

Appendix E

Hydraulic Summary

Variable Name	Units	Description
Flow Rate	m ³ /s	Total flow in cross section
Min Channel Elev	m	Minimum main channel elevation
Water Surface Elev	m	Calculated water surface from energy equation
Energy Grade Slope	m/m	Slope of the energy grade line
Velocity Chnl	m/s	Average velocity of flow in main channel
Shear Chnl	N/m ²	Shear stress in main channel
Power Chnl	N/ms	Total stream power in main channel (main channel shear stress times main channel average velocity)
Max Chnl Depth	m	Maximum main channel depth
Top Width Chnl	m	Top width of the main channel
Flow Area	m ²	Total area of cross section active flow
Froude # Chnl	-	Froude number for the main channel. Non-dimensional ratio of the inertial force to the gravitational force. When: Fr = 1, critical flow, Fr > 1, supercritical flow (fast rapid flow), Fr < 1, subcritical flow (slow / tranquil flow)

Reach 1												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
4169	2	7.99	119.89	120.32	0.040024	2.99	148.76	445.32	0.43	6.58	2.67	1.5
	5	17.16	119.89	120.57	0.040034	3.94	224.92	886.92	0.68	6.8	4.35	1.57
	10	22.91	119.89	120.71	0.040037	4.36	261.57	1140.7	0.82	6.91	5.25	1.6
	25	29.71	119.89	120.85	0.040038	4.76	298.7	1423.12	0.96	7.04	6.24	1.62
	50	36.97	119.89	120.98	0.040033	5.12	333.17	1707.22	1.09	7.17	7.21	1.63
	100	43.67	119.89	121.1	0.040032	5.41	361.53	1956.29	1.21	7.28	8.07	1.64
	Regional	134.41	119.89	122.31	0.040045	7.59	600.17	4552.91	2.42	8.65	17.72	1.69
4153	2	7.99	119.75	120.13	0.044987	2.96	150.33	444.45	0.38	7.67	2.7	1.59
	5	17.16	119.75	120.32	0.050114	4.02	245.04	985.51	0.57	8.16	4.27	1.78
	10	22.91	119.75	120.43	0.051398	4.49	290.56	1303.63	0.68	8.37	5.11	1.83
	25	29.71	119.75	120.53	0.052423	4.94	337.02	1663.77	0.78	8.61	6.02	1.89
	50	36.97	119.75	120.64	0.053279	5.34	380.65	2032.59	0.89	8.85	6.92	1.93
	100	43.67	119.75	120.72	0.05389	5.66	416.85	2360.3	0.97	9.06	7.71	1.96
	Regional	134.41	119.75	121.61	0.054804	8.13	720.08	5853.57	1.86	10.9	16.53	2.11
4144	2	7.99	119.03	119.6	0.095543	3.83	268.04	1027.77	0.58	6.82	2.08	2.22
	5	17.16	119.03	119.83	0.076698	4.67	340.55	1588.86	0.8	7.53	3.68	2.13
	10	22.91	119.03	119.94	0.073096	5.06	379.92	1922.07	0.91	7.89	4.53	2.13
	25	29.71	119.03	120.05	0.069711	5.45	420.33	2292.78	1.02	8.1	5.45	2.12
	50	36.97	119.03	120.16	0.067241	5.81	457.98	2661.07	1.13	8.3	6.36	2.12
	100	43.67	119.03	120.26	0.065598	6.1	489.19	2982.4	1.23	8.47	7.16	2.12
	Regional	134.41	119.03	121.18	0.062568	8.4	782.08	6570.73	2.15	10.83	16	2.21
4129	2	7.99	118.24	118.93	0.087731	4.41	323.93	1429.37	0.69	4.31	1.81	2.17
	5	17.16	118.24	119.27	0.067835	5.11	378.36	1932.79	1.03	5.09	3.36	2.01
	10	22.91	118.24	119.43	0.062885	5.41	405.04	2192.81	1.19	5.5	4.23	1.97
	25	29.71	118.24	119.6	0.059306	5.73	434.19	2486.25	1.36	5.87	5.19	1.95
	50	36.97	118.24	119.76	0.056655	6.01	461.88	2777.13	1.52	6.18	6.15	1.93
	100	43.67	118.24	119.89	0.05501	6.24	485.28	3030.43	1.65	6.45	6.99	1.91
	Regional	134.41	118.24	121.12	0.054316	8.06	709.92	5725.08	2.88	10.07	16.67	2
4107	2	7.99	118.62	119.34	0.015989	2.28	78.54	178.97	0.72	6.73	3.51	1.01
	5	17.16	118.62	119.59	0.022487	3.21	142.84	458.18	0.97	7.88	5.35	1.24
	10	22.91	118.62	119.66	0.030424	3.89	205.47	798.57	1.04	8.14	5.89	1.46
	25	29.71	118.62	119.75	0.036673	4.5	268.21	1206.85	1.13	8.37	6.6	1.62
	50	36.97	118.62	119.84	0.040838	5.01	323.78	1622.46	1.22	8.57	7.38	1.72
	100	43.67	118.62	119.92	0.043888	5.42	370.77	2009.29	1.3	8.74	8.06	1.8
	Regional	134.41	118.62	120.83	0.049224	7.98	681.89	5441.93	2.21	10.53	16.84	2.01
4094	2	7.99	117.51	119.13	0.001355	1	12.28	12.25	1.62	7.78	8.01	0.31
	5	17.16	117.51	119.7	0.001755	1.3	19.48	25.31	2.19	10.5	13.2	0.37
	10	22.91	117.51	119.92	0.00194	1.48	24.15	35.63	2.41	10.86	15.53	0.39
	25	29.71	117.51	120.14	0.002153	1.65	29.44	48.71	2.63	11.32	17.96	0.42
	50	36.97	117.51	120.33	0.002402	1.84	35.34	64.86	2.82	11.71	20.15	0.45
	100	43.67	117.51	120.48	0.002604	1.98	40.52	80.37	2.97	12.03	22.02	0.47
	Regional	134.41	117.51	119.91	0.068211	8.72	845.09	7369.75	2.4	10.83	15.41	2.33
4074	2	7.99	117.81	119.1	0.00283	1.2	19.48	23.39	1.29	8.95	6.66	0.44
	5	17.16	117.81	119.68	0.002157	1.38	22.33	30.73	1.87	10.93	12.47	0.41
	10	22.91	117.81	119.89	0.002297	1.54	26.75	41.07	2.08	11.54	14.92	0.43
	25	29.71	117.81	120.11	0.002449	1.69	31.51	53.41	2.3	12.2	17.53	0.45
	50	36.97	117.81	120.31	0.00267	1.85	36.83	68.27	2.5	12.92	19.95	0.48
	100	43.67	117.81	120.47	0.002864	1.98	41.32	81.72	2.66	13.68	22.08	0.5
	Regional	134.41	117.81	120.09	0.052418	7.79	668.14	5205.36	2.28	12.13	17.25	2.09
4054	2	7.99	117.85	118.96	0.008079	1.83	47.58	86.98	1.11	6.71	4.37	0.72
	5	17.16	117.85	119.55	0.00513	1.95	46.63	90.71	1.7	8.6	8.82	0.61
	10	22.91	117.85	119.75	0.00596	2.16	56.53	121.96	1.9	9.99	10.62	0.67
	25	29.71	117.85	119.97	0.006924	2.26	63.01	142.5	2.12	13.08	13.14	0.72
	50	36.97	117.85	120.18	0.006191	2.3	62.93	144.89	2.33	14.31	16.06	0.69

Reach 1												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
	100	43.67	117.85	120.36	0.005681	2.33	62.81	146.51	2.51	15.34	18.72	0.67
	Regional	134.41	117.85	120.49	0.040685	6.48	475.92	3084.87	2.64	16.07	20.74	1.82
4030	2	7.99	117.5	118.59	0.015248	2.93	112.95	330.5	1.09	6.41	2.73	1.01
	5	17.16	117.5	119.28	0.016239	2.76	104.85	288.93	1.78	8.24	6.23	1.01
	10	22.91	117.5	119.46	0.015332	2.92	112.61	328.57	1.96	9.15	7.85	1.01
	25	29.71	117.5	119.65	0.014653	3.09	121.23	374.33	2.15	9.96	9.62	1
	50	36.97	117.5	119.81	0.014233	3.26	130.79	426.91	2.31	10.54	11.33	1.01
	100	43.67	117.5	119.95	0.013881	3.4	138	468.8	2.45	11.06	12.86	1.01
	Regional	134.41	117.5	121.14	0.011533	4.56	204.99	935.02	3.64	24.36	33.61	1
4005	2	7.99	117.25	118.33	0.041001	3.18	163.74	520.45	1.08	4.95	2.51	1.42
	5	17.16	117.25	118.64	0.0421	3.95	228.56	903.41	1.39	6.47	4.34	1.54
	10	22.91	117.25	118.82	0.035684	4.11	232.19	953.36	1.57	6.89	5.58	1.46
	25	29.71	117.25	119.03	0.029917	4.21	230.67	971.07	1.78	7.27	7.06	1.36
	50	36.97	117.25	119.24	0.02568	4.28	227.95	976.59	1.99	7.63	8.63	1.29
	100	43.67	117.25	119.44	0.022073	4.28	219.38	939.63	2.19	7.97	10.2	1.21
	Regional	134.41	117.25	121.33	0.007405	3.86	143.07	552.79	4.08	26.45	41.8	0.79
3969	2	7.99	117.51	118.38	0.012399	2.03	61.77	125.13	0.87	7.28	3.94	0.88
	5	17.16	117.51	118.84	0.008327	2.32	68.35	158.27	1.33	7.86	7.41	0.76
	10	22.91	117.51	119.05	0.008061	2.52	76.94	193.84	1.54	8.11	9.09	0.76
	25	29.71	117.51	119.27	0.00794	2.72	86.1	234.39	1.76	8.4	10.91	0.76
	50	36.97	117.51	119.47	0.008069	2.93	96.48	282.59	1.96	8.67	12.62	0.78
	100	43.67	117.51	119.63	0.008317	3.11	106.53	331.7	2.12	8.88	14.03	0.79
	Regional	134.41	117.51	121.25	0.006131	3.9	138.33	539.36	3.74	26.18	42.6	0.74
3930	2	7.99	117.19	118.33	0.005849	1.61	36.25	58.32	1.14	7.23	4.97	0.62
	5	17.16	117.19	118.81	0.005259	1.97	47.67	93.72	1.62	8.41	8.73	0.62
	10	22.91	117.19	119.03	0.005354	2.16	55.04	118.75	1.84	8.93	10.62	0.63
	25	29.71	117.19	119.26	0.005392	2.33	61.95	144.45	2.07	9.5	12.74	0.64
	50	36.97	117.19	119.48	0.005143	2.48	66.99	165.87	2.29	12.79	15.34	0.64
	100	43.67	117.19	119.66	0.004939	2.58	70.61	182.29	2.47	13.8	17.79	0.63
	Regional	134.41	117.19	121.29	0.00384	3.45	102.26	352.39	4.1	21.4	46.46	0.62
3907	2	7.99	117.16	118.35	0.00251	1.23	19.58	24.06	1.19	7.46	6.5	0.42
	5	17.16	117.16	118.83	0.003175	1.63	31.78	51.85	1.67	9.28	10.52	0.49
	10	22.91	117.16	119.05	0.003461	1.8	37.75	68.11	1.89	10.25	12.7	0.52
	25	29.71	117.16	119.29	0.003315	1.95	42.09	82.26	2.13	12.17	15.39	0.52
	50	36.97	117.16	119.52	0.003211	2.09	46.05	96.04	2.36	13.47	18.33	0.52
	100	43.67	117.16	119.7	0.003161	2.19	49.45	108.44	2.54	14.13	20.9	0.52
	Regional	134.41	117.16	121.34	0.002907	3.11	81.85	254.73	4.18	22.74	51.13	0.55
3891	2	7.99	117.18	118.25	0.005826	1.7	39.46	67.23	1.07	6.12	4.69	0.62
	5	17.16	117.18	118.74	0.006374	1.95	49.26	95.88	1.56	10.29	8.82	0.67
	10	22.91	117.18	118.99	0.005115	2.02	49.27	99.49	1.81	11.09	11.4	0.62
	25	29.71	117.18	119.24	0.004377	2.11	50.56	106.6	2.06	11.97	14.31	0.59
	50	36.97	117.18	119.47	0.003968	2.21	52.94	116.99	2.29	12.97	17.19	0.58
	100	43.67	117.18	119.66	0.003694	2.31	55.43	127.83	2.48	13.91	19.72	0.57
	Regional	134.41	117.18	121.27	0.003028	3.26	88.83	289.95	4.09	21.21	49.33	0.57
3877	2	7.99	117.16	118.29	0.002453	1.18	18.2	21.39	1.13	8.45	6.8	0.42
	5	17.16	117.16	118.78	0.002607	1.49	26.47	39.52	1.62	10.53	11.5	0.45
	10	22.91	117.16	119.02	0.002514	1.64	30.14	49.37	1.86	11.24	14.1	0.45
	25	29.71	117.16	119.27	0.002542	1.78	34.2	60.83	2.11	12.21	16.98	0.46
	50	36.97	117.16	119.5	0.002432	1.91	37.51	71.48	2.34	13.49	19.96	0.46
	100	43.67	117.16	119.69	0.002374	2.02	40.63	81.99	2.53	14.7	22.6	0.47
	Regional	134.41	117.16	121.31	0.002376	3.04	75.23	228.86	4.15	20.68	52.5	0.52
	2	7.99	117.18	118.22	0.004173	1.48	29.4	43.52	1.04	6.82	5.4	0.53
	5	17.16	117.18	118.66	0.005083	1.98	47.8	94.7	1.48	8.06	8.66	0.61

