77
420	100yrARI30%CC	37.2	10.84	11.17	11.13	1.18	20.55	41.75	0.67
420	PMF	326	10.84	13.73	12.52	2.4	127.55	41.76	0.45
415	20yrARI	18	10.64	10.86	10.86	1.05	10.68	32.98	0.73
415	100yrARI	27.9	10.64	11	10.98	1.39	15.62	35.73	0.74
415	100yrARI10%CC	31	10.64	11.04	11.01	1.46	17	35.73	0.74
415	100yrARI15%CC	32.6	10.64	11.06	11.02	1.5	17.62	35.73	0.75
415	100yrARI30%CC	37.2	10.64	11.11	11.06	1.61	19.37	35.73	0.76
415	PMF	326	10.64	13.58	12.61	2.96	108.75	37.24	0.55
410	20yrARI	18	10.69	10.79	10.8	0.65	10.34	31.78	0.64
410	100yrARI	27.9	10.69	10.92	10.92	1.09	14.7	35.66	0.72

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
410	100yrARI10%CC	31	10.69	10.95	10.95	1.2	15.79	35.66	0.74
410	100yrARI15%CC	32.6	10.69	10.97	10.97	1.24	16.38	35.66	0.75
410	100yrARI30%CC	37.2	10.69	11.01	11.01	1.38	17.92	35.66	0.77
410	PMF	326	10.69	13.57	12.57	2.9	109.17	35.67	0.54
406.86	20yrARI	18	10.53	10.75	10.75	1.09	10.36	31.26	0.73
406.86	100yrARI	27.9	10.53	10.84	10.87	1.53	13.22	33.22	0.87
406.86	100yrARI10%CC	31	10.53	10.88	10.9	1.62	14.37	33.87	0.88
406.86	100yrARI15%CC	32.6	10.53	10.9	10.94	1.67	14.97	34.21	0.88
406.86	100yrARI30%CC	37.2	10.53	10.94	10.98	1.79	16.58	44.04	0.9
406.86	PMF	326	10.53	13.68	12.35	2.38	137.57	44.05	0.43
405	20yrARI	18	9.42	10.36	10.53	4.09	6.08	15.85	1.36
405	100yrARI	27.9	9.42	10.55	10.7	4.16	9.51	20.7	1.26
405	100yrARI10%CC	31	9.42	10.6	10.73	4.17	10.57	22.18	1.24
405	100yrARI15%CC	32.6	9.42	10.62	10.75	4.24	10.97	22.62	1.25
405	100yrARI30%CC	37.2	9.42	11.08	10.8	1.88	30.57	47.17	0.47
405	PMF	326	9.42	13.73	12.14	2.5	155.37	47.18	0.39
400	20yrARI	18	3.97	8.2	5.7	1.48	15.98	7.04	0.23
400	100yrARI	27.9	3.97	10.15	6.28	1.22	41.61	24.6	0.16
400	100yrARI10%CC	31	3.97	10.58	6.47	1.14	59.01	54.21	0.14
400	100yrARI15%CC	32.6	3.97	10.82	6.56	1.07	72.38	58.65	0.13
400	100yrARI30%CC	37.2	3.97	11.11	6.83	1.05	90.34	62.27	0.13
400	PMF	326	3.97	13.76	11.9	3.15	255.47	62.28	0.32
395	20yrARI	41.3	3.87	7.5	7.05	3.98	13.96	7.97	0.68
395	100yrARI	51.8	3.87	10.16	7.58	1.16	134.51	93.63	0.15
395	100yrARI10%CC	57.5	3.87	10.6	7.77	0.98	183.51	127.76	0.12
395	100yrARI15%CC	60.5	3.87	10.83	7.87	0.9	214.69	138.19	0.11
395	100yrARI30%CC	69.2	3.87	11.12	8.13	0.86	256.35	147.06	0.1
395	PMF	351.9	3.87	13.87	10.61	1.33	769.53	199.56	0.14
390	20yrARI	41.3	3.81	7.62	6.92	3.5	16.89	9.65	0.58
390	100yrARI	51.8	3.81	10.17	7.36	1.1	143.31	102.47	0.14
390	100yrARI10%CC	57.5	3.81	10.6	7.6	0.94	195.78	132.27	0.12
390	100yrARI15%CC	60.5	3.81	10.83	7.69	0.86	227.67	140.2	0.1
390	100yrARI30%CC	69.2	3.81	11.12	7.99	0.83	270.34	150.77	0.1
390	PMF	351.9	3.81	13.87	10.55	1.31	795.35	203.11	0.13
380	20yrARI	41.3	3.67	7.63	6.91	3.45	18.49	10.62	0.57
380	100yrARI	51.8	3.67	10.17	7.34	1.09	152.95	132.24	0.14
380	100yrARI10%CC	57.5	3.67	10.6	7.57	0.91	212.7	143.24	0.11
380	100yrARI15%CC	60.5	3.67	10.83	7.66	0.82	248.45	157.95	0.1
380	100yrARI30%CC	69.2	3.67	11.12	7.92	0.79	295.04	163.41	0.09
380	PMF	351.9	3.67	13.87	10.52	1.22	856.09	215.84	0.12
