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X     X  XXXXXX    XXXX        XXXX       XX      XXXX
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X     X  X        X    X      X   X    X    X        X
X     X  XXXXXX    XXXX       X    X   X    X   XXXXX
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PROJECT DATA
Project Title: BURTON CREEK TRIBUTARY C
Project File : TRIB_C.prj
Run Date and Time:

Project in English units

Project Description:
TRIBUTARY C OF BURTON CREEK KLOTZ PROJECT NO. 31205

FLOW DATA

Flow Title: 10, 25, 50, 100, and 500-Year Flow Profiles
Flow File : j:\31205\4.0 Calculations\Trib C\TRIB_C.F01

Flow Data (cfs)

River	Reach	RS	10-Year	25-Year	50-Year	100-Year	500-Year
Reach #2	TRIBUTARY C	8444.71	510	622	702	797	972
Reach #2	TRIBUTARY C	6337.45	1128	1377	1554	1767	2155
Reach #2	TRIBUTARY C	5445.21	1396	1710	1933	2200	2673
Reach #2	TRIBUTARY C	2031.4	1897	2497	2845	3246	3954

Boundary Conditions

River	Reach	Profile	Upstream	Downstream
Reach #2	TRIBUTARY C	10-Year		Known WS = 280.6
Reach #2	TRIBUTARY C	25-Year		Known WS = 281.45
Reach #2	TRIBUTARY C	50-Year		Known WS = 281.95
Reach #2	TRIBUTARY C	100-Year		Known WS = 282.47
Reach #2	TRIBUTARY C	500-Year		Known WS = 284.07

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Reach #2

Reach	River Sta.	Contr.	Expan.
TRIBUTARY C	8444.71	.1	.3
TRIBUTARY C	8323.19	.1	.3
TRIBUTARY C	8286.75	.1	.3
TRIBUTARY C	8268.53	.3	.5
TRIBUTARY C	8211.82	Culvert	
TRIBUTARY C	8155.1	.3	.5
TRIBUTARY C	8148.26	.1	.3
TRIBUTARY C	8141.42	.1	.3
TRIBUTARY C	8134.58	.1	.3
TRIBUTARY C	8105.57	.1	.3
TRIBUTARY C	7351.31	.1	.3
TRIBUTARY C	6337.45	.1	.3
TRIBUTARY C	5445.21	.1	.3
TRIBUTARY C	4654.11	.3	.5
TRIBUTARY C	4618.01	Bridge	
TRIBUTARY C	4581.92	.3	.5
TRIBUTARY C	4524.86	.1	.3
TRIBUTARY C	3614.21	.1	.3
TRIBUTARY C	3438.53	.1	.3
TRIBUTARY C	3262.85	.1	.3
TRIBUTARY C	3087.17	.1	.3
TRIBUTARY C	2911.49	.1	.3
TRIBUTARY C	2735.81	.1	.3
TRIBUTARY C	2560.13	.1	.3
TRIBUTARY C	2031.4	.1	.3
TRIBUTARY C	1601.6	.1	.3
TRIBUTARY C	1171.8	.1	.3
TRIBUTARY C	742	.1	.3