Reach 1												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
3854	10	22.91	117.18	118.88	0.005401	2.19	56.59	124.18	1.7	8.66	10.44	0.64
	25	29.71	117.18	119.1	0.00571	2.38	64.75	154.01	1.92	9.55	12.49	0.66
	50	36.97	117.18	119.33	0.005752	2.5	69.97	175.04	2.15	11.77	14.85	0.68
	100	43.67	117.18	119.52	0.005434	2.59	72.57	187.78	2.34	12.87	17.17	0.67
	Regional	134.41	117.18	121.1	0.004001	3.55	107.83	382.34	3.92	19.19	43.57	0.64
3828	2	7.99	117.18	117.98	0.015998	2.37	83.2	196.99	0.8	6	3.37	1.01
	5	17.16	117.18	118.37	0.014279	2.83	105.86	299.92	1.19	7.42	6.06	1
	10	22.91	117.18	118.56	0.013808	3.06	117.73	360.07	1.38	7.89	7.49	1
	25	29.71	117.18	118.75	0.013549	3.29	130.54	429.03	1.57	8.34	9.04	1.01
	50	36.97	117.18	118.94	0.01322	3.47	140.82	488.81	1.76	8.81	10.65	1.01
	100	43.67	117.18	119.1	0.012947	3.6	148.26	534.46	1.92	9.27	12.11	1.01
	Regional	134.41	117.18	120.61	0.009526	4.49	191.03	858.25	3.43	17.35	32.1	0.93
3803	2	7.99	117.21	117.81	0.02147	2.48	96	238.07	0.6	6.71	3.22	1.14
	5	17.16	117.21	118.1	0.022585	3.24	145.47	471.96	0.89	7.5	5.29	1.23
	10	22.91	117.21	118.26	0.022289	3.54	165.27	585.11	1.05	7.9	6.47	1.25
	25	29.71	117.21	118.42	0.021913	3.81	184.06	702.08	1.21	8.32	7.79	1.26
	50	36.97	117.21	118.58	0.021428	4.05	200.15	810.35	1.37	8.7	9.13	1.26
	100	43.67	117.21	118.71	0.020739	4.22	211.23	891.38	1.5	8.95	10.35	1.25
	Regional	134.41	117.21	120.17	0.013959	5.1	254.33	1297.56	2.96	13.67	26.73	1.11
3770	2	7.99	117.14	117.73	0.016972	2.08	69.55	144.71	0.59	8.85	3.84	1.01
	5	17.16	117.14	117.95	0.021263	2.94	123.82	364.46	0.81	9.3	5.83	1.19
	10	22.91	117.14	118.03	0.025713	3.46	165.81	574.42	0.89	9.47	6.61	1.32
	25	29.71	117.14	118.14	0.027678	3.88	200.34	777.79	1	9.69	7.65	1.4
	50	36.97	117.14	118.25	0.028152	4.21	227.03	955.33	1.11	9.91	8.79	1.43
	100	43.67	117.14	118.36	0.028053	4.45	246.31	1094.95	1.22	10.1	9.82	1.44
	Regional	134.41	117.14	119.51	0.021584	5.89	351.62	2070.29	2.37	14.19	23.19	1.36
3751	2	7.99	116.97	117.5	0.028556	2.47	102.36	252.64	0.53	8.55	3.24	1.28
	5	17.16	116.97	117.77	0.023585	3.07	135.52	416.4	0.8	8.93	5.58	1.24
	10	22.91	116.97	117.89	0.024311	3.44	161.62	555.63	0.92	9.11	6.66	1.28
	25	29.71	116.97	118.03	0.023753	3.73	181.38	676.03	1.06	9.38	7.97	1.29
	50	36.97	116.97	118.17	0.02365	4.01	201.92	808.97	1.2	9.61	9.23	1.31
	100	43.67	116.97	118.28	0.023366	4.22	217.84	919.9	1.31	9.76	10.34	1.31
	Regional	134.41	116.97	119.54	0.018915	5.54	310.93	1724.11	2.57	13.77	24.53	1.26
3730	2	7.99	116.91	117.61	0.006197	1.53	34.25	52.56	0.7	8.92	5.21	0.64
	5	17.16	116.91	117.91	0.007737	2.15	59.97	128.83	1	9.54	7.99	0.75
	10	22.91	116.91	118.05	0.00874	2.46	75.97	187.24	1.14	9.8	9.3	0.81
	25	29.71	116.91	118	0.017127	3.36	143.29	481.96	1.09	9.71	8.83	1.13
	50	36.97	116.91	118.11	0.019105	3.75	173.43	650.56	1.2	9.91	9.86	1.2
	100	43.67	116.91	118.22	0.019186	3.97	188.81	748.96	1.31	10.14	11.01	1.22
	Regional	134.41	116.91	119.31	0.021293	5.71	334.62	1910.47	2.4	13.06	23.54	1.36
3717	2	7.99	116.86	117.46	0.016733	2.08	69.04	143.28	0.6	8.93	3.85	1.01
	5	17.16	116.86	117.76	0.01469	2.57	91.84	235.59	0.9	10.13	6.69	1.01
	10	22.91	116.86	117.91	0.013999	2.78	102.25	284	1.05	10.63	8.25	1.01
	25	29.71	116.86	118.06	0.013419	2.99	112.84	337.06	1.2	11.05	9.95	1.01
	50	36.97	116.86	118.11	0.017617	3.52	154.4	543.3	1.25	11.17	10.51	1.16
	100	43.67	116.86	118.23	0.017077	3.68	163.85	602.92	1.37	11.45	11.87	1.15
	Regional	134.41	116.86	119.12	0.024095	5.83	355.94	2074.46	2.26	14.04	23.06	1.45
3701	2	7.99	116.71	117.2	0.037309	2.58	116.93	301.65	0.49	9.52	3.1	1.44
	5	17.16	116.71	117.41	0.034345	3.27	163.72	535.95	0.7	10.51	5.24	1.48
	10	22.91	116.71	117.52	0.032281	3.55	181.87	645.18	0.81	10.9	6.46	1.47
	25	29.71	116.71	117.64	0.031148	3.81	200.52	763.71	0.93	11.48	7.8	1.48
	50	36.97	116.71	118.32	0.005252	2.25	58.16	130.6	1.61	13.72	16.46	0.65
	100	43.67	116.71	118.52	0.004608	2.27	57.21	129.84	1.81	14.18	19.24	0.62
	Regional	134.41	116.71	120.31	0.002039	2.55	55.66	142.08	3.6	34.39	64.49	0.47

Reach 1												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
3689	2	7.99	116.53	117.32	0.010631	1.67	44.3	73.77	0.79	11.05	4.8	0.81
	5	17.16	116.53	117.6	0.00988	2.11	62.07	131	1.07	12.27	8.13	0.83
	10	22.91	116.53	117.82	0.007235	2.11	57.49	121.44	1.29	12.8	10.85	0.73
	25	29.71	116.53	118.08	0.00528	2.09	52.15	108.78	1.55	13.33	14.24	0.64
	50	36.97	116.53	118.32	0.004335	2.11	50.37	106.1	1.79	13.79	17.55	0.6
	100	43.67	116.53	118.52	0.003895	2.15	50.54	108.61	1.99	14.16	20.32	0.57
	Regional	134.41	116.53	120.24	0.002421	2.72	63.91	173.85	3.71	31.58	57.3	0.5
3679	2	7.99	116.45	117.34	0.005113	1.24	23.62	29.22	0.89	13.2	6.46	0.56
	5	17.16	116.45	117.65	0.004923	1.61	34.66	55.72	1.2	14.13	10.68	0.59
	10	22.91	116.45	117.86	0.003988	1.66	34.54	57.37	1.41	14.71	13.79	0.55
	25	29.71	116.45	118.12	0.003139	1.68	33.24	56.01	1.67	15.19	17.63	0.5
	50	36.97	116.45	118.36	0.002692	1.73	33.21	57.37	1.91	15.65	21.4	0.47
	100	43.67	116.45	118.56	0.002477	1.78	33.97	60.39	2.11	16.03	24.56	0.46
	Regional	134.41	116.45	120.28	0.002002	2.39	50.24	120.16	3.83	30.83	60.86	0.45
3669	2	7.99	116.31	117.33	0.004352	1.15	20.46	23.63	1.02	13.75	6.92	0.52
	5	17.16	116.31	117.64	0.004236	1.51	30.41	45.94	1.33	14.56	11.36	0.55
	10	22.91	116.31	117.86	0.00346	1.57	30.65	48.15	1.55	14.99	14.59	0.51
	25	29.71	116.31	118.12	0.002787	1.6	29.99	48.13	1.81	15.47	18.51	0.47
	50	36.97	116.31	118.37	0.002423	1.65	30.29	50.09	2.06	15.91	22.36	0.45
	100	43.67	116.31	118.57	0.002251	1.71	31.21	53.29	2.26	16.26	25.57	0.43
	Regional	134.41	116.31	120.28	0.00189	2.33	47.7	111.28	3.97	28.5	61.52	0.43
3658	2	7.99	116.35	117.17	0.018531	1.92	63.01	120.96	0.82	11.55	4.16	1.02
	5	17.16	116.35	117.45	0.013247	2.3	75.97	174.71	1.1	12.03	7.46	0.93
	10	22.91	116.35	117.74	0.007055	2.08	55.91	116.39	1.39	12.64	11	0.71
	25	29.71	116.35	118.02	0.005044	2.03	49.39	100.12	1.67	13.52	14.66	0.62
	50	36.97	116.35	118.28	0.004201	2.02	46.97	94.94	1.93	14.75	18.29	0.58
	100	43.67	116.35	118.49	0.003713	2.04	46.11	93.98	2.14	15.5	21.43	0.55
	Regional	134.41	116.35	120.22	0.002333	2.53	56.65	143.09	3.87	27.11	57.13	0.49
3648	2	7.99	116.34	117.02	0.029376	2.23	88.45	197.13	0.68	11.47	3.59	1.27
	5	17.16	116.34	117.49	0.006628	1.81	44.7	81	1.15	13.03	9.47	0.68
	10	22.91	116.34	117.77	0.004262	1.74	37.8	65.94	1.43	13.49	13.13	0.56
	25	29.71	116.34	118.04	0.003305	1.76	35.82	62.88	1.7	14	16.92	0.51
	50	36.97	116.34	118.3	0.002909	1.8	35.97	64.7	1.96	14.76	20.55	0.49
	100	43.67	116.34	118.5	0.002743	1.85	36.89	68.14	2.16	15.52	23.64	0.48
	Regional	134.41	116.34	120.24	0.001894	2.38	49.18	117.05	3.9	27.82	61.7	0.44
3638	2	7.99	116.31	116.82	0.038503	2.57	117.46	302.34	0.51	9.82	3.1	1.46
	5	17.16	116.31	117.49	0.004234	1.66	35.03	58.15	1.18	11.62	10.34	0.56
	10	22.91	116.31	117.76	0.003345	1.69	34	57.54	1.45	12.21	13.54	0.51
	25	29.71	116.31	118.03	0.002892	1.75	34.62	60.75	1.72	12.78	16.93	0.49
	50	36.97	116.31	118.28	0.002707	1.83	36.39	66.77	1.97	13.37	20.15	0.48
	100	43.67	116.31	118.48	0.002763	1.91	38.71	73.75	2.17	14.56	22.92	0.48
	Regional	134.41	116.31	120.21	0.00199	2.5	53.75	134.59	3.9	27.44	60.67	0.46
3628	2	7.99	116.28	116.93	0.011633	1.81	51.31	92.84	0.65	9.59	4.42	0.85
	5	17.16	116.28	117.47	0.004416	1.73	37.55	64.84	1.19	10.82	9.94	0.58
	10	22.91	116.28	117.74	0.003585	1.77	37.13	65.86	1.46	11.36	12.91	0.53
	25	29.71	116.28	118.01	0.003174	1.85	38.3	70.8	1.73	11.98	16.07	0.51
	50	36.97	116.28	118.25	0.002979	1.94	40.55	78.69	1.97	12.43	19.05	0.5
	100	43.67	116.28	118.45	0.002916	2.03	43.17	87.64	2.17	12.78	21.51	0.5
	Regional	134.41	116.28	120.14	0.002443	2.77	65.93	182.85	3.86	28.23	56.24	0.5
3612	2	7.99	116.06	116.94	0.004491	1.44	28.77	41.46	0.88	8.06	5.54	0.55
	5	17.16	116.06	117.45	0.003683	1.73	35.87	61.9	1.39	9.19	9.94	0.53
	10	22.91	116.06	117.7	0.003555	1.85	39.56	73.32	1.64	9.9	12.36	0.53
	25	29.71	116.06	117.96	0.003524	1.97	43.31	85.39	1.9	10.88	15.07	0.54

Reach 1												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
	50	36.97	116.06	118.2	0.003494	2.08	46.78	97.22	2.14	11.75	17.79	0.54
	100	43.67	116.06	118.4	0.003504	2.17	49.96	108.45	2.34	12.45	20.12	0.55
	Regional	134.41	116.06	120.08	0.002992	2.87	72.96	209.31	4.02	29.08	51.94	0.55
3597	2	7.99	115.85	116.94	0.002662	1.22	19.75	24.17	1.09	8.13	6.53	0.44
	5	17.16	115.85	117.45	0.002705	1.56	28.63	44.76	1.6	9.27	10.98	0.46
	10	22.91	115.85	117.71	0.00273	1.71	32.84	56.18	1.86	9.82	13.39	0.47
	25	29.71	115.85	117.97	0.002782	1.86	37.27	69.16	2.12	10.43	16.01	0.48
	50	36.97	115.85	118.2	0.002868	1.99	41.84	83.43	2.35	11	18.54	0.49
	100	43.67	115.85	118.39	0.002972	2.11	46.08	97.39	2.54	11.47	20.66	0.5
	Regional	134.41	115.85	120.02	0.003428	2.96	79.22	234.66	4.17	26.42	48.02	0.58
3577	2	7.99	115.68	116.91	0.003002	1.36	23.78	32.3	1.23	6.53	5.88	0.46
	5	17.16	115.68	117.37	0.003981	1.88	41.63	78.34	1.69	7.39	9.12	0.54
	10	22.91	115.68	117.6	0.004442	2.11	50.66	106.68	1.92	8.04	10.88	0.58
	25	29.71	115.68	117.84	0.004853	2.3	59.3	136.66	2.16	8.9	12.89	0.61
	50	36.97	115.68	118.06	0.005151	2.48	67.07	166.16	2.38	9.68	14.92	0.64
	100	43.67	115.68	118.23	0.005385	2.62	73.79	193.35	2.55	10.28	16.67	0.66
	Regional	134.41	115.68	119.84	0.005257	3.4	108.37	368.39	4.16	28.67	41.89	0.71
3562	2	7.99	115.75	116.9	0.002816	1.29	21.63	27.86	1.15	7.21	6.2	0.44
	5	17.16	115.75	117.38	0.00353	1.72	35.2	60.42	1.63	8.83	10	0.52
	10	22.91	115.75	117.62	0.003605	1.88	40.52	76.12	1.87	9.46	12.19	0.53
	25	29.71	115.75	117.86	0.003631	2.04	45.85	93.42	2.11	9.94	14.58	0.54
	50	36.97	115.75	118.09	0.003735	2.19	51.53	112.96	2.34	10.41	16.86	0.55
	100	43.67	115.75	118.26	0.003859	2.33	56.93	132.68	2.51	10.71	18.74	0.56
	Regional	134.41	115.75	119.86	0.003727	3.32	95.8	317.69	4.11	32.56	49.02	0.6
3553	2	7.99	115.68	116.89	0.003341	1.3	22.77	29.5	1.21	8.33	6.17	0.48
	5	17.16	115.68	117.38	0.003185	1.63	31.67	51.53	1.7	9.49	10.55	0.49
	10	22.91	115.68	117.62	0.003156	1.78	36.05	64.07	1.94	9.95	12.89	0.5
	25	29.71	115.68	117.87	0.003158	1.93	40.73	78.5	2.19	10.37	15.41	0.5
	50	36.97	115.68	118.09	0.003235	2.08	45.85	95.23	2.41	10.76	17.8	0.52
	100	43.67	115.68	118.27	0.003367	2.21	50.83	112.36	2.59	11.13	19.76	0.53
	Regional	134.41	115.68	119.94	0.002776	2.96	74.87	221.25	4.26	33.58	56.53	0.53
3545	2	7.99	115.65	116.92	0.001195	0.89	9.99	8.87	1.27	9.96	9	0.3
	5	17.16	115.65	117.42	0.001426	1.21	16.54	19.95	1.77	11.04	14.22	0.34
	10	22.91	115.65	117.66	0.001516	1.35	19.79	26.64	2.01	11.62	17.02	0.36
	25	29.71	115.65	117.92	0.001599	1.48	23.16	34.32	2.27	12.22	20.05	0.37
	50	36.97	115.65	118.15	0.001697	1.61	26.62	42.87	2.5	12.84	22.96	0.38
	100	43.67	115.65	118.34	0.001796	1.72	29.79	51.21	2.69	13.39	25.4	0.4
	Regional	134.41	115.65	120.03	0.001747	2.4	48.76	116.93	4.38	33.76	66.01	0.43
3534	2	7.99	115.64	116.92	0.001123	0.85	9.28	7.92	1.28	10.29	9.36	0.29
	5	17.16	115.64	117.41	0.001332	1.17	15.51	18.15	1.77	11.01	14.67	0.32
	10	22.91	115.64	117.66	0.001431	1.31	18.82	24.73	2.02	11.42	17.43	0.34
	25	29.71	115.64	117.91	0.001536	1.46	22.35	32.55	2.27	11.98	20.4	0.36
	50	36.97	115.64	118.15	0.001657	1.59	25.97	41.29	2.51	12.62	23.25	0.37
	100	43.67	115.64	118.33	0.001758	1.7	29.23	49.8	2.69	13.04	25.63	0.39
	Regional	134.41	115.64	120.01	0.001774	2.42	49.74	120.59	4.37	33.24	65.92	0.43
3525	2	7.99	115.74	116.88	0.002539	1.16	18.05	20.96	1.14	8.98	6.88	0.42
	5	17.16	115.74	117.36	0.002539	1.48	26.02	38.57	1.62	10.22	11.58	0.44
	10	22.91	115.74	117.6	0.002544	1.62	29.83	48.44	1.86	10.76	14.11	0.45
	25	29.71	115.74	117.85	0.002567	1.76	33.8	59.56	2.11	11.33	16.86	0.46
	50	36.97	115.74	118.08	0.002639	1.9	38	72.07	2.34	11.89	19.5	0.47
	100	43.67	115.74	118.26	0.002746	2.01	42	84.58	2.52	12.4	21.69	0.49
	Regional	134.41	115.74	119.97	0.002119	2.57	56.89	146.42	4.23	32.62	62.22	0.47
	2	7.99	115.71	116.88	0.001882	1.08	14.94	16.09	1.17	8.55	7.42	0.37