379		Bridge							

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
375	20yrARI	41.3	3.58	7.71	6.7	3.08	20.62	11.15	0.49
375	100yrARI	51.8	3.58	10.16	7.13	1.1	153.02	134.5	0.14
375	100yrARI10%CC	57.5	3.58	10.59	7.36	0.91	213.18	148.42	0.11
375	100yrARI15%CC	60.5	3.58	10.83	7.46	0.83	249.16	158.75	0.1
375	100yrARI30%CC	69.2	3.58	11.11	7.71	0.79	295.59	166.97	0.09
375	PMF	351.9	3.58	13.86	10.55	1.21	867	216.56	0.12
368.38	20yrARI	41.3	3.47	7.73	6.64	2.96	21.46	10.78	0.47
368.38	100yrARI	51.8	3.47	10.15	7.09	1.23	125.79	88.98	0.15
368.38	100yrARI10%CC	57.5	3.47	10.59	7.28	1.01	188.57	127.98	0.12
368.38	100yrARI15%CC	60.5	3.47	10.82	7.37	0.92	219.9	137.8	0.11
368.38	100yrARI30%CC	69.2	3.47	11.11	7.64	0.89	259.87	141.6	0.1
368.38	PMF	351.9	3.47	13.86	10.68	1.42	738.89	177.85	0.14
355.18	20yrARI	41.3	3.24	7.8	6.3	2.48	26.33	11.12	0.38
355.18	100yrARI	51.8	3.24	10.14	6.7	1.32	118.33	102.03	0.16
355.18	100yrARI10%CC	57.5	3.24	10.58	6.89	1.06	189.92	141.18	0.13
355.18	100yrARI15%CC	60.5	3.24	10.82	6.99	0.96	224.39	150.57	0.11
355.18	100yrARI30%CC	69.2	3.24	11.11	7.23	0.93	268.25	154.59	0.11
355.18	PMF	351.9	3.24	13.85	10.82	1.5	724.59	167.23	0.15
350	20yrARI	41.3	3.18	7.83	5.98	2.18	30.68	12.73	0.33
350	100yrARI	51.8	3.18	10.13	6.4	1.31	99.55	67	0.16
350	100yrARI10%CC	57.5	3.18	10.57	6.59	1.12	158.48	108.34	0.13
350	100yrARI15%CC	60.5	3.18	10.81	6.69	1.05	184.87	113.75	0.12
350	100yrARI30%CC	69.2	3.18	11.1	7.02	1.04	217.51	113.75	0.12
350	PMF	351.9	3.18	13.82	10.91	2.02	527.05	113.75	0.2
345	20yrARI	41.3	3.12	7.85	5.97	2.07	33.24	13.84	0.31
345	100yrARI	51.8	3.12	10.13	6.35	1.28	96.95	67	0.16
345	100yrARI10%CC	57.5	3.12	10.56	6.54	1.2	125.84	67	0.14
345	100yrARI15%CC	60.5	3.12	10.81	6.63	1.05	182.73	114.38	0.12
345	100yrARI30%CC	69.2	3.12	11.1	6.9	1.05	215.52	114.38	0.12
345	PMF	351.9	3.12	13.81	10.91	2.05	526.47	114.38	0.2
334.53	20yrARI	61.6	2.99	7.83	5.82	2.31	47.51	16.25	0.35
334.53	100yrARI	86.5	2.99	10.06	6.39	1.9	87.01	22.28	0.23
334.53	100yrARI10%CC	96	2.99	10.48	6.58	1.94	98.57	38.82	0.23
334.53	100yrARI15%CC	101.1	2.99	10.74	6.7	1.77	148.65	101.95	0.21
334.53	100yrARI30%CC	115.5	2.99	11.03	6.95	1.83	179.82	116.73	0.21
334.53	PMF	351.9	2.99	13.79	9.71	2.22	502.83	116.82	0.22
321.93	20yrARI	61.6	2.86	7.75	6.29	2.62	41.13	16.44	0.39
321.93	100yrARI	86.5	2.86	10.05	6.85	2.02	83.08	20.11	0.24
321.93	100yrARI10%CC	96	2.86	10.46	7.03	2.05	92.64	28.73	0.24
321.93	100yrARI15%CC	101.1	2.86	10.69	7.12	2.06	100.12	36.28	0.24
321.93	100yrARI30%CC	115.5	2.86	11.01	7.37	1.95	162.13	100.14	0.22
321.93	PMF	351.9	2.86	13.78	10.05	2.36	471.46	112.22	0.23

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
315	20yrARI	61.6	2.77	7.66	6.28	2.9	36.68	16.05	0.43
315	100yrARI	86.5	2.77	10.02	6.93	2.12	80.11	20.18	0.26
315	100yrARI10%CC	96	2.77	10.44	7.15	2.15	89.29	26.83	0.25
315	100yrARI15%CC	101.1	2.77	10.67	7.26	2.16	96.35	34.41	0.25
315	100yrARI30%CC	115.5	2.77	11	7.53	2.04	157.18	89.66	0.23