HEC-RAS Plan: TRIB C EX CD River: Reach #2 Reach: TRIBUTARY C Profile: 10-Year

Reach	River Sta	Mann Wtd Left	Mann Wtd Chnl	Mann Wtd Rght	Length Left	Length Chnl	Length Rght
					(ft)	(ft)	(ft)
TRIBUTARY C	8444.71		0.070		134.12	121.52	116.41
TRIBUTARY C	8323.19	0.120	0.070	0.120	37.20	36.44	40.14
TRIBUTARY C	8286.75	0.120	0.070		18.60	18.22	20.07
TRIBUTARY C	8268.53	0.120	0.070	0.120	113.75	113.43	116.08
TRIBUTARY C	8211.82	Culvert					
TRIBUTARY C	8155.1		0.070		7.62	6.84	7.36
TRIBUTARY C	8148.26		0.070		7.62	6.84	7.36
TRIBUTARY C	8141.42		0.070		7.62	6.84	7.36
TRIBUTARY C	8134.58		0.070		30.38	29.01	28.12
TRIBUTARY C	8105.57		0.070		789.88	754.26	731.12
TRIBUTARY C	7351.31		0.070		993.78	1013.86	1070.34
TRIBUTARY C	6337.45	0.120	0.070	0.120	919.51	892.24	751.67
TRIBUTARY C	5445.21		0.070		758.45	791.10	805.98
TRIBUTARY C	4654.11		0.070		1.00	1.00	1.00
TRIBUTARY C	4618.01	Bridge					
TRIBUTARY C	4581.92		0.070		55.09	57.06	48.24
TRIBUTARY C	4524.86	0.120	0.070	0.120	614.66	910.65	777.07
TRIBUTARY C	3614.21		0.070	0.120	179.63	175.68	175.55
TRIBUTARY C	3438.53		0.070	0.120	179.63	175.68	175.55
TRIBUTARY C	3262.85		0.070	0.120	179.63	175.68	175.55
TRIBUTARY C	3087.17		0.070	0.120	179.63	175.68	175.55
TRIBUTARY C	2911.49		0.070	0.120	179.63	175.68	175.55
TRIBUTARY C	2735.81	0.120	0.070	0.120	179.63	175.68	175.55
TRIBUTARY C	2560.13	0.120	0.070	0.120	534.13	528.73	552.47
TRIBUTARY C	2031.4	0.120	0.070	0.120	419.50	429.80	427.81
TRIBUTARY C	1601.6	0.120	0.070	0.120	419.50	429.80	427.81
TRIBUTARY C	1171.8	0.120	0.070		419.50	429.80	427.81
TRIBUTARY C	742	0.120	0.070				