Reach 1												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
3516	5	17.16	115.71	117.36	0.002254	1.44	24.23	34.94	1.65	9.92	11.9	0.42
	10	22.91	115.71	117.6	0.002344	1.6	28.51	45.52	1.89	10.44	14.35	0.43
	25	29.71	115.71	117.85	0.002451	1.75	32.99	57.62	2.14	11.07	17.01	0.45
	50	36.97	115.71	118.08	0.002698	1.88	37.71	70.87	2.37	12.36	19.67	0.48
	100	43.67	115.71	118.26	0.002838	1.99	41.5	82.45	2.55	13.2	21.98	0.49
	Regional	134.41	115.71	119.97	0.00198	2.6	56.74	147.44	4.26	31.94	63.11	0.46
3507	2	7.99	115.68	116.88	0.001455	0.98	12.15	11.89	1.2	8.95	8.16	0.33
	5	17.16	115.68	117.37	0.001825	1.34	20.52	27.44	1.69	10.2	12.83	0.38
	10	22.91	115.68	117.61	0.001942	1.49	24.56	36.64	1.93	10.73	15.36	0.4
	25	29.71	115.68	117.86	0.002081	1.64	28.81	47.25	2.18	11.49	18.11	0.42
	50	36.97	115.68	118.08	0.00225	1.78	33.11	58.81	2.4	12.41	20.81	0.44
	100	43.67	115.68	118.26	0.002465	1.88	37.01	69.73	2.58	13.72	23.18	0.46
	Regional	134.41	115.68	119.97	0.001776	2.53	53.12	134.52	4.29	30.4	64.77	0.44
3481	2	7.99	115.53	116.87	0.001223	0.96	11.34	10.91	1.34	7.9	8.3	0.3
	5	17.16	115.53	117.34	0.001895	1.39	21.94	30.48	1.81	9.21	12.35	0.38
	10	22.91	115.53	117.58	0.002118	1.57	27.2	42.8	2.05	9.66	14.56	0.41
	25	29.71	115.53	117.82	0.002395	1.75	32.93	57.68	2.29	10.49	16.96	0.44
	50	36.97	115.53	118.04	0.002685	1.91	38.6	73.76	2.51	11.49	19.35	0.47
	100	43.67	115.53	118.21	0.002749	2.04	42.92	87.68	2.68	12.43	21.42	0.48
	Regional	134.41	115.53	119.85	0.002386	2.92	70.77	206.57	4.32	28.07	57.06	0.5
3453	2	7.99	115.43	116.86	0.001344	0.97	11.77	11.43	1.43	8.45	8.23	0.31
	5	17.16	115.43	117.33	0.002026	1.33	21	28.02	1.9	10.95	12.86	0.39
	10	22.91	115.43	117.57	0.002063	1.48	24.57	36.3	2.14	11.32	15.51	0.4
	25	29.71	115.43	117.81	0.002122	1.62	28.47	46.19	2.38	11.69	18.31	0.41
	50	36.97	115.43	118.03	0.002232	1.77	32.77	57.89	2.6	12.08	20.93	0.43
	100	43.67	115.43	118.21	0.002384	1.89	36.92	69.84	2.78	12.6	23.08	0.45
	Regional	134.41	115.43	119.88	0.001989	2.65	58.52	155.1	4.45	26.3	61.01	0.45
3427	2	7.99	115.6	116.84	0.001499	1.01	12.83	12.97	1.24	8.3	7.91	0.33
	5	17.16	115.6	117.3	0.00222	1.44	24.13	34.8	1.7	9.62	11.9	0.41
	10	22.91	115.6	117.53	0.002451	1.6	28.97	46.4	1.93	11.11	14.32	0.44
	25	29.71	115.6	117.77	0.002449	1.75	33.17	58.17	2.17	12.36	17.15	0.45
	50	36.97	115.6	117.99	0.00247	1.9	37.54	71.4	2.39	13.55	19.95	0.46
	100	43.67	115.6	118.16	0.002498	2.04	41.7	84.91	2.56	16.15	22.47	0.47
	Regional	134.41	115.6	119.82	0.002147	2.86	66.95	191.69	4.22	24.25	58.16	0.48
3407	2	7.99	115.96	116.64	0.012604	2.06	63.83	131.81	0.68	7.07	3.87	0.89
	5	17.16	115.96	116.99	0.012289	2.65	92.24	244.45	1.03	7.73	6.48	0.92
	10	22.91	115.96	117.19	0.01175	2.86	102.21	292.25	1.23	8.15	8.01	0.92
	25	29.71	115.96	117.4	0.011183	3.02	109.8	332.03	1.44	8.78	9.82	0.91
	50	36.97	115.96	117.62	0.01029	3.12	112.46	350.37	1.66	11.3	12.04	0.89
	100	43.67	115.96	117.8	0.009011	3.17	111.65	353.92	1.84	13.68	14.36	0.85
	Regional	134.41	115.96	119.68	0.003258	3.35	94.16	315.65	3.72	24.08	51.94	0.59
3391	2	7.99	115.67	116.6	0.011152	1.91	55.13	105.37	0.93	7.75	4.18	0.83
	5	17.16	115.67	117	0.008999	2.32	69.7	161.43	1.33	8.48	7.41	0.79
	10	22.91	115.67	117.21	0.008513	2.47	75.88	187.7	1.54	9.15	9.26	0.79
	25	29.71	115.67	117.44	0.00762	2.59	78.89	204.02	1.77	10.58	11.54	0.76
	50	36.97	115.67	117.67	0.006719	2.69	81.17	218.45	2	11.72	14	0.73
	100	43.67	115.67	117.85	0.00612	2.79	83.68	233.44	2.18	12.66	16.24	0.71
	Regional	134.41	115.67	119.39	0.00489	3.94	132.68	522.44	3.72	19.25	40.56	0.71
3364	2	7.99	115.59	116.41	0.016511	2.26	78.43	177.6	0.82	6.84	3.53	1.01
	5	17.16	115.59	116.77	0.014657	2.81	104.99	294.54	1.18	7.64	6.12	1
	10	22.91	115.59	116.95	0.014155	3.04	117.46	357.23	1.36	8.02	7.53	1
	25	29.71	115.59	117.13	0.013872	3.28	131.09	430.37	1.54	8.44	9.05	1.01
	50	36.97	115.59	117.32	0.013065	3.48	140.92	490.39	1.73	9.22	10.67	1
	100	43.67	115.59	117.48	0.012172	3.61	146.49	529.28	1.89	10.6	12.3	0.98

[illegible]

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
3220	2	7.99	114.91	115.42	0.018651	2.13	73.64	156.68	0.51	9.12	3.76	1.06
	5	17.16	114.91	115.7	0.016637	2.69	101.74	273.65	0.79	9.81	6.38	1.07
	10	22.91	114.91	115.88	0.014093	2.81	104.06	292.12	0.97	10.29	8.16	1.01
	25	29.71	114.91	116.04	0.013553	3.01	114.27	343.66	1.13	10.83	9.88	1.01
	50	36.97	114.91	116.19	0.013167	3.18	123.61	393.65	1.28	11.36	11.61	1.01
	100	43.67	114.91	116.33	0.012894	3.32	130.94	434.82	1.42	11.84	13.15	1.01
	Regional	134.41	114.91	117.6	0.011154	4.12	174.33	717.76	2.69	19.14	32.65	1.01
3206	2	7.99	114.58	115.17	0.036276	2.65	120.94	320.59	0.59	8.76	3.01	1.44
	5	17.16	114.58	115.39	0.038966	3.32	172.36	571.74	0.81	11.31	5.17	1.57
	10	22.91	114.58	115.48	0.038649	3.64	197.93	720.97	0.9	11.85	6.29	1.6
	25	29.71	114.58	115.59	0.037636	3.94	221.41	872.91	1	12.32	7.54	1.61
	50	36.97	114.58	115.69	0.036336	4.2	241.55	1015.16	1.11	12.69	8.8	1.61
	100	43.67	114.58	115.77	0.035219	4.4	257.14	1132.61	1.19	12.98	9.91	1.61
	Regional	134.41	114.58	117.85	0.003688	2.79	73.59	205.05	3.27	22.67	48.27	0.6
3196	2	7.99	114.51	115.33	0.004672	1.22	22.69	27.73	0.82	13	6.54	0.55
	5	17.16	114.51	115.69	0.00379	1.47	28.36	41.66	1.18	14.96	11.68	0.53
	10	22.91	114.51	115.87	0.003542	1.58	31.18	49.35	1.36	15.67	14.48	0.53
	25	29.71	114.51	116.06	0.003329	1.7	34.12	57.93	1.55	16.15	17.5	0.52
	50	36.97	114.51	116.24	0.003244	1.81	37.22	67.27	1.73	16.79	20.46	0.52
	100	43.67	114.51	116.4	0.003142	1.89	39.5	74.65	1.89	17.22	23.11	0.52
	Regional	134.41	114.51	117.89	0.002856	2.56	60.66	155.03	3.38	22.31	52.59	0.53
3179	2	7.99	114.5	115.13	0.016692	2.06	68.36	141	0.63	9.11	3.87	1.01
	5	17.16	114.5	115.43	0.014687	2.5	88.26	220.47	0.93	10.93	6.87	1.01
	10	22.91	114.5	115.57	0.013836	2.7	97.71	263.81	1.07	11.42	8.49	1
	25	29.71	114.5	115.73	0.01302	2.88	106.24	306.39	1.23	11.93	10.3	0.99
	50	36.97	114.5	115.91	0.011299	2.94	105.76	311.36	1.41	12.6	12.56	0.94
	100	43.67	114.5	116.07	0.010188	2.99	105.22	314.11	1.57	13.26	14.63	0.91
	Regional	134.41	114.5	117.58	0.005835	3.42	112.33	384.33	3.08	19.99	39.53	0.76
3159	2	7.99	114.32	114.96	0.024898	2.27	87.38	198.57	0.64	9.71	3.52	1.21
	5	17.16	114.32	115.4	0.008432	2.07	57.98	120.05	1.08	11.49	8.29	0.78
	10	22.91	114.32	115.59	0.007601	2.19	61.58	135.05	1.27	12.2	10.45	0.76
	25	29.71	114.32	115.78	0.007056	2.3	65.07	149.88	1.46	13.16	12.9	0.74
	50	36.97	114.32	115.97	0.006388	2.4	67.56	162.26	1.65	13.57	15.39	0.72
	100	43.67	114.32	116.12	0.005977	2.48	69.91	173.66	1.8	13.91	17.58	0.71
	Regional	134.41	114.32	117.57	0.004584	3.31	100.63	333.11	3.25	19.48	41.34	0.68
3132	2	7.99	114.06	114.96	0.009694	1.72	45.37	77.94	0.9	9.44	4.65	0.78
	5	17.16	114.06	115.36	0.007112	1.92	49.54	95.03	1.3	12.16	8.95	0.71
	10	22.91	114.06	115.56	0.006339	2	51.09	101.98	1.5	13.46	11.48	0.69
	25	29.71	114.06	115.76	0.005524	2.08	52.64	109.65	1.7	14.05	14.26	0.66
	50	36.97	114.06	115.96	0.005001	2.17	54.45	117.97	1.9	14.61	17.06	0.64
	100	43.67	114.06	116.12	0.004718	2.24	56.28	125.87	2.06	15.2	19.53	0.63
	Regional	134.41	114.06	117.61	0.003694	2.97	80.91	240.06	3.55	19.65	45.55	0.61
3103	2	7.99	113.72	114.73	0.016278	2.26	78.08	176.69	1.01	6.77	3.53	1
	5	17.16	113.72	115.09	0.014651	2.63	95.38	251.01	1.37	9.26	6.52	1
	10	22.91	113.72	115.28	0.013094	2.76	99.67	275.22	1.56	10.02	8.3	0.97
	25	29.71	113.72	115.54	0.009905	2.67	88.22	235.26	1.82	11.47	11.14	0.86
	50	36.97	113.72	115.75	0.008355	2.71	86.58	234.6	2.03	12.97	13.71	0.81
	100	43.67	113.72	115.91	0.0076	2.79	88.48	247.08	2.19	13.91	15.87	0.79
	Regional	134.41	113.72	116.95	0.009352	4.54	193.2	877.21	3.23	17.18	31.99	0.96
	2	7.99	113.42	114.65	0.002635	1.29	21.19	27.23	1.23	6.74	6.22	0.43
	5	17.16	113.42	115.09	0.003884	1.81	39.19	71.12	1.67	7.98	9.46	0.53

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
3065	10	22.91	113.42	115.33	0.004509	1.99	46.75	93.08	1.91	9.53	11.51	0.58
	25	29.71	113.42	115.55	0.004814	2.15	53.33	114.68	2.13	10.72	13.82	0.6
	50	36.97	113.42	115.75	0.004988	2.31	59.82	138.05	2.33	11.64	16.02	0.62
	100	43.67	113.42	115.91	0.004987	2.45	65.38	160.1	2.49	12.65	17.92	0.63
	Regional	134.41	113.42	116.77	0.010941	4.63	207.01	958.84	3.35	17.18	30.72	0.99
3026	2	7.99	113.31	114.62	0.002519	1.26	20.29	25.51	1.31	6.88	6.35	0.42
	5	17.16	113.31	115.06	0.003991	1.76	37.53	65.87	1.75	9.12	9.78	0.54
	10	22.91	113.31	115.29	0.004314	1.9	42.98	81.52	1.98	10.73	12.08	0.57
	25	29.71	113.31	115.52	0.004022	2.02	46.43	93.79	2.21	13.48	14.9	0.56
	50	36.97	113.31	115.73	0.003912	2.15	50.51	108.43	2.42	16.42	18	0.57
	100	43.67	113.31	115.9	0.003829	2.24	53.55	119.97	2.58	18.08	20.91	0.57
	Regional	134.41	113.31	116.27	0.017388	5.33	287.1	1530.85	2.96	20.16	28.14	1.24
3001	2	7.99	113.41	114.6	0.002468	1.24	19.87	24.72	1.19	7.07	6.42	0.42
	5	17.16	113.41	115.02	0.003719	1.79	38.11	68.37	1.61	8.06	9.56	0.53
	10	22.91	113.41	115.22	0.004332	2.03	47.57	96.45	1.81	8.88	11.3	0.57
	25	29.71	113.41	115.44	0.00485	2.23	56.52	126.17	2.03	15.36	13.42	0.62
	50	36.97	113.41	115.66	0.004478	2.31	58.22	134.33	2.25	20.32	17.72	0.6
	100	43.67	113.41	115.86	0.003991	2.31	56.72	131.1	2.45	21.42	21.84	0.58
	Regional	134.41	113.41	116.37	0.013361	4.87	234.67	1142.97	2.96	23.72	33.49	1.09
2978	2	7.99	113.44	114.53	0.004408	1.52	30.89	46.84	1.09	6.81	5.27	0.55
	5	17.16	113.44	114.91	0.00627	2.15	56.96	122.45	1.47	7.79	7.98	0.68
	10	22.91	113.44	115.08	0.007114	2.43	70.85	172.51	1.64	8.33	9.41	0.73
	25	29.71	113.44	115.27	0.008278	2.69	85.5	230.09	1.83	9.47	11.04	0.8
	50	36.97	113.44	115.43	0.009161	2.92	99.13	289.49	1.99	10.4	12.66	0.85
	100	43.67	113.44	115.56	0.009593	3.09	109.38	338.46	2.12	16.34	14.36	0.87
	Regional	134.41	113.44	116.62	0.007934	4.03	155.07	624.99	3.18	32.09	43.51	0.87
2966	2	7.99	113.4	114.35	0.016078	2.25	77.11	173.4	0.95	6.9	3.55	1
	5	17.16	113.4	114.7	0.014707	2.77	103.29	286.48	1.3	8.04	6.19	1.01
	10	22.91	113.4	114.88	0.013802	2.97	112.61	334.39	1.48	8.54	7.72	1
	25	29.71	113.4	115.25	0.008109	2.62	81.63	213.73	1.85	12.22	11.59	0.79
	50	36.97	113.4	115.43	0.007645	2.77	87.76	243.52	2.03	13.52	13.95	0.78
	100	43.67	113.4	115.57	0.007498	2.92	94.26	275.21	2.17	14.28	15.93	0.78
	Regional	134.41	113.4	116.66	0.006846	3.85	139.47	536.77	3.26	36.84	48.39	0.8
2944	2	7.99	113.37	114.08	0.026646	2.72	116.7	318	0.71	6.18	2.93	1.26
	5	17.16	113.37	114.47	0.018834	3.15	133.06	419.3	1.1	6.8	5.45	1.12
	10	22.91	113.37	114.71	0.014999	3.19	128.22	409.44	1.34	7.25	7.17	1.03
	25	29.71	113.37	114.94	0.014104	3.32	134.08	445.62	1.57	8.12	8.94	1.01
	50	36.97	113.37	115.2	0.012586	3.26	126.42	411.75	1.83	12.21	11.56	0.97
	100	43.67	113.37	115.35	0.011813	3.36	130.64	439.51	1.98	13.93	13.55	0.96
	Regional	134.41	113.37	116.69	0.006027	3.51	117.41	411.51	3.32	37.29	51.87	0.75
2898	2	7.99	113.28	113.89	0.017385	2.2	76.11	167.48	0.61	7.8	3.63	1.03
	5	17.16	113.28	114.07	0.028188	3.37	162.69	548.11	0.79	8.17	5.09	1.36
	10	22.91	113.28	114.18	0.030386	3.81	199.66	761.45	0.9	8.39	6.01	1.44
	25	29.71	113.28	114.31	0.030163	4.15	226.46	940.42	1.03	8.66	7.15	1.46
	50	36.97	113.28	114.46	0.029025	4.38	243.02	1064.66	1.18	9.1	8.44	1.45
	100	43.67	113.28	114.59	0.02742	4.52	251.33	1136.7	1.31	9.45	9.66	1.43
	Regional	134.41	113.28	116.34	0.008087	3.79	142.28	539.75	3.06	35.44	39.14	0.87
	2	7.99	113.31	113.69	0.035497	2.45	106.98	262.27	0.38	10.31	3.26	1.39
	5	17.16	113.31	113.85	0.042061	3.44	185.28	636.76	0.54	10.69	4.99	1.61
	10	22.91	113.31	113.93	0.045282	3.91	228.98	895.19	0.62	10.88	5.86	1.7