315	PMF	351.9	2.77	13.77	10.37	2.45	462.25	111.64	0.24
310	20yrARI	61.6	2.71	7.71	6.16	2.62	40.96	16.29	0.39
310	100yrARI	86.5	2.71	10.03	6.74	2.06	83.2	20.09	0.25
310	100yrARI10%CC	96	2.71	10.45	6.93	2.1	92.19	26.06	0.25
310	100yrARI15%CC	101.1	2.71	10.68	7.03	2.12	99.05	33.67	0.24
310	100yrARI30%CC	115.5	2.71	11	7.31	2	160.67	88.15	0.23
310	PMF	351.9	2.71	13.77	10.08	2.47	460.88	110.84	0.24
305	20yrARI	61.6	2.65	7.69	6.12	2.68	40.08	16.32	0.39
305	100yrARI	86.5	2.65	10.03	6.82	2.05	82.88	20.22	0.25
305	100yrARI10%CC	96	2.65	10.45	7.01	2.09	91.8	25.27	0.24
305	100yrARI15%CC	101.1	2.65	10.68	7.11	2.1	98.48	32.91	0.24
305	100yrARI30%CC	115.5	2.65	11	7.38	1.98	162.4	87.39	0.22
305	PMF	351.9	2.65	13.76	10.8	2.48	459.92	110.76	0.24
300	20yrARI	61.6	2.59	7.69	6.09	2.64	41.16	16.6	0.38
300	100yrARI	86.5	2.59	10.03	6.75	2.05	84.38	20.39	0.24
300	100yrARI10%CC	96	2.59	10.44	6.96	2.1	93.21	24.37	0.24
300	100yrARI15%CC	101.1	2.59	10.7	7.06	1.92	138.47	74.67	0.22
300	100yrARI30%CC	115.5	2.59	11	7.35	1.99	162.06	84.47	0.22
300	PMF	351.9	2.59	13.76	10.77	2.55	451.2	108.87	0.25
290	20yrARI	61.6	2.49	7.72	5.9	2.45	45.15	16.91	0.35
290	100yrARI	86.5	2.49	10.04	6.51	1.96	88.66	20.63	0.23
290	100yrARI10%CC	96	2.49	10.45	6.72	2.01	97.46	23	0.23
290	100yrARI15%CC	101.1	2.49	10.71	6.82	1.81	149.04	76.62	0.2
290	100yrARI30%CC	115.5	2.49	11.01	7.15	1.87	173.23	86.47	0.21
290	PMF	351.9	2.49	13.76	9.85	2.45	464.22	112.13	0.24
285	20yrARI	61.6	2.44	7.71	5.88	2.47	44.58	16.93	0.35
285	100yrARI	86.5	2.44	10.03	6.51	1.97	88.24	20.68	0.23
285	100yrARI10%CC	96	2.44	10.45	6.75	2.02	97.02	22.3	0.23
285	100yrARI15%CC	101.1	2.44	10.71	6.85	1.8	150.51	74.03	0.2
285	100yrARI30%CC	115.5	2.44	11.01	7.13	1.87	173.87	83.77	0.21
285	PMF	351.9	2.44	13.75	9.89	2.5	453.98	110.22	0.24
280	20yrARI	61.6	2.39	7.68	5.88	2.56	41.62	16.73	0.37
280	100yrARI	86.5	2.39	10	6.56	2.11	76.47	20.61	0.25
280	100yrARI10%CC	96	2.39	10.41	6.78	2.18	82.65	21.27	0.25
280	100yrARI15%CC	101.1	2.39	10.62	6.92	2.21	85.82	68.33	0.25
280	100yrARI30%CC	115.5	2.39	10.89	7.2	2.43	89.76	76.98	0.27
280	PMF	351.9	2.39	13.74	10	2.6	436.19	108.27	0.25

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
275	20yrARI	61.6	2.35	7.59	5.42	2.63	28.14	11.25	0.38
275	100yrARI	86.5	2.35	9.9	6.14	2.32	51.16	24.84	0.28
275	100yrARI10%CC	96	2.35	10.3	6.42	2.41	55.19	76.16	0.28
275	100yrARI15%CC	101.1	2.35	10.51	6.54	2.45	57.26	77.55	0.28
275	100yrARI30%CC	115.5	2.35	10.75	6.87	2.7	59.62	85.47	0.31
275	PMF	351.9	2.35	13.73	10.68	2.47	474.25	124.17	0.24
270	20yrARI	61.6	2.3	7.45	5.29	3.05	23.46	7.08	0.43
270	100yrARI	86.5	2.3	9.72	6.06	2.9	37.09	54.4	0.34
270	100yrARI10%CC	96	2.3	10.33	6.34	2.37	103.43	68.76	0.27
270	100yrARI15%CC	101.1	2.3	10.56	6.48	2.29	119.32	70.74	0.25
270	100yrARI30%CC	115.5	2.3	10.84	6.86	2.37	140.15	80.28	0.26
270	PMF	351.9	2.3	13.7	11.4	2.82	426.64	122.73	0.27
250		Culvert							
230	20yrARI	65.6	1.91	4.67	4.98	5.44	13.01	8.38	1.08