HEC-RAS Plan: TRIB C EX CD River: Reach #2 Reach: TRIBUTARY C

Reach	River Sta	Profile	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area
			(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)
TRIBUTARY C	8444.71	10-Year	314.00	320.63	316.59	320.66	0.000810	1.42	359.50
TRIBUTARY C	8444.71	25-Year	314.00	320.85	316.84	320.89	0.001023	1.63	382.16
TRIBUTARY C	8444.71	50-Year	314.00	321.01	317.03	321.06	0.001165	1.76	398.58
TRIBUTARY C	8444.71	100-Year	314.00	321.12	317.22	321.18	0.001392	1.94	410.06
TRIBUTARY C	8444.71	500-Year	314.00	321.43	317.52	321.50	0.001684	2.19	443.07
TRIBUTARY C	8323.19	10-Year	310.84	320.46	315.97	320.52	0.001716	1.94	278.52
TRIBUTARY C	8323.19	25-Year	310.84	320.64	316.34	320.72	0.002133	2.23	302.87
TRIBUTARY C	8323.19	50-Year	310.84	320.77	316.59	320.86	0.002394	2.42	322.04
TRIBUTARY C	8323.19	100-Year	310.84	320.83	316.88	320.94	0.002922	2.70	330.90
TRIBUTARY C	8323.19	500-Year	310.84	321.07	317.34	321.21	0.003450	3.05	372.05
TRIBUTARY C	8286.75	10-Year	311.29	320.42		320.46	0.001531	1.65	347.48
TRIBUTARY C	8286.75	25-Year	311.29	320.58		320.64	0.001958	1.88	377.40
TRIBUTARY C	8286.75	50-Year	311.29	320.71		320.77	0.002220	2.02	401.85
TRIBUTARY C	8286.75	100-Year	311.29	320.75		320.83	0.002711	2.25	410.74
TRIBUTARY C	8286.75	500-Year	311.29	320.99		321.08	0.003028	2.51	463.44
TRIBUTARY C	8268.53	10-Year	311.52	320.41	315.36	320.44	0.001029	1.45	408.75
TRIBUTARY C	8268.53	25-Year	311.52	320.56	315.75	320.60	0.001279	1.67	443.64
TRIBUTARY C	8268.53	50-Year	311.52	320.68	316.00	320.73	0.001421	1.81	472.50
TRIBUTARY C	8268.53	100-Year	311.52	320.72	316.29	320.78	0.001757	2.02	481.76
TRIBUTARY C	8268.53	500-Year	311.52	320.96	316.77	321.03	0.002030	2.27	542.64
TRIBUTARY C	8211.82		Culvert						
TRIBUTARY C	8155.1	10-Year	311.07	314.69	314.48	315.63	0.045125	7.76	65.69
TRIBUTARY C	8155.1	25-Year	311.07	315.07	314.84	316.10	0.043909	8.15	76.34
TRIBUTARY C	8155.1	50-Year	311.07	315.23	315.07	316.39	0.046845	8.66	81.04
TRIBUTARY C	8155.1	100-Year	311.07	315.39	315.30	316.73	0.050884	9.28	85.87
TRIBUTARY C	8155.1	500-Year	311.07	315.72	315.72	317.32	0.054725	10.14	95.89
TRIBUTARY C	8148.26	10-Year	310.60	314.44		315.27	0.041136	7.32	69.66
TRIBUTARY C	8148.26	25-Year	310.60	314.86		315.74	0.037819	7.54	82.49
TRIBUTARY C	8148.26	50-Year	310.60	315.01		316.01	0.040474	8.02	87.54
TRIBUTARY C	8148.26	100-Year	310.60	315.13		316.31	0.046233	8.74	91.24
TRIBUTARY C	8148.26	500-Year	310.60	315.36	315.36	316.86	0.054295	9.82	98.95
TRIBUTARY C	8141.42	10-Year	310.13	314.47		314.98	0.022696	5.74	88.87
TRIBUTARY C	8141.42	25-Year	310.13	314.91		315.46	0.021334	5.95	104.48
TRIBUTARY C	8141.42	50-Year	310.13	315.06		315.69	0.024014	6.36	110.45
TRIBUTARY C	8141.42	100-Year	310.13	315.20		315.94	0.027805	6.88	115.87
TRIBUTARY C	8141.42	500-Year	310.13	315.45		316.37	0.034823	7.69	126.40
TRIBUTARY C	8134.58	10-Year	309.66	314.51		314.79	0.012614	4.19	121.61
TRIBUTARY C	8134.58	25-Year	309.66	314.98		315.26	0.012202	4.25	146.41
TRIBUTARY C	8134.58	50-Year	309.66	315.16		315.47	0.013164	4.47	156.91
TRIBUTARY C	8134.58	100-Year	309.66	315.34		315.69	0.014396	4.75	167.92
TRIBUTARY C	8134.58	500-Year	309.66	315.64		316.06	0.016194	5.17	188.16
TRIBUTARY C	8105.57	10-Year	309.28	314.13	312.39	314.42	0.013050	4.25	120.01
TRIBUTARY C	8105.57	25-Year	309.28	314.61	312.88	314.90	0.012431	4.28	145.33
TRIBUTARY C	8105.57	50-Year	309.28	314.76	313.16	315.08	0.013735	4.55	154.19
TRIBUTARY C	8105.57	100-Year	309.28	314.85	313.46	315.24	0.016345	5.00	159.36
TRIBUTARY C	8105.57	500-Year	309.28	314.99	313.91	315.51	0.021394	5.79	167.94
TRIBUTARY C	7351.31	10-Year	299.47	306.37		306.55	0.008466	3.35	152.15
TRIBUTARY C	7351.31	25-Year	299.47	306.73		306.92	0.009028	3.53	176.08