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
2880	25	29.71	113.31	114.03	0.046825	4.33	269.36	1167.01	0.72	11.14	6.86	1.76
	50	36.97	113.31	114.12	0.046387	4.65	299.1	1391.69	0.81	11.46	7.95	1.78
	100	43.67	113.31	114.21	0.045415	4.89	320.14	1564.21	0.9	11.76	8.94	1.79
	Regional	134.41	113.31	115.27	0.026984	5.64	348.37	1963.98	1.96	16.85	23.84	1.51
2854	2	7.99	113.32	113.76	0.010875	1.5	37.99	56.88	0.44	14.84	5.34	0.8
	5	17.16	113.32	113.94	0.013995	2.13	68.85	146.92	0.62	15.8	8.04	0.96
	10	22.91	113.32	113.94	0.023826	2.81	118.64	332.99	0.62	15.84	8.16	1.25
	25	29.71	113.32	113.98	0.031832	3.38	168.35	568.61	0.66	16.06	8.8	1.46
	50	36.97	113.32	114.03	0.037727	3.85	213.9	823.81	0.71	16.32	9.6	1.6
	100	43.67	113.32	114.08	0.041737	4.22	251.26	1059.33	0.76	16.57	10.36	1.7
	Regional	134.41	113.32	114.75	0.037649	6.05	421.19	2549.31	1.43	18.72	22.21	1.77
2821	2	7.99	112.89	113.59	0.018079	1.68	51.12	85.72	0.7	16.28	4.77	0.99
	5	17.16	112.89	113.78	0.015941	2.15	71.86	154.38	0.89	17.04	7.99	1
	10	22.91	112.89	113.88	0.015052	2.34	80.76	189.37	0.99	17.47	9.77	1
	25	29.71	112.89	113.99	0.01464	2.54	90.35	229.35	1.1	18.17	11.7	1.01
	50	36.97	112.89	114.08	0.015268	2.77	104.13	288.56	1.19	18.72	13.34	1.05
	100	43.67	112.89	114.17	0.015118	2.92	112.49	328.77	1.28	19.19	14.94	1.06
	Regional	134.41	112.89	114.61	0.03707	5.46	359.55	1963.46	1.72	24.28	24.61	1.73
2780	2	7.99	112.36	113.39	0.008201	1.35	30.34	40.98	1.03	15.04	5.92	0.69
	5	17.16	112.36	113.6	0.009296	1.78	47.4	84.44	1.24	17.69	9.63	0.77
	10	22.91	112.36	113.7	0.009649	2.01	57.37	115.33	1.34	17.87	11.4	0.8
	25	29.71	112.36	113.62	0.024682	2.97	130.28	386.97	1.26	17.73	10	1.26
	50	36.97	112.36	113.72	0.023015	3.16	140.27	442.8	1.36	17.9	11.71	1.25
	100	43.67	112.36	113.8	0.022038	3.32	149.32	495.01	1.44	18.05	13.17	1.24
	Regional	134.41	112.36	114.79	0.013216	4.2	187.7	789.21	2.43	20.31	31.97	1.07
2760	2	7.99	112.36	113.23	0.018422	1.82	57.85	105.01	0.87	13.32	4.4	1.01
	5	17.16	112.36	113.46	0.016396	2.11	70.34	148.29	1.1	18.03	8.14	1
	10	22.91	112.36	113.56	0.015525	2.31	79.62	183.99	1.2	18.31	9.91	1
	25	29.71	112.36	113.66	0.014746	2.5	88.71	222.21	1.3	18.62	11.86	1
	50	36.97	112.36	113.77	0.014131	2.68	97.07	260.02	1.41	18.92	13.8	1
	100	43.67	112.36	113.85	0.01371	2.82	104.02	293.26	1.49	19.18	15.49	1
	Regional	134.41	112.36	114.57	0.016845	4.46	217.56	969.35	2.21	21.61	30.17	1.2
2729	2	7.99	112.22	112.76	0.052818	2.6	128.73	334.15	0.54	12.22	3.08	1.65
	5	17.16	112.22	112.94	0.049114	3.03	159.17	481.77	0.72	16.89	5.67	1.67
	10	22.91	112.22	113.02	0.044468	3.27	174.49	570.86	0.8	17.19	7	1.64
	25	29.71	112.22	113.1	0.04075	3.51	189.35	663.78	0.88	17.54	8.48	1.61
	50	36.97	112.22	113.68	0.005061	1.93	45.77	88.14	1.46	20.22	19.2	0.63
	100	43.67	112.22	113.82	0.004772	1.96	46.3	90.73	1.6	21.87	22.28	0.62
	Regional	134.41	112.22	115.01	0.003304	2.59	63.99	165.41	2.79	30.19	53.75	0.58
2695	2	7.99	112	112.59	0.015045	2.01	63.96	128.4	0.59	8.92	3.98	0.96
	5	17.16	112	112.93	0.012199	2.3	74.51	171.5	0.93	11.53	7.46	0.91
	10	22.91	112	113.12	0.01062	2.33	73.18	170.3	1.12	13.47	9.84	0.87
	25	29.71	112	113.35	0.008749	2.24	65.63	146.71	1.35	16.72	13.29	0.8
	50	36.97	112	113.56	0.006856	2.17	59.01	127.97	1.56	18.7	17.05	0.73
	100	43.67	112	113.72	0.006031	2.17	57.15	123.95	1.72	20.08	20.14	0.69
	Regional	134.41	112	114.99	0.003144	2.59	63.53	164.79	2.99	44.24	60.41	0.57
2659	2	7.99	111.68	112.49	0.010504	1.76	48.12	84.84	0.81	9.45	4.53	0.81
	5	17.16	111.68	112.86	0.008359	2.02	55.55	111.94	1.18	12.19	8.51	0.77
	10	22.91	111.68	113.07	0.00727	2.01	53.61	108.01	1.39	14.69	11.37	0.73
	25	29.71	111.68	113.31	0.00549	1.96	47.82	93.53	1.63	17.69	15.21	0.65
	50	36.97	111.68	113.54	0.004174	1.94	44.02	85.3	1.86	21.96	19.71	0.59
	100	43.67	111.68	113.7	0.003659	1.97	43.64	85.92	2.02	24.64	23.49	0.56
	Regional	134.41	111.68	115.04	0.001917	2.31	47.18	109	3.36	46.24	77.45	0.46

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
2630	2	7.99	111.5	112.29	0.016794	2.14	72.14	154.07	0.79	8.23	3.74	1.01
	5	17.16	111.5	112.6	0.014898	2.64	96.39	254.74	1.1	9.32	6.49	1.01
	10	22.91	111.5	112.82	0.011523	2.68	92.24	247.1	1.32	9.79	8.55	0.92
	25	29.71	111.5	113.05	0.0096	2.72	90.19	245.36	1.55	10.56	10.92	0.85
	50	36.97	111.5	113.26	0.008742	2.79	91.26	254.19	1.76	17.02	13.62	0.83
	100	43.67	111.5	113.46	0.007012	2.72	83.53	227.51	1.96	19.65	17.44	0.76
	Regional	134.41	111.5	114.88	0.003418	2.89	76.2	220.06	3.38	35.26	60.31	0.59
2602	2	7.99	111.32	112.18	0.00498	1.56	33.32	52.08	0.86	6.76	5.11	0.57
	5	17.16	111.32	112.61	0.005921	2.11	54.74	115.71	1.29	7.46	8.12	0.65
	10	22.91	111.32	112.8	0.006639	2.39	67.8	162.17	1.48	7.9	9.58	0.69
	25	29.71	111.32	112.99	0.007753	2.65	82.13	217.52	1.67	9.01	11.22	0.76
	50	36.97	111.32	113.14	0.008983	2.92	98.69	288.3	1.82	13.72	12.93	0.82
	100	43.67	111.32	113.25	0.010455	3.16	115.07	363.04	1.93	16.23	14.51	0.89
	Regional	134.41	111.32	114.65	0.005689	3.44	112.6	387.54	3.33	30.54	48.18	0.73
2564	2	7.99	111.22	112.05	0.007984	1.85	48.17	88.95	0.83	6.56	4.33	0.73
	5	17.16	111.22	112.47	0.008672	2.34	70.28	164.67	1.25	8.12	7.32	0.79
	10	22.91	111.22	112.68	0.008659	2.5	77.52	193.95	1.46	9.17	9.16	0.8
	25	29.71	111.22	112.9	0.008879	2.62	83.45	218.4	1.68	10.87	11.35	0.82
	50	36.97	111.22	113.05	0.009479	2.84	95.69	271.4	1.83	12.55	13.07	0.85
	100	43.67	111.22	113.13	0.010706	3.13	114.53	358.77	1.91	12.91	14.04	0.92
	Regional	134.41	111.22	114.35	0.007441	3.99	150.36	600.09	3.13	30.86	41.9	0.85
2535	2	7.99	111.07	112	0.00734	1.74	43.07	74.87	0.93	7.23	4.6	0.7
	5	17.16	111.07	112.43	0.007075	2.16	58.93	127	1.36	8.61	7.96	0.72
	10	22.91	111.07	112.64	0.007005	2.31	65.24	150.75	1.57	9.56	9.92	0.72
	25	29.71	111.07	112.87	0.007112	2.44	70.94	172.88	1.8	11.01	12.19	0.74
	50	36.97	111.07	113	0.008129	2.69	85.06	228.82	1.93	11.85	13.74	0.8
	100	43.67	111.07	113.05	0.010219	3.04	108	327.89	1.98	12.3	14.38	0.9
	Regional	134.41	111.07	113.72	0.017557	5.12	271.11	1389.19	2.65	34.04	32.66	1.25
2498	2	7.99	111.04	111.75	0.015916	2.33	81.26	189.58	0.71	6.26	3.43	1.01
	5	17.16	111.04	112.14	0.014133	2.81	104.55	294.26	1.1	7.55	6.1	1
	10	22.91	111.04	112.32	0.013728	3.02	115.59	349.55	1.28	8.19	7.58	1
	25	29.71	111.04	112.53	0.013217	3.16	122.1	385.4	1.49	9.26	9.41	1
	50	36.97	111.04	112.81	0.010029	3	105.63	316.97	1.77	21.78	13.25	0.89
	100	43.67	111.04	113.01	0.007552	2.84	90.57	257.18	1.97	31.04	18.82	0.79
	Regional	134.41	111.04	113.45	0.021352	5.49	315.4	1730.33	2.41	37.71	33.68	1.37
2469	2	7.99	110.86	111.68	0.008168	1.76	45.15	79.57	0.82	7.7	4.53	0.73
	5	17.16	110.86	112.13	0.006465	2.05	53.46	109.62	1.27	9.35	8.37	0.69
	10	22.91	110.86	112.35	0.006052	2.17	57.44	124.92	1.49	12.09	10.65	0.68
	25	29.71	110.86	112.57	0.005266	2.28	59.39	135.16	1.71	21.07	14.19	0.66
	50	36.97	110.86	112.77	0.004569	2.34	59.84	140.15	1.91	28.87	19.04	0.63
	100	43.67	110.86	112.94	0.003877	2.33	57.02	132.93	2.08	33.84	24.52	0.59
	Regional	134.41	110.86	113.93	0.003721	3.15	88.57	278.81	3.07	48.77	66.58	0.63
2442	2	7.99	110.46	111.44	0.015914	2.4	84.53	202.45	0.98	5.77	3.34	1.01
	5	17.16	110.46	111.84	0.01446	2.83	105.83	299.18	1.38	7.91	6.08	1.01
	10	22.91	110.46	112.03	0.01327	3.02	114.16	344.32	1.57	9.1	7.72	0.99
	25	29.71	110.46	112.23	0.012316	3.18	121.21	385.25	1.77	11.69	9.79	0.98
	50	36.97	110.46	112.45	0.009825	3.2	115.77	370.58	1.99	16.24	12.95	0.9
	100	43.67	110.46	112.67	0.007456	3.1	102.99	319.26	2.21	25.63	17.63	0.8
	Regional	134.41	110.46	113.66	0.006332	3.99	144.42	576.4	3.2	47.54	54.81	0.81
	2	7.99	110.34	110.77	0.080368	3.76	248.79	934.28	0.43	6.61	2.13	2.11
	5	17.16	110.34	111.01	0.063748	4.43	300.5	1330.23	0.67	7.83	3.88	2.01
	10	22.91	110.34	111.14	0.059815	4.71	324.59	1528.8	0.8	8.5	4.86	1.99