230	100yrARI	95.4	1.91	5.79	5.79	5.37	23.34	10	0.89
230	100yrARI10%CC	105.9	1.91	6	6	5.55	25.46	10.31	0.9
230	100yrARI15%CC	111.4	1.91	6.11	6.11	5.64	26.57	10.46	0.9
230	100yrARI30%CC	127.4	1.91	6.41	6.41	5.87	29.81	10.91	0.9
230	PMF	434.4	1.91	10.86	10.86	7.39	113.23	45.47	0.8
220	20yrARI	65.6	1.8	4.63	5.18	5.97	16	15.23	1.18
220	100yrARI	95.4	1.8	5.04	5.68	6.84	22.54	16.92	1.25
220	100yrARI10%CC	105.9	1.8	5.14	5.83	7.21	24.17	17.31	1.3
220	100yrARI15%CC	111.4	1.8	5.18	5.91	7.39	24.98	17.51	1.32
220	100yrARI30%CC	127.4	1.8	5.31	6.12	7.89	27.27	18.05	1.38
220	PMF	434.4	1.8	7	8.64	13.1	63.08	23.79	1.87
215	20yrARI	65.6	1.77	4.53	5.1	6.14	16.35	17.48	1.22
215	100yrARI	95.4	1.77	4.88	5.57	7.11	22.74	19.03	1.33
215	100yrARI10%CC	105.9	1.77	4.97	5.71	7.49	24.38	19.4	1.38
215	100yrARI15%CC	111.4	1.77	5.01	5.78	7.68	25.22	20.2	1.4
215	100yrARI30%CC	127.4	1.77	5.13	5.96	8.19	27.6	20.74	1.47
215	PMF	434.4	1.77	6.6	8.25	13.74	62.85	26.18	2.03
210	20yrARI	65.6	1.73	4.54	5.1	6.13	17.35	18.04	1.19
210	100yrARI	95.4	1.73	4.87	5.56	7.16	23.49	18.97	1.31
210	100yrARI10%CC	105.9	1.73	4.96	5.69	7.55	25.07	19.2	1.36
210	100yrARI15%CC	111.4	1.73	5	5.75	7.75	25.87	19.33	1.39
210	100yrARI30%CC	127.4	1.73	5.11	5.94	8.28	28.39	22.81	1.46
210	PMF	434.4	1.73	6.49	8.12	14.09	63.45	27.27	2.08
205	20yrARI	65.6	1.67	4.44	5.01	6.24	17.19	19.63	1.22
205	100yrARI	95.4	1.67	4.75	5.46	7.3	23.52	20.67	1.35
205	100yrARI10%CC	105.9	1.67	4.83	5.59	7.69	25.16	20.93	1.4
205	100yrARI15%CC	111.4	1.67	4.87	5.65	7.89	26	21.06	1.43
205	100yrARI30%CC	127.4	1.67	4.98	5.82	8.42	28.33	21.42	1.5

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
205	PMF	434.4	1.67	6.28	7.9	14.33	63.9	29.38	2.15
200	20yrARI	65.6	1.62	4.31	4.9	6.33	16.57	21.07	1.27
200	100yrARI	95.4	1.62	4.62	5.35	7.37	23.3	22.31	1.39
200	100yrARI10%CC	105.9	1.62	4.69	5.47	7.76	25.04	22.62	1.45
200	100yrARI15%CC	111.4	1.62	4.73	5.53	7.95	25.93	22.77	1.47
200	100yrARI30%CC	127.4	1.62	4.84	5.7	8.48	28.38	23.2	1.54
200	PMF	434.4	1.62	6.12	7.73	14.33	64.95	31.37	2.19
195	20yrARI	65.6	1.56	4.24	4.85	6.39	16.61	22.9	1.28
195	100yrARI	95.4	1.56	4.53	5.27	7.46	23.56	24.08	1.41
195	100yrARI10%CC	105.9	1.56	4.61	5.39	7.85	25.36	24.37	1.47
195	100yrARI15%CC	111.4	1.56	4.65	5.45	8.04	26.26	24.52	1.5
195	100yrARI30%CC	127.4	1.56	4.75	5.61	8.58	28.77	24.92	1.57
195	PMF	434.4	1.56	8.48	7.58	6.16	154.26	38.42	0.75
190	20yrARI	65.6	1.5	4.17	4.79	6.44	16.49	24.3	1.29
190	100yrARI	95.4	1.5	5.38	5.19	4.13	49.67	31.64	0.68
190	100yrARI10%CC	105.9	1.5	5.58	5.31	4.11	56.09	32.58	0.66
190	100yrARI15%CC	111.4	1.5	5.66	5.37	4.14	58.91	32.99	0.66
190	100yrARI30%CC	127.4	1.5	5.89	5.52	4.22	66.61	34.07	0.65
190	PMF	434.4	1.5	8.57	7.45	5.73	167.31	40.96	0.69
185	20yrARI	65.6	1.44	4.11	4.74	6.48	16.27	24.82	1.3
185	100yrARI	95.4	1.44	5.43	5.13	3.87	53.92	32.84	0.63
185	100yrARI10%CC	105.9	1.44	5.62	5.25	3.87	60.35	33.66	0.61
185	100yrARI15%CC	111.4	1.44	5.7	5.31	3.9	63.22	34.03	0.61
185	100yrARI30%CC	127.4	1.44	5.93	5.46	3.99	71.07	35	0.61