HEC-RAS Plan: TRIB C EX CD River: Reach #2 Reach: TRIBUTARY C (Continued)

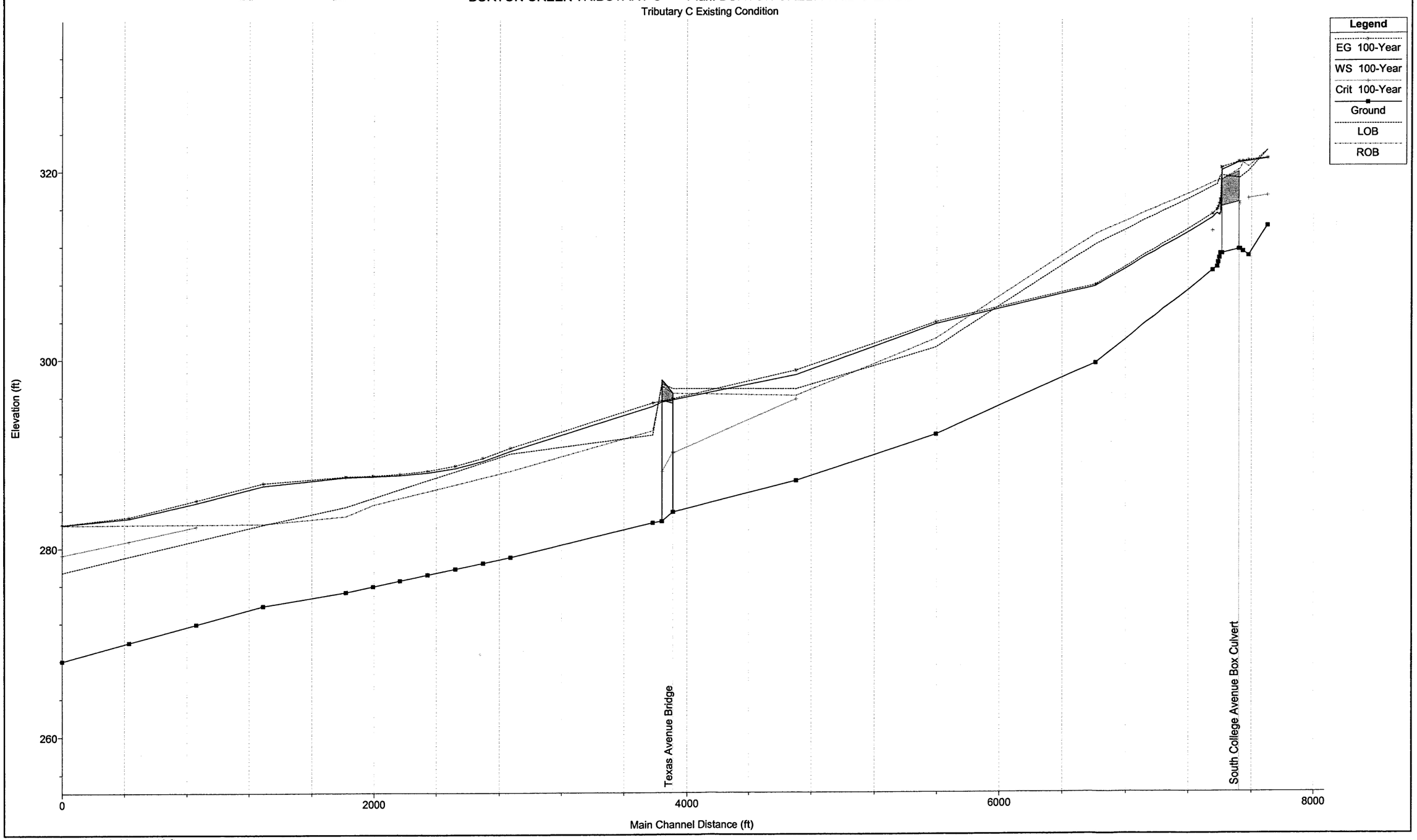
Reach	River Sta	Profile	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area
			(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)
TRIBUTARY C	7351.31	50-Year	299.47	307.11		307.29	0.007977	3.41	205.59
TRIBUTARY C	7351.31	100-Year	299.47	307.60		307.76	0.006539	3.22	247.71
TRIBUTARY C	7351.31	500-Year	299.47	308.27		308.42	0.005135	3.10	313.57
TRIBUTARY C	6337.45	10-Year	291.98	302.58		302.73	0.002836	3.15	411.08
TRIBUTARY C	6337.45	25-Year	291.98	303.30		303.45	0.002474	3.22	554.42
TRIBUTARY C	6337.45	50-Year	291.98	303.52		303.69	0.002684	3.44	609.01
TRIBUTARY C	6337.45	100-Year	291.98	303.66		303.86	0.003146	3.78	645.25
TRIBUTARY C	6337.45	500-Year	291.98	303.95		304.21	0.003803	4.29	729.48
TRIBUTARY C	5445.21	10-Year	287.10	296.02		296.90	0.018487	7.53	185.29
TRIBUTARY C	5445.21	25-Year	287.10	297.11		297.88	0.021628	7.03	252.95
TRIBUTARY C	5445.21	50-Year	287.10	297.67	295.18	298.33	0.016076	6.65	365.51
TRIBUTARY C	5445.21	100-Year	287.10	298.31	295.75	298.79	0.010671	5.94	574.53
TRIBUTARY C	5445.21	500-Year	287.10	299.04	297.67	299.39	0.007430	5.44	847.23
TRIBUTARY C	4654.11	10-Year	283.80	294.17	288.61	294.25	0.001204	2.25	620.37
TRIBUTARY C	4654.11	25-Year	283.80	294.82	289.13	294.91	0.001370	2.46	695.55
TRIBUTARY C	4654.11	50-Year	283.80	295.22	289.54	295.32	0.001544	2.59	746.28
TRIBUTARY C	4654.11	100-Year	283.80	295.69	290.06	295.80	0.001820	2.70	814.05
TRIBUTARY C	4654.11	500-Year	283.80	296.16	290.69	296.30	0.002352	3.00	891.48
TRIBUTARY C	4618.01		Bridge						
TRIBUTARY C	4581.92	10-Year	282.81	294.07		294.12	0.000724	1.94	718.89
TRIBUTARY C	4581.92	25-Year	282.81	294.70		294.77	0.000828	2.17	789.54
TRIBUTARY C	4581.92	50-Year	282.81	295.08		295.17	0.000907	2.32	833.87