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
2420	25	29.71	110.34	111.26	0.053776	4.96	341.64	1694.76	0.92	8.87	5.99	1.93
	50	36.97	110.34	111.4	0.048572	5.15	352.36	1814.87	1.06	9.25	7.18	1.87
	100	43.67	110.34	111.51	0.04433	5.28	357.38	1886.67	1.17	9.52	8.27	1.81
	Regional	134.41	110.34	113	0.012531	4.89	232.17	1134.87	2.66	33.69	34.7	1.09
2408	2	7.99	110.2	110.64	0.058735	3.22	182.76	588.74	0.44	7.69	2.48	1.81
	5	17.16	110.2	110.84	0.059757	4.24	277	1173.95	0.64	8.33	4.05	1.94
	10	22.91	110.2	110.95	0.057283	4.61	310.9	1433.16	0.75	8.68	4.97	1.95
	25	29.71	110.2	111.06	0.05486	4.96	342.8	1698.67	0.86	9.04	6	1.94
	50	36.97	110.2	111.19	0.050683	5.19	359.77	1865.65	0.99	9.4	7.13	1.9
	100	43.67	110.2	111.29	0.047754	5.36	372.25	1994.37	1.09	9.75	8.15	1.87
	Regional	134.41	110.2	112.76	0.014697	5.12	258.93	1325.4	2.56	27.99	30.45	1.17
2400	2	7.99	110.16	110.59	0.046352	2.84	142.66	405.28	0.43	8.86	2.81	1.61
	5	17.16	110.16	110.74	0.060529	4.03	257.2	1035.25	0.58	9.66	4.26	1.93
	10	22.91	110.16	110.83	0.062515	4.49	305.38	1370.86	0.67	10.02	5.1	2.01
	25	29.71	110.16	110.92	0.063642	4.92	352.44	1735.57	0.76	10.4	6.03	2.07
	50	36.97	110.16	111.02	0.060394	5.22	379.9	1983.97	0.86	10.69	7.08	2.05
	100	43.67	110.16	111.11	0.057302	5.44	398.48	2167.19	0.95	10.92	8.03	2.02
	Regional	134.41	110.16	113.4	0.003416	3.05	82.61	251.8	3.24	49.43	57.15	0.59
2387	2	7.99	110.09	110.75	0.0113	1.74	47.94	83.29	0.66	10.44	4.6	0.84
	5	17.16	110.09	111.15	0.006509	1.85	45.78	84.56	1.06	12.6	9.29	0.69
	10	22.91	110.09	111.36	0.005603	1.91	46.43	88.76	1.27	13.76	11.98	0.65
	25	29.71	110.09	111.57	0.00481	1.97	46.93	92.68	1.48	14.54	15.04	0.62
	50	36.97	110.09	111.06	0.044154	4.52	283.08	1280.17	0.97	12.19	8.17	1.76
	100	43.67	110.09	111.13	0.044954	4.8	311.31	1495.46	1.04	12.53	9.09	1.8
	Regional	134.41	110.09	113.46	0.002412	2.62	60.27	157.78	3.37	51.54	66.08	0.5
2373	2	7.99	109.96	110.61	0.016665	2.11	70.85	149.68	0.65	8.49	3.78	1.01
	5	17.16	109.96	110.92	0.014638	2.62	94.9	248.94	0.96	9.48	6.54	1.01
	10	22.91	109.96	111.07	0.013984	2.84	105.64	299.95	1.11	9.97	8.07	1.01
	25	29.71	109.96	111.24	0.013426	3.04	115.94	352.65	1.28	10.49	9.77	1.01
	50	36.97	109.96	111.4	0.012575	3.22	124.08	399.16	1.44	11.4	11.53	0.99
	100	43.67	109.96	111.53	0.012109	3.37	131.8	444.2	1.57	12.12	13.1	0.99
	Regional	134.41	109.96	113.07	0.005568	3.79	129.44	490.61	3.11	48.67	47.15	0.76
2364	2	7.99	109.9	110.45	0.0282	2.51	104.86	263.56	0.55	8.21	3.18	1.29
	5	17.16	109.9	110.72	0.023822	3.07	135.96	417.94	0.82	9.27	5.58	1.26
	10	22.91	109.9	110.86	0.022387	3.31	149.88	496.77	0.96	9.72	6.91	1.25
	25	29.71	109.9	111.01	0.021575	3.54	163.68	578.87	1.11	10.38	8.4	1.26
	50	36.97	109.9	111.15	0.021193	3.75	177.92	667.23	1.25	10.97	9.86	1.26
	100	43.67	109.9	111.26	0.021224	3.93	190.96	750.54	1.36	11.52	11.11	1.28
	Regional	134.41	109.9	112.37	0.015905	5.01	255.56	1279.81	2.47	24.9	28.02	1.21
2355	2	7.99	109.78	110.25	0.055489	2.8	145.86	408.12	0.47	10.54	2.86	1.72
	5	17.16	109.78	110.43	0.051046	3.61	209	753.67	0.65	11.19	4.76	1.77
	10	22.91	109.78	110.52	0.047802	3.93	233.5	916.57	0.74	11.45	5.84	1.76
	25	29.71	109.78	110.63	0.044705	4.22	256.01	1080.5	0.85	11.71	7.04	1.74
	50	36.97	109.78	110.73	0.041815	4.47	274.65	1228.36	0.95	11.91	8.27	1.71
	100	43.67	109.78	110.82	0.039669	4.67	289	1349.03	1.04	12.08	9.36	1.69
	Regional	134.41	109.78	111.83	0.024481	5.84	358.6	2094.76	2.05	17.7	24.03	1.47
2342	2	7.99	109.44	110.18	0.033205	2.25	92.72	208.94	0.74	11.9	3.55	1.32
	5	17.16	109.44	110.31	0.050808	3.23	176.85	570.96	0.87	14.31	5.32	1.69
	10	22.91	109.44	110.37	0.05509	3.69	220.76	815.23	0.93	14.47	6.2	1.8
	25	29.71	109.44	110.44	0.058437	4.15	266.56	1105.28	1	14.64	7.17	1.89
	50	36.97	109.44	110.51	0.058846	4.51	302.64	1364.08	1.07	14.83	8.2	1.94
	100	43.67	109.44	110.57	0.05803	4.77	328.51	1567.6	1.13	14.99	9.15	1.95
	Regional	134.41	109.44	111.29	0.047576	6.38	483.03	3080.68	1.85	18.95	21.07	1.93

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
2332	2	7.99	108.96	109.32	0.216033	4.12	365.8	1506.26	0.36	10.98	1.94	3.13
	5	17.16	108.96	109.47	0.139565	4.63	390.58	1807.08	0.51	12.63	3.71	2.73
	10	22.91	108.96	109.54	0.124571	4.94	419.14	2071.48	0.58	13.12	4.64	2.66
	25	29.71	108.96	109.61	0.121727	5.27	458.32	2413.51	0.65	14.29	5.64	2.68
	50	36.97	108.96	109.68	0.129065	5.55	503.51	2795.57	0.72	16.32	6.66	2.78
	100	43.67	108.96	109.73	0.121262	5.79	528.52	3062.45	0.77	16.5	7.54	2.74
	Regional	134.41	108.96	110.34	0.073262	7.39	671.59	4965.41	1.38	18.66	18.18	2.39
2314	2	7.99	108.87	109.77	0.002905	0.91	12.84	11.62	0.9	19.31	8.83	0.43
	5	17.16	108.87	110.04	0.003046	1.22	20.3	24.74	1.17	20.32	14.08	0.47
	10	22.91	108.87	110.17	0.00307	1.36	23.87	32.38	1.3	20.83	16.89	0.48
	25	29.71	108.87	110.32	0.003062	1.49	27.34	40.62	1.45	21.41	20	0.49
	50	36.97	108.87	110.47	0.003058	1.6	30.45	48.61	1.6	22.17	23.16	0.5
	100	43.67	108.87	110.59	0.003186	1.68	33.13	55.55	1.72	23.85	26.04	0.51
	Regional	134.41	108.87	110.32	0.062484	6.71	558.35	3748.07	1.45	21.41	20.02	2.22
2276	2	7.99	108.97	109.59	0.016026	1.7	50.47	85.62	0.62	14.37	4.71	0.95
	5	17.16	108.97	109.88	0.009369	1.81	48.84	88.63	0.91	17.26	9.46	0.78
	10	22.91	108.97	110	0.008615	1.97	54.05	106.43	1.03	17.56	11.64	0.77
	25	29.71	108.97	110.14	0.007951	2.11	58.9	124.45	1.17	17.88	14.06	0.76
	50	36.97	108.97	110.27	0.007516	2.25	63.77	143.42	1.3	18.16	16.44	0.75
	100	43.67	108.97	110.38	0.007243	2.36	67.98	160.52	1.41	18.39	18.49	0.75
	Regional	134.41	108.97	111.53	0.005329	3.18	98.58	313.92	2.56	33.38	46.41	0.71
2259	2	7.99	108.93	109.51	0.013435	1.71	48.75	83.21	0.58	12.31	4.68	0.88
	5	17.16	108.93	109.81	0.01029	1.88	52.77	99.27	0.88	16.83	9.12	0.82
	10	22.91	108.93	109.96	0.008719	1.99	55.13	109.77	1.03	17.12	11.51	0.78
	25	29.71	108.93	110.1	0.007939	2.13	59.53	126.72	1.17	17.41	13.96	0.76
	50	36.97	108.93	110.23	0.007579	2.27	64.89	147.46	1.3	17.68	16.27	0.76
	100	43.67	108.93	110.34	0.00741	2.39	69.82	167.22	1.41	17.94	18.23	0.76
	Regional	134.41	108.93	111.49	0.005453	3.2	99.67	318.47	2.56	31.87	45.49	0.72
2217	2	7.99	108.73	109.47	0.004752	1.24	23.17	28.65	0.74	12.78	6.46	0.56
	5	17.16	108.73	109.75	0.005513	1.68	38	63.73	1.02	14.21	10.23	0.63
	10	22.91	108.73	109.88	0.006105	1.88	46.18	86.71	1.15	15.43	12.2	0.67
	25	29.71	108.73	110.01	0.00632	2.07	53.99	111.85	1.28	15.98	14.34	0.7
	50	36.97	108.73	110.14	0.006572	2.25	61.86	139.41	1.41	16.55	16.4	0.72
	100	43.67	108.73	110.24	0.006842	2.41	69.18	166.88	1.51	16.97	18.1	0.75
	Regional	134.41	108.73	111.23	0.007559	3.66	132.72	486.09	2.5	28.99	38.62	0.86
2183	2	7.99	108.71	109.44	0.003437	1.06	16.98	18	0.73	14.77	7.54	0.47
	5	17.16	108.71	109.73	0.003899	1.37	25.82	35.46	1.02	18.2	12.5	0.53
	10	22.91	108.71	109.87	0.00392	1.52	29.97	45.42	1.16	19.03	15.12	0.54
	25	29.71	108.71	110.02	0.003892	1.65	34.07	56.3	1.31	19.71	17.98	0.55
	50	36.97	108.71	110.16	0.003891	1.78	38.19	68.11	1.45	20.2	20.73	0.56
	100	43.67	108.71	110.27	0.003946	1.9	42.11	79.96	1.56	20.56	23	0.57
	Regional	134.41	108.71	111.35	0.004051	2.86	78.5	224.77	2.64	26.86	48.26	0.64
2157	2	7.99	108.72	109.26	0.017395	1.86	59.06	109.73	0.54	12.32	4.3	1
	5	17.16	108.72	109.5	0.015654	2.26	77.11	174.17	0.78	14.93	7.6	1.01
	10	22.91	108.72	109.62	0.014538	2.43	84.62	205.87	0.9	15.62	9.42	1
	25	29.71	108.72	109.74	0.013911	2.61	93.18	243.53	1.02	16.35	11.37	1
	50	36.97	108.72	109.86	0.013646	2.75	100.13	275.43	1.14	17.64	13.44	1.01
	100	43.67	108.72	109.96	0.013133	2.85	104.83	299.22	1.24	18.45	15.3	1
	Regional	134.41	108.72	111.16	0.006314	3.32	109.67	364.47	2.44	25.45	41.78	0.79
	2	7.99	108.63	109.07	0.0259	2.01	73.32	147.26	0.44	13.69	3.98	1.19
	5	17.16	108.63	109.46	0.007308	1.77	44.22	78.27	0.83	15.39	9.69	0.71
	10	22.91	108.63	109.61	0.006717	1.9	48.32	92.03	0.98	15.98	12.03	0.7

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
2132	25	29.71	108.63	109.74	0.006726	2.08	55.26	115.06	1.11	16.53	14.27	0.72
	50	36.97	108.63	109.86	0.007058	2.28	64.02	145.9	1.23	16.96	16.22	0.74
	100	43.67	108.63	109.95	0.007446	2.46	72.72	178.81	1.32	17.18	17.76	0.77
	Regional	134.41	108.63	110.79	0.010948	4.05	169.02	683.82	2.16	19.92	33.22	1
2098	2	7.99	108.4	109.1	0.003506	1.14	18.96	21.56	0.7	12.49	7.02	0.48
	5	17.16	108.4	109.44	0.00378	1.49	28.93	43.08	1.04	14.38	11.52	0.53
	10	22.91	108.4	109.58	0.004207	1.68	35.46	59.41	1.18	15.49	13.67	0.57
	25	29.71	108.4	109.72	0.004574	1.88	43.02	80.85	1.32	16.53	15.83	0.6
	50	36.97	108.4	109.83	0.004946	2.1	51.65	108.24	1.43	17.59	17.75	0.64
	100	43.67	108.4	109.92	0.00535	2.29	60.26	138.1	1.52	18.49	19.3	0.67
	Regional	134.41	108.4	110.6	0.010265	4.31	182.62	786.31	2.2	26.19	34.44	1.01
2036	2	7.99	108.32	108.97	0.00707	1.42	31.59	44.92	0.65	12.19	5.62	0.67
	5	17.16	108.32	109.33	0.004901	1.63	35.32	57.53	1.01	16.55	10.68	0.6
	10	22.91	108.32	109.47	0.004904	1.82	41.82	76.23	1.15	20.25	13.16	0.62
	25	29.71	108.32	109.6	0.004977	2.02	48.85	98.54	1.28	22.6	16.05	0.64
	50	36.97	108.32	109.72	0.00516	2.21	56.45	124.63	1.4	23.68	18.74	0.66
	100	43.67	108.32	109.81	0.005345	2.37	63.29	149.91	1.49	24.15	20.98	0.68
	Regional	134.41	108.32	110.7	0.006434	3.74	131.35	490.8	2.38	27.42	43.9	0.82
1983	2	7.99	108.09	108.89	0.004693	1.26	23.9	30.22	0.8	11.85	6.32	0.55
	5	17.16	108.09	109.28	0.003962	1.48	29.11	43.18	1.19	20.53	11.85	0.54
	10	22.91	108.09	109.42	0.003823	1.64	33.4	54.63	1.33	22.32	14.97	0.55
	25	29.71	108.09	109.56	0.003847	1.8	38.7	69.77	1.47	23.77	18.16	0.56
	50	36.97	108.09	109.68	0.004029	1.98	45.07	89.22	1.59	25.35	21.05	0.58
	100	43.67	108.09	109.77	0.00424	2.14	51.17	109.32	1.68	28.63	23.57	0.61
	Regional	134.41	108.09	110.77	0.004071	3.09	87.9	271.18	2.68	37	56.78	0.66
1939	2	7.99	107.94	108.71	0.010104	1.82	49.86	90.59	0.77	8.53	4.4	0.81
	5	17.16	107.94	108.98	0.01383	2.43	83.21	201.87	1.04	13.06	7.18	0.98
	10	22.91	107.94	109.15	0.012622	2.45	82.46	201.89	1.21	18.93	9.89	0.95
	25	29.71	107.94	109.27	0.011969	2.65	91.73	243.26	1.33	20.28	12.2	0.95
	50	36.97	107.94	109.41	0.010237	2.73	92.16	251.67	1.47	25.15	15.46	0.9
	100	43.67	107.94	109.51	0.009628	2.84	96.06	272.4	1.57	26.16	18.07	0.89
	Regional	134.41	107.94	110.35	0.009154	4.1	165.1	677.51	2.41	30.6	41.85	0.96
1916	2	7.99	107.92	108.73	0.00358	1.27	22.56	28.72	0.81	9.37	6.28	0.5
	5	17.16	107.92	108.97	0.006531	1.98	50.81	100.55	1.05	12.4	8.81	0.69
	10	22.91	107.92	108.85	0.018119	3.09	128.26	396.92	0.93	10.02	7.4	1.14
	25	29.71	107.92	109.11	0.011913	2.89	104.31	301.61	1.19	21.43	10.92	0.95
	50	36.97	107.92	109.25	0.010805	3.01	108.05	325.11	1.33	25.12	14.34	0.93
	100	43.67	107.92	109.36	0.010282	3.12	112.88	352.57	1.44	26.02	17.02	0.92
	Regional	134.41	107.92	110.16	0.010779	4.53	199.41	903.11	2.24	30.43	40.15	1.03
1887	2	7.99	107.88	108.56	0.012393	1.9	56.14	106.69	0.68	8.89	4.2	0.88
	5	17.16	107.88	108.84	0.015214	2.18	72.45	157.75	0.96	19.71	8.08	0.99
	10	22.91	107.88	108.97	0.01185	2.21	69.82	154.63	1.09	26.44	11.38	0.9
	25	29.71	107.88	108.95	0.022187	2.97	127	377.5	1.07	26.29	10.92	1.23
	50	36.97	107.88	109.01	0.024207	3.31	152.23	503.24	1.13	26.81	12.47	1.31
	100	43.67	107.88	109.07	0.024783	3.53	169.27	598.24	1.19	27.31	13.99	1.34
	Regional	134.41	107.88	109.68	0.022725	5.11	288.07	1472.32	1.8	32.37	32.16	1.42
1861	2	7.99	107.8	108.45	0.016923	1.9	60.43	114.52	0.65	12.39	4.26	0.99
	5	17.16	107.8	108.64	0.021088	2.48	95.75	237.75	0.84	25.72	7.81	1.15
	10	22.91	107.8	108.7	0.022858	2.8	117.29	329	0.9	25.97	9.52	1.22
	25	29.71	107.8	108.78	0.022944	3.06	133.5	407.97	0.98	26.26	11.55	1.24
	50	36.97	107.8	108.84	0.024081	3.33	154.01	513.55	1.04	26.5	13.28	1.29
	100	43.67	107.8	108.9	0.024805	3.56	170.82	607.27	1.1	26.72	14.78	1.33
	Regional	134.41	107.8	109.48	0.027033	5.23	311.32	1627.88	1.68	31.13	31.21	1.51