185	PMF	434.4	1.44	8.6	7.35	5.51	174.73	42.35	0.66
180	20yrARI	65.6	1.38	4.06	4.7	6.51	16.14	24.04	1.3
180	100yrARI	95.4	1.38	5.43	5.1	3.81	55.48	33.64	0.61
180	100yrARI10%CC	105.9	1.38	5.62	5.23	3.82	62	34.31	0.6
180	100yrARI15%CC	111.4	1.38	5.71	5.28	3.85	64.91	34.61	0.6
180	100yrARI30%CC	127.4	1.38	5.93	5.44	3.95	72.83	35.41	0.6
180	PMF	434.4	1.38	8.6	7.33	5.51	177.11	42.58	0.66
175	20yrARI	65.6	1.33	3.96	4.61	6.58	15.02	22.18	1.35
175	100yrARI	95.4	1.33	5.5	4.99	3.36	60.97	35.63	0.54
175	100yrARI10%CC	105.9	1.33	5.69	5.11	3.38	67.69	36.37	0.53
175	100yrARI15%CC	111.4	1.33	5.77	5.17	3.41	70.74	36.7	0.53
175	100yrARI30%CC	127.4	1.33	6	5.32	3.5	79.1	37.6	0.53
175	PMF	434.4	1.33	8.69	7.13	4.88	190.75	45.17	0.58
170	20yrARI	65.6	1.26	3.89	4.57	6.57	14.79	20.3	1.36
170	100yrARI	95.4	1.26	5.46	4.96	3.46	61.96	36.01	0.55
170	100yrARI10%CC	105.9	1.26	5.64	5.09	3.5	68.68	36.71	0.55
170	100yrARI15%CC	111.4	1.26	5.73	5.15	3.53	71.7	37.02	0.55
170	100yrARI30%CC	127.4	1.26	5.95	5.31	3.65	79.97	37.86	0.55

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
170	PMF	434.4	1.26	8.6	7.21	5.22	192.29	46.67	0.63
165	20yrARI	65.6	1.19	4.79	4.49	3.28	40.85	29.78	0.57
165	100yrARI	95.4	1.19	5.48	4.89	3.27	63.93	36.18	0.52
165	100yrARI10%CC	105.9	1.19	5.66	5.01	3.33	70.57	36.98	0.52
165	100yrARI15%CC	111.4	1.19	5.74	5.07	3.37	73.58	37.33	0.52
165	100yrARI30%CC	127.4	1.19	5.96	5.24	3.5	81.84	38.29	0.53
165	PMF	434.4	1.19	8.6	7.17	5.08	195.73	47.54	0.61
160	20yrARI	65.6	1.15	4.79	4.47	3.26	41.23	29.42	0.57
160	100yrARI	95.4	1.15	5.48	4.87	3.27	64.15	36.23	0.52
160	100yrARI10%CC	105.9	1.15	5.66	4.98	3.32	70.8	37.12	0.51
160	100yrARI15%CC	111.4	1.15	5.74	5.05	3.36	73.83	37.52	0.52
160	100yrARI30%CC	127.4	1.15	5.96	5.22	3.48	82.17	38.59	0.52
160	PMF	434.4	1.15	8.62	7.15	5.02	198.22	48.5	0.6
155	20yrARI	65.6	1.11	4.8	4.47	3.22	41.42	29.2	0.55
155	100yrARI	95.4	1.11	5.49	4.85	3.19	64.44	36.25	0.5
155	100yrARI10%CC	105.9	1.11	5.67	4.97	3.23	71.15	37.2	0.49
155	100yrARI15%CC	111.4	1.11	5.76	5.03	3.27	74.21	37.62	0.5
155	100yrARI30%CC	127.4	1.11	5.98	5.2	3.38	82.65	38.77	0.5
155	PMF	434.4	1.11	8.66	7.07	4.77	201.68	49.87	0.56
150	20yrARI	65.6	1.05	4.8	4.44	3.19	41.35	28.68	0.54
150	100yrARI	95.4	1.05	5.48	4.83	3.2	63.88	36.07	0.5
150	100yrARI10%CC	105.9	1.05	5.66	4.95	3.25	70.55	37.07	0.49
150	100yrARI15%CC	111.4	1.05	5.74	5.02	3.28	73.58	37.52	0.49
150	100yrARI30%CC	127.4	1.05	5.96	5.19	3.4	81.99	38.71	0.5
150	PMF	434.4	1.05	8.65	7.09	4.79	201.8	50.54	0.56
145	20yrARI	65.6	1	4.72	4.43	3.43	38.75	27.77	0.58
145	100yrARI	95.4	1	5.42	4.85	3.42	61.27	35.77	0.53
145	100yrARI10%CC	105.9	1	5.6	4.97	3.47	67.95	36.79	0.52
145	100yrARI15%CC	111.4	1	5.68	5.05	3.51	70.96	37.24	0.53
145	100yrARI30%CC	127.4	1	5.9	5.23	3.64	79.24	38.45	0.53
145	PMF	434.4	1	8.58	7.18	5.08	199.05	50.76	0.59
140	20yrARI	65.6	0.95	4.71	4.39	3.39	37.68	26.9	0.57
140	100yrARI	95.4	0.95	5.41	4.83	3.41	59.63	35.53	0.53