TRIBUTARY C	4581.92	100-Year	282.81	295.46		295.56	0.001019	2.51	877.65
TRIBUTARY C	4581.92	500-Year	282.81	295.98		296.11	0.001246	2.84	940.48
TRIBUTARY C	4524.86	10-Year	282.64	293.69		293.97	0.003849	4.44	407.19
TRIBUTARY C	4524.86	25-Year	282.64	294.28		294.60	0.004099	4.83	503.00
TRIBUTARY C	4524.86	50-Year	282.64	294.64		294.99	0.004264	5.08	573.11
TRIBUTARY C	4524.86	100-Year	282.64	294.99		295.36	0.004504	5.36	648.18
TRIBUTARY C	4524.86	500-Year	282.64	295.45		295.89	0.005056	5.88	758.29
TRIBUTARY C	3614.21	10-Year	279.00	289.00		289.29	0.007401	4.37	337.99
TRIBUTARY C	3614.21	25-Year	279.00	289.56		289.88	0.007035	4.58	423.66
TRIBUTARY C	3614.21	50-Year	279.00	289.92		290.25	0.006833	4.70	488.24
TRIBUTARY C	3614.21	100-Year	279.00	290.29		290.62	0.006455	4.79	606.61
TRIBUTARY C	3614.21	500-Year	279.00	290.84		291.16	0.005722	4.84	844.02
TRIBUTARY C	3438.53	10-Year	278.38	287.79		288.06	0.006568	4.19	335.76
TRIBUTARY C	3438.53	25-Year	278.38	288.44		288.74	0.005976	4.37	413.16
TRIBUTARY C	3438.53	50-Year	278.38	288.83		289.14	0.005783	4.50	472.00
TRIBUTARY C	3438.53	100-Year	278.38	289.24		289.57	0.005595	4.65	546.91
TRIBUTARY C	3438.53	500-Year	278.38	289.87		290.20	0.005180	4.82	741.53
TRIBUTARY C	3262.85	10-Year	277.76	286.88		287.10	0.004497	3.70	377.72
TRIBUTARY C	3262.85	25-Year	277.76	287.64		287.87	0.004010	3.84	459.08
TRIBUTARY C	3262.85	50-Year	277.76	288.04		288.29	0.003955	3.99	516.19
TRIBUTARY C	3262.85	100-Year	277.76	288.47		288.73	0.003887	4.16	593.40
TRIBUTARY C	3262.85	500-Year	277.76	289.14		289.42	0.003705	4.37	776.58
TRIBUTARY C	3087.17	10-Year	277.14	286.36		286.50	0.002452	3.04	460.56
TRIBUTARY C	3087.17	25-Year	277.14	287.17		287.32	0.002276	3.20	554.25
TRIBUTARY C	3087.17	50-Year	277.14	287.57		287.75	0.002295	3.36	620.46
TRIBUTARY C	3087.17	100-Year	277.14	288.00		288.19	0.002317	3.53	716.33