Reach 2												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
1846	2	7.99	107.3	107.8	0.060462	3.58	215.29	769.79	0.5	5.92	2.23	1.86
	5	17.16	107.3	108.08	0.059479	3.63	219.16	795.17	0.78	12.17	4.73	1.86
	10	22.91	107.3	108.19	0.048896	3.72	216.61	805.7	0.89	13.15	6.16	1.74
	25	29.71	107.3	108.31	0.041382	3.79	213.82	810.72	1.01	20.59	8.01	1.64
	50	36.97	107.3	108.4	0.036664	3.95	220.37	869.89	1.1	25.72	10.2	1.58
	100	43.67	107.3	108.47	0.035153	4.12	232.44	957.43	1.17	28.56	12.06	1.57
	Regional	134.41	107.3	109.03	0.033296	5.76	379.51	2187.28	1.73	30.62	28.73	1.66
1829	2	7.99	106.85	107.47	0.054285	3.68	218.51	803.42	0.62	5.01	2.17	1.78
	5	17.16	106.85	108.41	0.004232	1.66	35	58.08	1.56	29.33	12.52	0.55
	10	22.91	106.85	108.6	0.003385	1.66	33.07	54.83	1.75	30.01	18.03	0.51
	25	29.71	106.85	108.73	0.003455	1.79	37.24	66.6	1.88	30.48	22.06	0.52
	50	36.97	106.85	108.85	0.003617	1.92	42.05	80.95	2	30.91	25.64	0.54
	100	43.67	106.85	108.93	0.003856	2.06	47.25	97.25	2.08	31.21	28.33	0.56
	Regional	134.41	106.85	109.06	0.02617	5.48	331.35	1815.93	2.21	32.2	32.41	1.47
1816	2	7.99	107.03	107.76	0.01584	2.29	78.81	180.27	0.73	6.59	3.49	1
	5	17.16	107.03	108.18	0.012687	2.49	84.73	211.07	1.15	11	6.92	0.94
	10	22.91	107.03	108.58	0.003668	1.66	33.94	56.51	1.55	31.83	18.36	0.53
	25	29.71	107.03	108.72	0.00356	1.77	36.82	65.05	1.69	32.39	22.72	0.53
	50	36.97	107.03	108.84	0.00366	1.88	40.57	76.1	1.81	33.12	26.61	0.55
	100	43.67	107.03	108.93	0.003878	1.98	44.48	87.84	1.9	33.87	29.64	0.56
	Regional	134.41	107.03	109.66	0.005393	3.15	97.22	306.13	2.63	46.75	59.43	0.72
1799	2	7.99	106.69	107.32	0.04143	3.28	172.1	564.51	0.63	5.47	2.44	1.57
	5	17.16	106.69	108.27	0.003453	1.7	34.65	59.06	1.58	31.89	13.21	0.51
	10	22.91	106.69	108.6	0.00178	1.41	22.08	31.12	1.91	32.99	23.74	0.38
	25	29.71	106.69	108.73	0.001945	1.55	25.92	40.07	2.04	33.39	28.17	0.4
	50	36.97	106.69	108.85	0.002124	1.69	30.22	51	2.16	34.63	32.12	0.42
	100	43.67	106.69	108.94	0.002304	1.82	34.54	62.87	2.25	36.57	35.27	0.44
	Regional	134.41	106.69	109.67	0.004129	3.09	88.37	272.96	2.98	47.13	65.84	0.63
1759	2	7.99	106.54	107.56	0.005032	1.59	34.18	54.24	1.02	6.74	5.04	0.59
	5	17.16	106.54	108.27	0.001996	1.43	23.23	33.24	1.73	29.58	16.39	0.4
	10	22.91	106.54	108.59	0.00121	1.29	17.48	22.49	2.05	36.4	26.72	0.32
	25	29.71	106.54	108.72	0.001378	1.45	21.5	31.06	2.18	38.83	31.62	0.35
	50	36.97	106.54	108.83	0.001559	1.6	25.89	41.49	2.29	42.59	36.2	0.37
	100	43.67	106.54	108.92	0.001734	1.74	30.13	52.48	2.38	45.81	40.05	0.4
	Regional	134.41	106.54	109.68	0.002971	2.83	71.55	202.83	3.14	63.08	81.13	0.55
1737	2	7.99	106.48	107.56	0.003765	1.39	26.07	36.23	1.08	7.53	5.75	0.51
	5	17.16	106.48	108.28	0.001469	1.22	16.84	20.47	1.8	29.14	18.59	0.34
	10	22.91	106.48	108.59	0.000953	1.13	13.59	15.39	2.11	36.64	28.43	0.29
	25	29.71	106.48	108.72	0.001102	1.28	17.02	21.85	2.24	44.18	33.62	0.31
	50	36.97	106.48	108.84	0.001251	1.43	20.6	29.41	2.36	53.19	39.21	0.34
	100	43.67	106.48	108.92	0.001374	1.54	23.72	36.62	2.44	56.09	44.01	0.36
	Regional	134.41	106.48	109.7	0.002193	2.45	53.2	130.2	3.22	65.72	91.51	0.48
1682	2	7.99	106.25	107.55	0.001691	1.05	14.06	14.79	1.3	8.31	7.59	0.35
	5	17.16	106.25	108.27	0.000871	1.05	11.93	12.56	2.02	31.31	21.63	0.27
	10	22.91	106.25	108.58	0.00066	1.04	10.89	11.31	2.33	43.36	32.67	0.25
	25	29.71	106.25	108.71	0.000809	1.2	14.29	17.2	2.46	53.08	38.99	0.28
	50	36.97	106.25	108.83	0.000913	1.33	17.08	22.68	2.58	54.94	45.19	0.3
	100	43.67	106.25	108.91	0.001015	1.44	19.78	28.46	2.66	56.61	50.04	0.31
	Regional	134.41	106.25	109.68	0.001816	2.36	48	113.21	3.43	63.28	96.49	0.44
	2	7.99	106.06	107.54	0.001135	0.9	10.14	9.18	1.48	8.86	8.83	0.29
	5	17.16	106.06	108.27	0.000657	0.91	8.93	8.13	2.21	32.6	24.38	0.24
	10	22.91	106.06	108.59	0.000516	0.92	8.47	7.75	2.53	42.2	35.78	0.22

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Reach 3												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chnl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
1572	2	7.99	104.83	105.2	0.122761	4.44	356.02	1582	0.37	5.84	1.8	2.56
	5	17.16	104.83	105.38	0.134438	6.01	573.34	3447.67	0.55	6.16	2.85	2.82
	10	22.91	104.83	105.49	0.121331	6.42	616.48	3957.83	0.66	6.38	3.57	2.74
	25	29.71	104.83	105.64	0.100824	6.58	610.19	4012.72	0.81	6.68	4.52	2.55
	50	36.97	104.83	105.78	0.086992	6.71	606.21	4068.01	0.95	6.98	5.51	2.41
	100	43.67	104.83	105.92	0.076271	6.76	592.91	4007.24	1.09	7.26	6.46	2.29
	Regional	134.41	104.83	107.27	0.031738	6.5	449.22	2920.3	2.44	18.46	22.99	1.62
1562	2	7.99	104.48	104.93	0.094046	4.27	313.6	1338.65	0.45	5.21	1.87	2.27
	5	17.16	104.48	105.14	0.102621	5.73	498.62	2857.56	0.66	5.53	2.99	2.49
	10	22.91	104.48	105.16	0.097262	6.2	552.97	3425.9	0.78	5.74	3.7	2.46
	25	29.71	104.48	105.42	0.084978	6.44	565.95	3641.94	0.94	6	4.62	2.34
	50	36.97	104.48	105.57	0.077998	6.62	578.53	3832.21	1.09	6.45	5.58	2.27
	100	43.67	104.48	105.71	0.070218	6.71	574.55	3855.29	1.23	6.74	6.51	2.18
	Regional	134.41	104.48	106.98	0.029846	6.83	476.19	3251.45	2.5	17.22	22.52	1.56
1549	2	7.99	104.15	104.7	0.067256	3.97	258.91	1028.5	0.55	4.83	2.01	1.97
	5	17.16	104.15	104.93	0.078727	5.34	419.98	2243.67	0.78	5.44	3.21	2.22
	10	22.91	104.15	105.06	0.080173	5.85	483.44	2828.1	0.91	5.82	3.92	2.28
	25	29.71	104.15	105.2	0.075099	6.21	520.03	3228.74	1.05	6.1	4.79	2.24
	50	36.97	104.15	105.35	0.069468	6.47	542.58	3510.76	1.2	6.36	5.71	2.18
	100	43.67	104.15	105.49	0.063974	6.62	549.78	3638.39	1.34	6.59	6.6	2.11
	Regional	134.41	104.15	107.03	0.026391	6.21	400.32	2485.17	2.88	15.69	22.1	1.5
1532	2	7.99	103.81	104.81	0.002779	1.21	19.74	23.98	1	8.45	6.58	0.44
	5	17.16	103.81	104.39	0.119144	5.39	472.7	2550.12	0.58	7.68	3.18	2.68
	10	22.91	103.81	104.48	0.12052	5.95	548.52	3261.34	0.67	8.06	3.85	2.75
	25	29.71	103.81	104.57	0.114034	6.41	605.79	3884.09	0.76	8.2	4.63	2.72
	50	36.97	103.81	104.67	0.106132	6.78	646.66	4382.72	0.86	8.3	5.45	2.67
	100	43.67	103.81	104.77	0.098542	7.02	668.99	4695.49	0.96	8.4	6.22	2.6
	Regional	134.41	103.81	106.14	0.035077	7.17	533.23	3821.92	2.33	9.86	18.75	1.66
1500	2	7.99	103.65	104.8	0.002006	1	13.66	13.71	1.15	10.57	7.96	0.37
	5	17.16	103.65	105.21	0.002384	1.39	23.33	32.49	1.56	10.93	12.32	0.42
	10	22.91	103.65	105.44	0.002366	1.53	26.93	41.33	1.79	11.14	14.93	0.42
	25	29.71	103.65	105.63	0.002696	1.75	33.85	59.21	1.98	11.3	16.99	0.46
	50	36.97	103.65	105.84	0.002817	1.91	39	74.43	2.19	11.48	19.37	0.47
	100	43.67	103.65	106.01	0.00292	2.04	43.47	88.64	2.36	11.64	21.42	0.48
	Regional	134.41	103.65	105.79	0.040382	7.13	547.98	3906.9	2.14	11.44	18.85	1.77
1479	2	7.99	103.71	104.55	0.017005	2.22	76.87	170.89	0.84	7.21	3.59	1.01
	5	17.16	103.71	105.08	0.007024	1.96	50.97	99.85	1.37	10.75	8.76	0.69
	10	22.91	103.71	105.33	0.0053	1.98	48.15	95.17	1.62	11.16	11.59	0.62
	25	29.71	103.71	105.5	0.005645	2.2	57.62	127.04	1.79	11.42	13.48	0.65
	50	36.97	103.71	105.72	0.005329	2.32	61.17	141.7	2.01	11.9	15.96	0.64
	100	43.67	103.71	105.9	0.005021	2.4	63.56	152.56	2.19	12.75	18.22	0.63
	Regional	134.41	103.71	106.49	0.016076	5.22	272.44	1421.32	2.78	16.39	26.64	1.17
1459	2	7.99	103.66	104.55	0.005041	1.47	30.39	44.56	0.89	8.38	5.45	0.58
	5	17.16	103.66	105.08	0.003568	1.69	34.41	58.06	1.42	9.32	10.17	0.52
	10	22.91	103.66	105.33	0.003544	1.82	38.31	69.55	1.67	10.97	12.66	0.52
	25	29.71	103.66	105.49	0.003997	2.07	48.21	99.96	1.83	11.86	14.53	0.56
	50	36.97	103.66	105.7	0.003907	2.22	53.26	118.47	2.04	12.86	17.13	0.56
	100	43.67	103.66	105.89	0.003821	2.34	57.13	133.66	2.23	13.96	19.57	0.56
	Regional	134.41	103.66	106.54	0.012166	4.98	236.68	1177.61	2.88	30.04	31.26	1.03
	2	7.99	103.4	104.42	0.006649	1.81	44.71	81	1.02	5.79	4.41	0.66
	5	17.16	103.4	104.91	0.007777	2.24	63.76	142.56	1.51	8.21	7.67	0.74
	10	22.91	103.4	105.17	0.006328	2.3	63.03	144.74	1.77	10.27	10.16	0.69

Reach 3												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chnl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
1423	25	29.71	103.4	105.2	0.009653	2.88	98.63	284.54	1.8	10.44	10.53	0.85
	50	36.97	103.4	105.27	0.012462	3.38	133.47	451.5	1.87	10.76	11.25	0.97
	100	43.67	103.4	105.4	0.012779	3.61	148.17	535.12	2	12.34	12.66	1
	Regional	134.41	103.4	106.43	0.012487	5.18	253	1310.28	3.03	34.72	34.92	1.08
1374	2	7.99	103.42	104.29	0.008322	1.93	51.87	99.94	0.87	5.91	4.15	0.73
	5	17.16	103.42	104.68	0.010061	2.59	84.93	220.26	1.26	6.76	6.62	0.84
	10	22.91	103.42	104.77	0.013843	3.16	123.79	391.34	1.35	6.96	7.25	0.99
	25	29.71	103.42	105.13	0.00777	2.75	86.74	238.16	1.71	24.75	13.83	0.77
	50	36.97	103.42	105.15	0.010945	3.3	124.74	412.19	1.73	25.24	14.51	0.92
	100	43.67	103.42	105.16	0.014749	3.86	169.38	652.99	1.74	25.42	14.76	1.07
	Regional	134.41	103.42	106.46	0.002495	2.49	56.41	140.52	3.04	74.47	97.13	0.49
1343	2	7.99	103.34	104.24	0.007104	1.77	43.97	77.92	0.9	6.63	4.51	0.69
	5	17.16	103.34	104.66	0.00784	2.22	63.11	139.97	1.32	12.1	7.74	0.75
	10	22.91	103.34	104.85	0.007019	2.37	67.72	160.36	1.51	24.14	11.16	0.73
	25	29.71	103.34	104.75	0.016662	3.44	147.04	505.48	1.41	18.51	9.2	1.11
	50	36.97	103.34	105.29	0.003045	1.97	41.79	82.44	1.95	59.23	31.53	0.51
	100	43.67	103.34	105.45	0.002323	1.84	35.26	64.97	2.11	63.16	41.33	0.45
	Regional	134.41	103.34	106.47	0.00153	2.05	37.33	76.61	3.13	72.23	112.12	0.4
1303	2	7.99	103.3	104.07	0.012079	2.05	62.56	128.37	0.77	7.02	3.89	0.88
	5	17.16	103.3	104.54	0.008057	2.3	67.12	154.41	1.24	10.95	7.52	0.76
	10	22.91	103.3	104.73	0.008711	2.45	75.26	184.43	1.43	19.36	10.46	0.8
	25	29.71	103.3	104.99	0.00549	2.23	58.17	129.67	1.69	29.88	17.18	0.66
	50	36.97	103.3	105.21	0.003975	2.12	49.82	105.7	1.91	31.73	23.8	0.58
	100	43.67	103.3	105.34	0.003677	2.17	50.49	109.49	2.04	39.05	28.18	0.56
	Regional	134.41	103.3	106.33	0.00282	2.65	63.98	169.83	3.03	62.49	83.65	0.53
1276	2	7.99	103.2	104.01	0.00867	1.83	48.33	88.22	0.81	7.34	4.38	0.75
	5	17.16	103.2	104.53	0.005629	1.99	49.53	98.79	1.33	9.73	8.61	0.65
	10	22.91	103.2	104.7	0.006255	2.22	59.77	132.75	1.5	17.01	10.99	0.69
	25	29.71	103.2	104.92	0.005046	2.26	58.23	131.71	1.72	23.71	15.5	0.64
	50	36.97	103.2	105.11	0.004434	2.32	58.56	135.87	1.91	29.16	20.08	0.61
	100	43.67	103.2	105.24	0.004234	2.4	60.93	146.26	2.04	33.73	24.23	0.61
	Regional	134.41	103.2	106.25	0.003247	2.92	76.48	223.29	3.04	64.79	78.75	0.58
1255	2	7.99	102.97	104	0.004946	1.6	34.59	55.48	1.03	6.38	4.98	0.58
	5	17.16	102.97	104.49	0.004933	2.02	49	99.16	1.52	11.71	8.64	0.61
	10	22.91	102.97	104.62	0.005962	2.39	65.95	157.67	1.65	15.98	10.44	0.68
	25	29.71	102.97	104.65	0.009373	3.03	105.52	320.01	1.68	16.33	10.8	0.86
	50	36.97	102.97	104.89	0.007106	2.96	95.15	282.04	1.92	24.39	15.78	0.77
	100	43.67	102.97	105.01	0.006932	3.08	100.32	309.34	2.04	25.4	18.84	0.77
	Regional	134.41	102.97	105.97	0.006104	3.93	139.7	548.67	3	58.6	59.47	0.78
1225	2	7.99	102.91	103.98	0.003717	1.41	26.43	37.15	1.07	7.24	5.68	0.51
	5	17.16	102.91	104.52	0.002969	1.62	30.89	50.02	1.61	14.41	11.75	0.48
	10	22.91	102.91	104.67	0.003322	1.86	39.11	72.76	1.76	21.91	14.26	0.52
	25	29.71	102.91	104.71	0.004868	2.3	59.34	136.77	1.8	26.05	15.36	0.63
	50	36.97	102.91	104.41	0.018965	3.89	183.13	713.17	1.5	13.69	10.32	1.21
	100	43.67	102.91	104.56	0.016589	3.93	179.56	705.75	1.65	14.88	12.43	1.15
	Regional	134.41	102.91	105.38	0.013906	5.1	253.89	1294.63	2.47	43.87	41.49	1.15
1192	2	7.99	102.89	103.69	0.016393	2.43	87.02	211.44	0.8	5.52	3.29	1.01
	5	17.16	102.89	104.12	0.01457	2.92	111.5	325.95	1.23	7.21	5.89	0.99
	10	22.91	102.89	104.48	0.007231	2.5	73.8	184.13	1.59	30.54	12.08	0.73
	25	29.71	102.89	104.67	0.005457	2.39	64.65	154.77	1.78	48.64	20.19	0.65
	50	36.97	102.89	104.76	0.005714	2.55	72.07	184.08	1.87	49.64	24.58	0.67
	100	43.67	102.89	104.8	0.006985	2.86	89.97	257.65	1.9	49.93	26.13	0.75