140	100yrARI10%CC	105.9	0.95	5.59	4.96	3.46	66.27	36.57	0.52
140	100yrARI15%CC	111.4	0.95	5.67	5.04	3.5	69.26	37.03	0.52
140	100yrARI30%CC	127.4	0.95	5.89	5.22	3.62	77.49	38.26	0.53
140	PMF	434.4	0.95	8.57	7.19	5.04	196	50.02	0.59
135	20yrARI	65.6	0.9	4.62	4.38	3.63	34.12	25.48	0.62
135	100yrARI	95.4	0.9	5.34	4.84	3.6	55.95	34.89	0.56
135	100yrARI10%CC	105.9	0.9	5.53	4.99	3.64	62.72	36	0.55
135	100yrARI15%CC	111.4	0.9	5.61	5.08	3.68	65.68	36.47	0.55
135	100yrARI30%CC	127.4	0.9	5.83	5.27	3.8	73.87	37.67	0.56

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
135	PMF	434.4	0.9	8.51	7.25	5.25	187.98	47.65	0.62
130	20yrARI	65.6	0.85	4.51	4.35	3.86	30.71	23.81	0.66
130	100yrARI	95.4	0.85	5.27	4.85	3.77	52.58	34.43	0.59
130	100yrARI10%CC	105.9	0.85	5.47	5.02	3.8	59.5	35.63	0.58
130	100yrARI15%CC	111.4	0.85	5.55	5.1	3.84	62.47	36.13	0.58
130	100yrARI30%CC	127.4	0.85	5.78	5.3	3.95	70.65	37.24	0.58
130	PMF	434.4	0.85	8.46	7.29	5.4	183.56	46.76	0.63
125	20yrARI	65.6	0.8	4.51	4.31	3.84	29.98	23.15	0.66
125	100yrARI	95.4	0.8	5.26	4.84	3.77	51.46	34.37	0.58
125	100yrARI10%CC	105.9	0.8	5.46	5.01	3.79	58.47	35.62	0.57
125	100yrARI15%CC	111.4	0.8	5.55	5.1	3.83	61.48	36.01	0.57
125	100yrARI30%CC	127.4	0.8	5.77	5.3	3.94	69.69	37.05	0.58
125	PMF	434.4	0.8	8.46	7.29	5.32	183.22	47.14	0.62
120	20yrARI	65.6	0.76	4.53	4.24	3.73	30.89	22.97	0.63
120	100yrARI	95.4	0.76	5.26	4.79	3.75	51.83	34.69	0.58
120	100yrARI10%CC	105.9	0.76	5.46	4.97	3.77	58.8	35.62	0.57
120	100yrARI15%CC	111.4	0.76	5.54	5.06	3.81	61.8	35.98	0.57
120	100yrARI30%CC	127.4	0.76	5.76	5.27	3.94	69.84	36.94	0.57
120	PMF	434.4	0.76	8.44	7.3	5.37	183.4	48.28	0.63
115	20yrARI	65.6	0.71	4.18	4.18	4.5	24.45	18.44	0.78
115	100yrARI	95.4	0.71	4.79	4.79	4.88	37.79	25.41	0.78
115	100yrARI10%CC	105.9	0.71	4.98	4.98	4.96	42.78	27.56	0.78
115	100yrARI15%CC	111.4	0.71	5.09	5.09	4.95	46.43	34.12	0.76
115	100yrARI30%CC	127.4	0.71	5.32	5.32	5.09	54.22	35.18	0.77
115	PMF	434.4	0.71	8.24	7.46	6.07	178.2	52.36	0.71
110	20yrARI	65.6	0.66	3.42	3.85	5.64	15	11.84	1.15
110	100yrARI	95.4	0.66	4.19	4.56	5.69	26.36	18.18	1.01
110	100yrARI10%CC	105.9	0.66	4.4	4.75	5.73	30.44	20.55	0.98
110	100yrARI15%CC	111.4	0.66	4.52	4.85	5.72	32.88	21.84	0.97
110	100yrARI30%CC	127.4	0.66	4.83	5.13	5.69	40.38	25.43	0.92
110	PMF	434.4	0.66	8.13	7.47	6.01	178.97	54.09	0.72
105	20yrARI	65.6	0.63	2.39	3.18	6.92	9.48	6.12	1.77
105	100yrARI	95.4	0.63	3.06	3.86	6.95	14.77	10.02	1.49
105	100yrARI10%CC	105.9	0.63	3.29	4.13	6.92	17.22	11.53	1.41
105	100yrARI15%CC	111.4	0.63	3.41	4.22	6.9	18.66	12.33	1.37
105	100yrARI30%CC	127.4	0.63	3.75	4.51	6.82	23.25	14.59	1.28
105	PMF	434.4	0.63	8.09	7.3	5.52	181.52	54.22	0.65
100	20yrARI	65.6	0.6	1.86	2.69	7.5	8.74	7.44	2.21
100	100yrARI	95.4	0.6	2.33	3.3	7.75	12.3	7.74	1.96
100	100yrARI10%CC	105.9	0.6	2.49	3.48	7.78	13.62	8.05	1.88
100	100yrARI15%CC	111.4	0.6	2.58	3.58	7.78	14.37	8.57	1.83
100	100yrARI30%CC	127.4	0.6	2.85	3.84	7.76	16.84	10.11	1.71

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
100	PMF	434.4	0.6	8.18	6.93	4.81	192.54	55.42	0.56
95	20yrARI	65.6	0.58	1.77	2.6	7.53	8.71	7.72	2.26
95	100yrARI	95.4	0.58	2.21	3.16	7.83	12.19	8.01	2.02
95	100yrARI10%CC	105.9	0.58	2.37	3.35	7.87	13.46	8.12	1.95
95	100yrARI15%CC	111.4	0.58	2.45	3.46	7.88	14.15	8.26	1.91
95	100yrARI30%CC	127.4	0.58	2.7	3.73	7.88	16.26	8.87	1.8
95	PMF	434.4	0.58	8.22	6.83	4.6	196.17	56.3	0.54
90	20yrARI	65.6	0.55	1.77	2.58	7.39	8.87	7.62	2.19
90	100yrARI	95.4	0.55	2.22	3.18	7.7	12.39	7.86	1.96
90	100yrARI10%CC	105.9	0.55	2.39	3.39	7.74	13.68	8	1.88
90	100yrARI15%CC	111.4	0.55	2.47	3.5	7.75	14.4	8.25	1.84
90	100yrARI30%CC	127.4	0.55	2.73	3.79	7.74	16.64	8.98	1.72
90	PMF	434.4	0.55	8.25	6.8	4.52	203.95	58.2	0.52
80	20yrARI	65.6	0.49	1.71	2.49	7.26	9.04	7.84	2.16
80	100yrARI	95.4	0.49	2.13	3.05	7.67	12.44	8.11	1.98
80	100yrARI10%CC	105.9	0.49	2.28	3.24	7.75	13.67	8.22	1.92
80	100yrARI15%CC	111.4	0.49	2.37	3.33	7.76	14.36	8.55	1.87
80	100yrARI30%CC	127.4	0.49	2.61	3.59	7.79	16.56	9.63	1.76
80	PMF	434.4	0.49	6.93	6.93	6.74	111.21	36.59	0.86
70	20yrARI	65.6	0.44	1.76	2.49	6.93	9.47	7.39	1.95
70	100yrARI	95.4	0.44	2.24	3.1	7.28	13.11	7.64	1.76
70	100yrARI10%CC	105.9	0.44	2.42	3.3	7.33	14.55	8.53	1.69
70	100yrARI15%CC	111.4	0.44	2.52	3.4	7.32	15.42	9.03	1.64
70	100yrARI30%CC	127.4	0.44	2.81	3.7	7.31	18.21	10.46	1.54
70	PMF	434.4	0.44	6.63	7	7.3	106.34	38.91	0.94
65	20yrARI	65.6	0.43	1.78	2.49	6.76	9.7	7.33	1.88
65	100yrARI	95.4	0.43	2.28	3.11	7.12	13.42	7.95	1.69
65	100yrARI10%CC	105.9	0.43	2.47	3.33	7.17	14.96	8.96	1.62
65	100yrARI15%CC	111.4	0.43	2.56	3.43	7.17	15.88	9.5	1.59
65	100yrARI30%CC	127.4	0.43	2.85	3.71	7.17	18.85	11.07	1.48
65	PMF	434.4	0.43	6.18	6.9	7.96	98.58	40.95	1.06
60	20yrARI	65.6	0.39	1.69	2.41	6.81	9.63	7.74	1.95
60	100yrARI	95.4	0.39	2.15	3.01	7.24	13.19	7.98	1.8
60	100yrARI10%CC	105.9	0.39	2.31	3.2	7.31	14.53	8.8	1.73
60	100yrARI15%CC	111.4	0.39	2.4	3.3	7.33	15.34	9.36	1.7
60	100yrARI30%CC	127.4	0.39	2.65	3.57	7.36	17.94	10.9	1.6
60	PMF	434.4	0.39	5.66	6.63	8.49	88.46	40.85	1.19
55	20yrARI	65.6	0.33	1.63	2.35	6.83	9.61	7.78	1.96
55	100yrARI	95.4	0.33	2.07	2.95	7.27	13.12	8.05	1.82
55	100yrARI10%CC	105.9	0.33	2.23	3.14	7.36	14.41	8.61	1.76
55	100yrARI15%CC	111.4	0.33	2.32	3.24	7.38	15.18	9.24	1.73
55	100yrARI30%CC	127.4	0.33	4.26	3.5	3.74	47.36	23.78	0.61

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m ³ /s)	(m)	(m)	(m)	(m/s)	(m ²)	(m)	
55	PMF	434.4	0.33	5.46	6.53	8.7	85.32	42.08	1.24
50	20yrARI	65.6	0.24	1.54	2.26	6.87	9.54	7.73	1.98
50	100yrARI	95.4	0.24	3.77	2.88	3.25	38.25	21.66	0.56
50	100yrARI10%CC	105.9	0.24	3.96	3.07	3.37	42.43	23.4	0.57
50	100yrARI15%CC	111.4	0.24	4.05	3.17	3.43	44.69	24.1	0.57
50	100yrARI30%CC	127.4	0.24	4.3	3.44	3.59	50.89	25.92	0.58
50	PMF	434.4	0.24	5.29	6.43	8.89	83.01	43.54	1.28
45	20yrARI	65.6	0.16	1.45	2.18	6.92	9.49	7.68	1.99
45	100yrARI	95.4	0.16	3.79	2.79	3.14	40.7	24.26	0.54
45	100yrARI10%CC	105.9	0.16	3.98	3	3.25	45.5	26.42	0.54