Reach 3												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chnl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
	Regional	134.41	102.89	105.73	0.00392	2.96	82.02	243.18	2.84	62.36	78.17	0.61
1176	2	7.99	102.83	103.44	0.032629	2.9	134.43	389.18	0.61	6.36	2.76	1.4
	5	17.16	102.83	104.18	0.006198	2.05	52.9	108.46	1.35	8.96	8.37	0.68
	10	22.91	102.83	104.46	0.004148	1.96	44.55	87.11	1.63	38.69	14.93	0.57
	25	29.71	102.83	104.6	0.004069	2.08	48.7	101.35	1.77	54.55	21.62	0.58
	50	36.97	102.83	104.73	0.003649	2.1	47.96	100.61	1.9	56.97	28.84	0.56
	100	43.67	102.83	104.84	0.003239	2.08	45.95	95.56	2.01	58.8	35.5	0.53
	Regional	134.41	102.83	105.76	0.002374	2.42	53.52	129.78	2.93	67.51	93.34	0.49
1158	2	7.99	102.79	103.6	0.008232	1.79	46.41	83.19	0.81	7.27	4.46	0.73
	5	17.16	102.79	104.17	0.004523	1.9	43.62	82.9	1.38	12.43	9.33	0.58
	10	22.91	102.79	104.46	0.003044	1.83	37.29	68.18	1.67	40.61	16.92	0.5
	25	29.71	102.79	104.6	0.003137	1.97	42.16	83.26	1.81	48.68	23.16	0.51
	50	36.97	102.79	104.71	0.003186	2.09	46.03	96.12	1.92	49.81	28.71	0.52
	100	43.67	102.79	104.81	0.003208	2.18	49.06	106.74	2.02	51.57	33.49	0.53
	Regional	134.41	102.79	105.69	0.002968	2.76	68.86	190.3	2.9	64.56	84.58	0.55
1141	2	7.99	102.62	103.62	0.003529	1.33	24.13	32.2	1	8.1	5.99	0.5
	5	17.16	102.62	104.2	0.002561	1.54	27.72	42.82	1.58	20.78	11.62	0.45
	10	22.91	102.62	104.48	0.00195	1.53	25.53	39.06	1.86	46.64	20.4	0.4
	25	29.71	102.62	104.62	0.002065	1.67	29.51	49.24	2	49.75	26.81	0.42
	50	36.97	102.62	104.73	0.002209	1.8	33.72	60.83	2.11	51.62	32.34	0.44
	100	43.67	102.62	104.82	0.002278	1.9	36.68	69.61	2.2	52.53	37.15	0.45
	Regional	134.41	102.62	105.69	0.002503	2.59	59.87	155.09	3.07	63.37	86.12	0.51
1123	2	7.99	102.35	103.63	0.001851	1.08	14.85	15.97	1.28	8.38	7.43	0.36
	5	17.16	102.35	104.21	0.001649	1.31	19.48	25.6	1.86	23.94	14.6	0.36
	10	22.91	102.35	104.5	0.001276	1.31	18.16	23.77	2.15	44.63	24.33	0.33
	25	29.71	102.35	104.63	0.001411	1.45	21.75	31.55	2.28	45.72	30.32	0.35
	50	36.97	102.35	104.74	0.001586	1.6	25.95	41.54	2.39	46.33	35.2	0.38
	100	43.67	102.35	104.83	0.001718	1.72	29.47	50.66	2.48	46.86	39.33	0.4
	Regional	134.41	102.35	105.62	0.002834	2.78	68.76	191.31	3.27	55.23	78.88	0.54
1088	2	7.99	102.37	103.29	0.016283	2.55	93.63	239.15	0.92	4.78	3.13	1.01
	5	17.16	102.37	103.76	0.01495	3	116.92	351.28	1.39	6.29	5.71	1.01
	10	22.91	102.37	103.99	0.014222	3.17	124.99	395.86	1.62	7.75	7.24	1
	25	29.71	102.37	104.4	0.006347	2.47	70.16	172.98	2.03	37.62	17.17	0.7
	50	36.97	102.37	104.51	0.006337	2.6	76.01	197.75	2.14	38.54	21.29	0.71
	100	43.67	102.37	104.58	0.006754	2.78	85.15	236.39	2.21	39.06	24.02	0.74
	Regional	134.41	102.37	105.25	0.008971	4.12	165.25	680.82	2.88	44.29	51.74	0.9
1079	2	7.99	102.34	102.73	0.156409	3.82	301.43	1151.32	0.39	10.3	2.09	2.71
	5	17.16	102.34	102.86	0.138434	4.83	415.99	2009.98	0.52	11.13	3.55	2.73
	10	22.91	102.34	102.94	0.124658	5.21	454.01	2366.39	0.6	11.32	4.4	2.67
	25	29.71	102.34	103.03	0.101403	5.38	451.94	2430.65	0.69	11.56	5.52	2.48
	50	36.97	102.34	103.15	0.079477	5.39	426.91	2302.02	0.81	11.83	6.86	2.26
	100	43.67	102.34	103.25	0.065656	5.39	406.38	2189.13	0.91	12.07	8.11	2.1
	Regional	134.41	102.34	104.44	0.018315	5.18	278.52	1442.87	2.1	37.57	32.45	1.26
1064	2	7.99	102.28	102.64	0.048918	2.53	121.77	308.51	0.36	12.35	3.15	1.6
	5	17.16	102.28	102.75	0.071541	3.7	236.74	876.93	0.47	13.61	4.63	2.03
	10	22.91	102.28	102.81	0.07782	4.24	296.02	1254.89	0.53	13.77	5.4	2.16
	25	29.71	102.28	102.88	0.076963	4.66	340.27	1585.79	0.6	13.93	6.37	2.2
	50	36.97	102.28	102.95	0.071902	4.95	366.34	1813.89	0.67	14.1	7.47	2.17
	100	43.67	102.28	103.02	0.067713	5.17	384.89	1989.34	0.74	14.25	8.45	2.14
	Regional	134.41	102.28	103.92	0.02914	5.77	368	2124.48	1.64	33.46	26.52	1.59
	2	7.99	100.74	101.27	0.082117	4.33	309.77	1341.51	0.53	4.46	1.85	2.15
	5	17.16	100.74	101.65	0.049349	4.68	306.66	1435.94	0.91	5.07	3.66	1.76

Reach 3												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chnl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
1028	10	22.91	100.74	101.84	0.044218	4.9	319.84	1568.71	1.1	5.45	4.67	1.69
	25	29.71	100.74	102.04	0.0413	5.09	332.45	1692.33	1.3	6.07	5.84	1.66
	50	36.97	100.74	102.24	0.0401	5.21	341.67	1779.97	1.49	7.05	7.1	1.66
	100	43.67	100.74	102.39	0.051339	5.16	358.7	1852.43	1.65	10.66	8.46	1.85
	Regional	134.41	100.74	103.16	0.05742	6.17	482.05	2975.56	2.42	29.58	22.61	2.06
1000	2	7.99	100.84	101.6	0.004678	1.4	27.96	39.27	0.76	8.94	5.69	0.56
	5	17.16	100.84	101.45	0.050019	3.98	241.15	959.85	0.6	8.48	4.31	1.78
	10	22.91	100.84	101.52	0.057628	4.6	310.72	1430.31	0.68	8.71	4.98	1.94
	25	29.71	100.84	101.62	0.060626	5.11	368.24	1882.34	0.78	8.98	5.81	2.03
	50	36.97	100.84	101.73	0.057264	5.38	392.52	2113.67	0.89	9.36	6.87	2.01
	100	43.67	100.84	101.87	0.047932	5.33	369.83	1971.59	1.03	9.88	8.19	1.87
	Regional	134.41	100.84	102.8	0.057843	5.87	447.86	2628.92	1.96	31.34	23.3	2.07
973	2	7.99	100.6	101.36	0.015836	2.29	79.01	181.03	0.76	6.53	3.49	1
	5	17.16	100.6	101.73	0.015167	2.51	89.43	224.18	1.13	10.73	6.85	1
	10	22.91	100.6	101.88	0.014777	2.69	98.63	265.05	1.28	11.69	8.53	1
	25	29.71	100.6	102.02	0.016163	2.91	113.57	330.34	1.42	13.24	10.21	1.06
	50	36.97	100.6	102.05	0.022986	3.49	162.82	567.81	1.45	13.62	10.6	1.26
	100	43.67	100.6	102.15	0.023759	3.62	173.76	629.34	1.55	14.97	12.06	1.29
	Regional	134.41	100.6	102.73	0.038833	5.11	328.98	1680.13	2.13	36.88	27.83	1.71
955	2	7.99	100.42	101.12	0.024311	2.73	114.52	312.93	0.7	5.76	2.92	1.22
	5	17.16	100.42	101.58	0.0176	2.72	104.79	284.78	1.16	9.74	6.31	1.08
	10	22.91	100.42	101.74	0.017093	2.87	112.99	324.46	1.32	11.01	7.98	1.08
	25	29.71	100.42	101.89	0.02002	3.02	126.86	383.32	1.47	14.23	9.83	1.16
	50	36.97	100.42	102.02	0.022006	3.12	136.03	423.88	1.6	17.69	11.86	1.22
	100	43.67	100.42	102.06	0.026327	3.42	163.84	560.9	1.64	18.92	12.76	1.33
	Regional	134.41	100.42	103.52	0.003131	2.3	53.04	122.07	3.1	44.91	64.62	0.55
920	2	7.99	100.12	100.81	0.029479	2.82	126.16	356.1	0.69	6.25	2.83	1.34
	5	17.16	100.12	101.15	0.02406	3.35	155.11	519.73	1.03	7.35	5.12	1.28
	10	22.91	100.12	101.34	0.027697	3.36	161.66	543.91	1.22	10.87	6.81	1.36
	25	29.71	100.12	101.49	0.025611	3.44	163.76	563.04	1.37	12.54	8.64	1.32
	50	36.97	100.12	101.64	0.029658	3.41	167.96	573.14	1.52	17.92	10.83	1.4
	100	43.67	100.12	102.18	0.004992	1.79	40.9	73.25	2.06	31.53	24.61	0.61
	Regional	134.41	100.12	103.58	0.001287	1.72	27.52	47.43	3.46	60.61	97.13	0.37
893	2	7.99	99.93	100.74	0.016198	2.45	87.69	214.57	0.81	5.45	3.27	1.01
	5	17.16	99.93	101.21	0.015458	2.66	98.17	261.01	1.28	9.05	6.45	1.01
	10	22.91	99.93	101.49	0.016041	2.36	82.86	195.57	1.56	17.22	9.71	1
	25	29.71	99.93	101.64	0.013175	2.38	79.88	190.12	1.71	18.9	12.48	0.94
	50	36.97	99.93	101.9	0.007128	2.1	56.62	118.68	1.97	21.77	17.67	0.72
	100	43.67	99.93	102.1	0.004773	1.98	46.85	92.53	2.17	36.88	23.72	0.61
	Regional	134.41	99.93	103.58	0.001172	1.75	27.44	47.95	3.65	65.17	107.02	0.35
859	2	7.99	99.59	100.36	0.027538	2.97	134.04	398.4	0.77	4.92	2.69	1.28
	5	17.16	99.59	100.76	0.026016	3.4	161.38	548.01	1.17	7.24	5.05	1.3
	10	22.91	99.59	100.99	0.020022	3.33	146.47	487.04	1.4	8.35	6.89	1.17
	25	29.71	99.59	101.36	0.01158	2.9	103.8	300.58	1.77	10.2	10.26	0.92
	50	36.97	99.59	101.58	0.009523	2.93	100.41	293.85	1.99	11.6	12.72	0.86
	100	43.67	99.59	101.76	0.00843	2.97	99.54	295.54	2.17	18.23	15.35	0.82
	Regional	134.41	99.59	103.54	0.001395	2.13	38.47	81.79	3.95	61.47	101.91	0.39
843	2	7.99	99.57	100.2	0.032469	3.01	142.26	428.06	0.63	5.65	2.66	1.4
	5	17.16	99.57	100.5	0.034488	3.68	195.23	718.16	0.93	7.67	4.66	1.51
	10	22.91	99.57	101.22	0.004791	1.89	43.95	83.14	1.65	12.25	12.11	0.61
	25	29.71	99.57	101.49	0.003804	1.9	41.91	79.83	1.92	13.93	15.64	0.56
	50	36.97	99.57	101.72	0.003333	1.97	42.51	83.56	2.15	20.38	19.66	0.53
	100	43.67	99.57	101.92	0.002882	1.99	41.72	82.98	2.35	34.53	25.25	0.51