45	100yrARI15%CC	111.4	0.16	4.08	3.12	3.3	48.09	27.39	0.54
45	100yrARI30%CC	127.4	0.16	4.33	3.4	3.45	55.34	29.89	0.55
45	PMF	434.4	0.16	6.51	6.3	5.83	157.91	61.64	0.75
40	20yrARI	65.6	0.07	3.1	2.1	2.74	28.16	18.31	0.51
40	100yrARI	95.4	0.07	3.82	2.72	3	44.23	26.13	0.5
40	100yrARI10%CC	105.9	0.07	4.02	2.94	3.1	49.49	28.21	0.51
40	100yrARI15%CC	111.4	0.07	4.11	3.04	3.15	52.3	29.1	0.51
40	100yrARI30%CC	127.4	0.07	4.37	3.34	3.28	60.15	31.49	0.51
40	PMF	434.4	0.07	6.63	6.19	5.46	170.93	63.67	0.69
35	20yrARI	65.6	0.01	3.11	2.04	2.68	29.14	19.03	0.5
35	100yrARI	95.4	0.01	3.83	2.65	2.93	45.97	27.28	0.49
35	100yrARI10%CC	105.9	0.01	4.03	2.89	3.03	51.5	29.42	0.49
35	100yrARI15%CC	111.4	0.01	4.13	2.99	3.07	54.45	30.31	0.49
35	100yrARI30%CC	127.4	0.01	4.39	3.3	3.2	62.67	32.72	0.5
35	PMF	434.4	0.01	6.68	6.12	5.29	176.93	64.2	0.66
30	20yrARI	65.6	0.12	3.06	2.15	2.83	27.79	19.16	0.54
30	100yrARI	95.4	0.12	3.81	2.78	3.03	45.34	27.96	0.51
30	100yrARI10%CC	105.9	0.12	4.01	3.01	3.11	51.15	30.31	0.51
30	100yrARI15%CC	111.4	0.12	4.11	3.11	3.15	54.27	31.23	0.51
30	100yrARI30%CC	127.4	0.12	4.37	3.4	3.26	62.95	33.7	0.51
30	PMF	434.4	0.12	6.68	6.1	5.29	179.54	64.26	0.67
25	20yrARI	69.8	0.23	2.84	2.35	3.44	23.26	16.94	0.69
25	100yrARI	103	0.23	3.55	3.04	3.72	38.33	25.54	0.66
25	100yrARI10%CC	114.3	0.23	3.75	3.31	3.79	43.79	27.98	0.65
25	100yrARI15%CC	120.3	0.23	3.86	3.4	3.82	46.68	29.2	0.65
25	100yrARI30%CC	137.5	0.23	4.13	3.65	3.92	55.05	32.14	0.64
25	PMF	438	0.23	6.47	6.13	5.75	167.39	62.07	0.74
20	20yrARI	69.8	0.32	2.45	2.45	4.3	16.98	12.4	0.96
20	100yrARI	103	0.32	3.12	3.12	4.59	28.02	20.49	0.89
20	100yrARI10%CC	114.3	0.32	3.34	3.34	4.63	32.73	23.1	0.87
20	100yrARI15%CC	120.3	0.32	3.43	3.43	4.68	34.95	24.23	0.86
20	100yrARI30%CC	137.5	0.32	3.68	3.68	4.81	41.38	27.25	0.85

River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	Vel Chnl	Flow Area	Top Width	Froude # Chl
		(m3/s)	(m)	(m)	(m)	(m/s)	(m2)	(m)	
20	PMF	438	0.32	6.2	6.2	6.27	150.72	59.26	0.83
15	20yrARI	69.8	0.31	2.03	2.4	5.2	16.88	15.44	1.28
15	100yrARI	103	0.31	2.44	2.95	5.94	24.12	20.12	1.31
15	100yrARI10%CC	114.3	0.31	2.58	3.11	6.11	26.92	21.73	1.31
15	100yrARI15%CC	120.3	0.31	2.65	3.19	6.19	28.43	22.55	1.31
15	100yrARI30%CC	137.5	0.31	2.83	3.42	6.42	32.84	24.79	1.3
15	PMF	438	0.31	4.87	5.69	8.56	107.34	47	1.29
10	20yrARI	69.8	0.3	1.4	1.97	6.01	11.61	14.11	2.12
10	100yrARI	103	0.3	1.64	2.36	6.76	15.23	15.67	2.19
10	100yrARI10%CC	114.3	0.3	1.72	2.46	6.94	16.46	16.17	2.2
10	100yrARI15%CC	120.3	0.3	1.76	2.52	7.03	17.11	16.43	2.2
10	100yrARI30%CC	137.5	0.3	1.87	2.66	7.25	18.96	17.14	2.2
10	PMF	438	0.3	3.36	4.59	8.84	55.25	32.56	1.83
5	20yrARI	69.8	0.29	1.41	1.95	5.86	11.91	14.3	2.05
5	100yrARI	103	0.29	1.65	2.34	6.63	15.53	15.87	2.14
5	100yrARI10%CC	114.3	0.29	1.72	2.44	6.82	16.76	16.36	2.15
5	100yrARI15%CC	120.3	0.29	1.76	2.5	6.91	17.41	16.62	2.15
5	100yrARI30%CC	137.5	0.29	1.87	2.64	7.14	19.26	17.33	2.16
5	PMF	438	0.29	3.35	4.58	8.81	55.65	32.88	1.82