Reach 3												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chnl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
	Regional	134.41	99.57	103.54	0.001074	1.95	31.6	61.56	3.97	58.26	105.06	0.35
825	2	7.99	99.53	100.38	0.0094	1.94	54	104.74	0.85	6.66	4.12	0.79
	5	17.16	99.53	100.94	0.005902	1.8	42.91	77.14	1.41	12.1	9.54	0.65
	10	22.91	99.53	101.21	0.004212	1.76	38.16	67.11	1.68	13.18	13.03	0.57
	25	29.71	99.53	101.5	0.00327	1.75	35.64	62.48	1.97	17.01	17.15	0.51
	50	36.97	99.53	101.73	0.002757	1.8	35.59	64.13	2.2	24.05	21.55	0.48
	100	43.67	99.53	101.92	0.002383	1.83	35	63.89	2.39	34.52	27.52	0.46
	Regional	134.41	99.53	103.52	0.001099	1.96	32.15	63.12	3.99	53.47	99.64	0.35
804	2	7.99	99.45	100.34	0.008433	1.79	46.54	83.22	0.89	7.36	4.47	0.73
	5	17.16	99.45	100.86	0.005625	1.97	48.75	96.22	1.41	8.92	8.7	0.64
	10	22.91	99.45	101.12	0.005149	2.07	51.32	106.35	1.67	9.82	11.05	0.62
	25	29.71	99.45	101.39	0.004921	2.12	52.35	110.78	1.94	11.8	14.04	0.62
	50	36.97	99.45	101.61	0.004465	2.21	54.43	120.13	2.16	13.56	16.84	0.6
	100	43.67	99.45	101.79	0.004203	2.29	56.73	130.03	2.34	24.01	19.91	0.59
	Regional	134.41	99.45	103.46	0.001571	2.29	44.19	101.03	4.01	49.31	86.39	0.41
774	2	7.99	99.29	100.3	0.005463	1.66	37.29	61.84	1.01	6.2	4.82	0.6
	5	17.16	99.29	100.79	0.00569	2.06	52.09	107.22	1.5	8.23	8.35	0.64
	10	22.91	99.29	101.03	0.005322	2.23	57.59	128.18	1.74	8.97	10.43	0.63
	25	29.71	99.29	101.28	0.005593	2.38	64.68	154.25	1.99	10.44	12.76	0.66
	50	36.97	99.29	101.5	0.005135	2.5	67.93	169.8	2.21	15.55	15.86	0.65
	100	43.67	99.29	101.68	0.004835	2.61	71.31	185.97	2.39	20.5	18.85	0.64
	Regional	134.41	99.29	103.27	0.002688	3.03	76.96	232.86	3.98	39.18	66.29	0.53
727	2	7.99	99.1	100.25	0.004186	1.49	29.6	44.01	1.15	6.72	5.37	0.53
	5	17.16	99.1	100.74	0.004348	1.93	44.28	85.56	1.64	7.9	8.91	0.56
	10	22.91	99.1	100.98	0.004237	2.13	50.98	108.68	1.88	10.06	11.07	0.57
	25	29.71	99.1	101.23	0.004044	2.32	57.05	132.08	2.13	12.38	13.83	0.57
	50	36.97	99.1	101.44	0.003964	2.49	63.23	157.3	2.34	13.78	16.68	0.58
	100	43.67	99.1	101.61	0.004034	2.65	69.99	185.78	2.51	16.87	19.17	0.59
	Regional	134.41	99.1	102.97	0.004273	3.84	123.35	473.19	3.87	29.69	51.05	0.66
688	2	7.99	99.08	100.07	0.009496	2.02	57.42	115.83	0.99	5.89	3.96	0.79
	5	17.16	99.08	100.56	0.007517	2.4	70.27	168.59	1.48	8.42	7.41	0.74
	10	22.91	99.08	100.84	0.006287	2.48	70.8	175.9	1.76	9.89	9.93	0.69
	25	29.71	99.08	101.11	0.00554	2.59	72.85	188.39	2.03	11.39	12.8	0.67
	50	36.97	99.08	101.32	0.005414	2.78	80.84	224.91	2.24	13.33	15.33	0.67
	100	43.67	99.08	101.48	0.005357	2.94	87.57	257.44	2.4	14.99	17.68	0.68
	Regional	134.41	99.08	102.94	0.004309	3.84	123.97	476.53	3.86	31.34	52.46	0.67
656	2	8.19	99.1	99.85	0.016067	2.42	85.86	207.47	0.75	5.67	3.39	1
	5	17.76	99.1	100.26	0.01501	3.03	118.53	359.13	1.16	6.33	5.86	1.01
	10	23.78	99.1	100.47	0.014683	3.29	133.25	438.11	1.37	6.71	7.23	1.01
	25	30.99	99.1	100.73	0.012045	3.42	134.74	461.25	1.63	9.76	9.44	0.94
	50	38.49	99.1	100.97	0.010259	3.52	135.21	476.55	1.87	11.99	12.03	0.9
	100	45.4	99.1	101.15	0.009417	3.63	138.5	503.12	2.05	13.57	14.37	0.87
	Regional	139.97	99.1	102.57	0.007084	4.67	187.99	877.87	3.47	27.93	44.29	0.84

Reach 4												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chnl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
563	2	8.19	98.38	99	0.032587	3.1	148.93	461.75	0.62	5.21	2.64	1.39
	5	17.76	98.38	99.36	0.030012	3.87	203.18	785.55	0.98	5.87	4.59	1.4
	10	23.78	98.38	99.54	0.028836	4.16	224.58	934.44	1.16	6.24	5.72	1.39
	25	30.99	98.38	99.71	0.02993	4.55	259.59	1182.26	1.33	6.59	6.8	1.43
	50	38.49	98.38	99.89	0.029348	4.82	280.84	1352.37	1.51	6.93	7.99	1.43
	100	45.4	98.38	100.05	0.027789	4.96	289.27	1433.71	1.67	7.21	9.16	1.4
	Regional	139.97	98.38	101.62	0.013016	5.67	292.88	1660.81	3.24	27.17	32.06	1.1
516	2	8.19	98.16	99.11	0.005681	1.67	38.14	63.8	0.95	6.35	4.9	0.61
	5	17.76	98.16	99.55	0.006832	2.26	62.63	141.41	1.39	7.2	7.87	0.69
	10	23.78	98.16	99.77	0.007376	2.51	74.79	187.65	1.61	7.78	9.48	0.73
	25	30.99	98.16	99.99	0.007597	2.76	86.95	240.02	1.83	8.64	11.26	0.75
	50	38.49	98.16	99.72	0.021536	4.23	213.72	903.25	1.56	7.65	9.11	1.24
	100	45.4	98.16	99.84	0.023007	4.52	240.57	1088.15	1.68	7.96	10.04	1.29
	Regional	139.97	98.16	101.24	0.01515	5.87	320.15	1878.36	3.08	31.08	30.61	1.17
469	2	8.19	97.98	98.81	0.016444	2.4	85.75	206.22	0.83	5.84	3.41	1.01
	5	17.76	97.98	99.4	0.008969	2.43	74.79	181.62	1.42	8.17	7.36	0.79
	10	23.78	97.98	99.66	0.007475	2.54	76.25	193.39	1.68	8.99	9.59	0.74
	25	30.99	97.98	99.89	0.007356	2.72	84.44	229.82	1.91	10.15	11.79	0.75
	50	38.49	97.98	100.03	0.008079	3.04	102.28	311.44	2.05	13.19	13.37	0.8
	100	45.4	97.98	100.12	0.009025	3.35	121.46	407.14	2.14	14.79	14.67	0.86
	Regional	139.97	97.98	100.86	0.018593	6.24	369.33	2303.48	2.88	24.79	29.21	1.31
437	2	8.19	97.79	98.81	0.006355	1.75	41.99	73.5	1.02	6.4	4.68	0.65
	5	17.76	97.79	99.4	0.004929	1.98	47.53	94.27	1.61	8.19	8.95	0.61
	10	23.78	97.79	99.66	0.004859	2.12	52.34	110.98	1.87	9.15	11.22	0.61
	25	30.99	97.79	99.91	0.004723	2.28	58.08	132.63	2.12	12.6	13.79	0.62
	50	38.49	97.79	100.06	0.005054	2.53	69.04	174.9	2.27	14.03	15.86	0.65
	100	45.4	97.79	100.17	0.005509	2.77	80.58	223.09	2.38	14.79	17.44	0.69
	Regional	139.97	97.79	100.8	0.015727	5.8	317.51	1841.14	3.01	27.85	30.04	1.22
375	2	8.19	97.49	98.82	0.001782	1.11	15.47	17.21	1.33	7.37	7.36	0.36
	5	17.76	97.49	99.41	0.002111	1.48	24.79	36.71	1.92	8.52	12	0.4
	10	23.78	97.49	99.66	0.002387	1.67	30.5	50.78	2.17	9.26	14.28	0.43
	25	30.99	97.49	99.9	0.002762	1.87	37.57	70.16	2.41	11.3	16.62	0.47
	50	38.49	97.49	100.06	0.003208	2.11	46.91	99.07	2.57	15.34	18.7	0.51
	100	45.4	97.49	100.17	0.003662	2.33	56.16	130.81	2.68	21.35	20.64	0.55
	Regional	139.97	97.49	100.47	0.019352	5.76	331.5	1911.08	2.98	40.99	30.38	1.28
323	2	8.19	97.34	98.73	0.003528	1.5	28.78	43.19	1.39	5.4	5.46	0.48
	5	17.76	97.34	99.24	0.005	2.07	50.9	105.43	1.9	6.75	8.57	0.59
	10	23.78	97.34	99.45	0.005902	2.37	64.82	153.42	2.11	8.84	10.06	0.65
	25	30.99	97.34	99.66	0.007001	2.6	77.8	202.16	2.32	17.32	12.93	0.71
	50	38.49	97.34	99.81	0.007556	2.8	88.58	247.8	2.47	19.27	15.73	0.75
	100	45.4	97.34	99.94	0.007666	2.92	94.69	276.27	2.6	20.33	18.33	0.76
	Regional	139.97	97.34	101.34	0.003044	2.82	71.56	202.05	4	60.44	80.39	0.54
290	2	8.19	97.37	98.6	0.007374	1.91	49.53	94.42	1.23	5.56	4.3	0.69
	5	17.76	97.37	99.1	0.008053	2.38	70.49	167.56	1.73	7.32	7.47	0.75
	10	23.78	97.37	99.34	0.007449	2.54	76.29	193.64	1.97	13.19	9.83	0.74
	25	30.99	97.37	99.61	0.006316	2.54	73.23	185.91	2.24	19	14.27	0.7
	50	38.49	97.37	99.78	0.006152	2.67	78.36	209.05	2.41	20.63	17.59	0.7
	100	45.4	97.37	99.91	0.005927	2.78	82.37	228.59	2.54	22.78	20.5	0.7
	Regional	139.97	97.37	101.25	0.003321	3.1	84.07	260.48	3.88	54.98	75.32	0.58
	2	8.19	97.31	98.3	0.016154	2.53	92.3	233.8	0.99	5.03	3.23	1.01
	5	17.76	97.31	98.78	0.014471	2.98	114.57	341.41	1.47	6.58	5.96	1
	10	23.78	97.31	99	0.0141	3.18	125.41	398.69	1.69	7.31	7.48	1

Reach 4												
River Station	Storm Event	Flow Rate	Min Channel Elev	Water Surface Elev	Energy Grade Slope	Velocity Chnl	Shear Chnl	Power Chnl	Max Chnl Depth	Top Width Chnl	Flow Area	Froude # Chnl
		(m³/s)	(m)	(m)	(m/m)	(m/s)	(N/m²)	(N/ms)	(m)	(m)	(m²)	
246	25	30.99	97.31	99.27	0.012346	3.19	122.04	389.52	1.96	11.93	9.96	0.96
	50	38.49	97.31	99.53	0.009446	3.07	107.64	330.35	2.22	18.3	14.14	0.86
	100	45.4	97.31	99.66	0.009044	3.2	113.26	362.21	2.35	19.29	16.55	0.86
	Regional	139.97	97.31	101.25	0.002491	2.77	66.17	183.34	3.94	51.23	81.17	0.51
201	2	8.19	97.29	98.23	0.002445	1.12	16.83	18.78	0.94	9.99	7.34	0.42
	5	17.76	97.29	98.77	0.002021	1.36	21.66	29.53	1.48	10.95	13.03	0.4
	10	23.78	97.29	99.04	0.002007	1.48	24.58	36.48	1.75	11.68	16.02	0.4
	25	30.99	97.29	99.31	0.002058	1.61	27.83	44.69	2.02	12.71	19.3	0.42
	50	38.49	97.29	99.55	0.002013	1.71	30.41	52.01	2.26	22.53	23.24	0.42
	100	45.4	97.29	99.75	0.001861	1.77	31.42	55.64	2.46	26.31	28.13	0.41
	Regional	139.97	97.29	101.27	0.001365	2.25	41.52	93.22	3.98	54.84	93.01	0.39
154	2	8.19	97.13	97.89	0.016094	2.44	87.38	213.53	0.76	5.57	3.35	1.01
	5	17.76	97.13	98.33	0.014517	2.95	113.02	333.58	1.2	6.78	6.02	1
	10	23.78	97.13	98.53	0.014255	3.18	125.67	399.3	1.4	7.38	7.48	1.01
	25	30.99	97.13	98.76	0.013792	3.34	134.33	448.7	1.63	8.25	9.28	1.01
	50	38.49	97.13	98.97	0.013452	3.48	142.17	495.23	1.84	9.04	11.05	1.01
	100	45.4	97.13	99.14	0.013167	3.59	147.86	530.58	2.01	9.74	12.65	1.01
	Regional	139.97	97.13	101.12	0.002513	2.86	69.66	199.48	3.99	49.95	75.96	0.51
118	2	8.19	96.51	97.07	0.062944	3.88	246.09	955.58	0.55	5.02	2.11	1.91
	5	17.76	96.51	97.4	0.047252	4.52	287.42	1298.3	0.89	5.74	3.93	1.74
	10	23.78	96.51	97.59	0.041917	4.74	299.91	1421.78	1.08	6.1	5.02	1.67
	25	30.99	96.51	97.79	0.037137	4.93	308.74	1522.67	1.28	6.43	6.28	1.59
	50	38.49	96.51	97.99	0.033304	5.06	312.57	1582.81	1.48	6.75	7.6	1.52
	100	45.4	96.51	98.17	0.030309	5.14	312.43	1606.66	1.66	7.02	8.83	1.46
	Regional	139.97	96.51	101.13	0.001988	2.57	55.91	143.77	4.62	47.06	79.88	0.44
79	2	8.19	96.1	97.31	0.006479	1.8	44.13	79.6	1.21	5.76	4.54	0.65
	5	17.76	96.1	97.89	0.005685	2.12	54.42	115.37	1.79	7.41	8.38	0.64
	10	23.78	96.1	98.18	0.005293	2.23	57.54	128.1	2.08	8.28	10.68	0.63
	25	30.99	96.1	98.49	0.004913	2.31	59.79	138.28	2.39	9.26	13.4	0.61
	50	38.49	96.1	98.78	0.004581	2.38	61.17	145.31	2.68	10.19	16.2	0.6
	100	45.4	96.1	99.02	0.004398	2.42	62.37	151.12	2.92	11.12	18.74	0.6
	Regional	139.97	96.1	101.1	0.001676	2.5	51.5	128.98	5	41.39	76.67	0.42
45	2	8.19	96.1	97.02	0.016312	2.58	95.2	245.78	0.92	4.75	3.17	1.01
	5	17.76	96.1	97.49	0.015036	3.15	125.87	396.81	1.39	5.58	5.63	1
	10	23.78	96.1	97.73	0.014684	3.39	139.21	471.23	1.63	6.04	7.03	1
	25	30.99	96.1	97.98	0.014331	3.61	152.07	548.24	1.88	6.5	8.6	1
	50	38.49	96.1	98.22	0.014075	3.79	163	617.28	2.12	6.96	10.16	1
	100	45.4	96.1	98.42	0.013843	3.91	170.19	665.19	2.32	7.47	11.62	1
	Regional	139.97	96.1	100.2	0.007877	4.78	199.63	953.3	4.1	18.91	35.78	0.85
20	2	8.19	95.85	96.55	0.04177	3.41	182.77	623.2	0.7	5.11	2.4	1.59
	5	17.76	95.85	96.87	0.038742	4.23	247.86	1048.51	1.02	5.93	4.2	1.61
	10	23.78	95.85	97.04	0.03706	4.56	274.73	1253.92	1.19	6.25	5.21	1.6
	25	30.99	95.85	97.22	0.035434	4.87	299.37	1457.79	1.37	6.59	6.36	1.58
	50	38.49	95.85	97.39	0.03403	5.12	319.89	1639.17	1.54	6.88	7.51	1.57
	100	45.4	95.85	97.54	0.0328	5.31	334.73	1778.68	1.69	7.1	8.54	1.55
	Regional	139.97	95.85	99.11	0.021024	6.25	382.1	2388.38	3.26	15.56	23.87	1.33
3	2	8.19	95.62	96.33	0.037797	3.45	181.6	626.89	0.71	4.44	2.37	1.51
	5	17.76	95.62	96.73	0.032066	4.1	225.92	927.23	1.11	5.28	4.33	1.45
	10	23.78	95.62	96.95	0.028971	4.33	238.95	1035.41	1.33	5.54	5.49	1.39
	25	30.99	95.62	97.2	0.02548	4.48	243.57	1092.1	1.58	5.8	6.91	1.31
	50	38.49	95.62	97.53	0.019286	4.33	215.38	931.96	1.91	6.06	8.9	1.14
	100	45.4	95.62	97.68	0.020593	4.64	243.2	1128.67	2.06	6.18	9.78	1.18

[illegible]