HEC-RAS Plan: TRIB C EX CD River: Reach #2 Reach: TRIBUTARY C (Continued)

Reach	River Sta	Profile	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area
			(ft)	(ft)	(ft)	(ft)	(ft/ft)	(ft/s)	(sq ft)
TRIBUTARY C	3087.17	500-Year	277.14	288.69		288.89	0.002296	3.75	911.91
TRIBUTARY C	2911.49	10-Year	276.51	286.10		286.19	0.001253	2.45	577.54
TRIBUTARY C	2911.49	25-Year	276.51	286.92		287.02	0.001219	2.62	700.31
TRIBUTARY C	2911.49	50-Year	276.51	287.32		287.44	0.001264	2.77	790.05
TRIBUTARY C	2911.49	100-Year	276.51	287.75		287.87	0.001307	2.93	903.37
TRIBUTARY C	2911.49	500-Year	276.51	288.42		288.57	0.001361	3.16	1108.26
TRIBUTARY C	2735.81	10-Year	275.89	285.96		286.02	0.000658	1.99	729.58
TRIBUTARY C	2735.81	25-Year	275.89	286.79		286.86	0.000668	2.15	903.80
TRIBUTARY C	2735.81	50-Year	275.89	287.18		287.26	0.000707	2.29	1008.09
TRIBUTARY C	2735.81	100-Year	275.89	287.60		287.69	0.000753	2.44	1128.84
TRIBUTARY C	2735.81	500-Year	275.89	288.27		288.37	0.000820	2.67	1341.05
TRIBUTARY C	2560.13	10-Year	275.27	285.89		285.94	0.000348	1.68	932.03
TRIBUTARY C	2560.13	25-Year	275.27	286.71		286.77	0.000372	1.84	1140.52
TRIBUTARY C	2560.13	50-Year	275.27	287.11		287.16	0.000406	1.97	1251.97
TRIBUTARY C	2560.13	100-Year	275.27	287.52		287.58	0.000445	2.12	1378.79
TRIBUTARY C	2560.13	500-Year	275.27	288.18		288.25	0.000510	2.35	1598.35
TRIBUTARY C	2031.4	10-Year	273.82	285.19		285.42	0.003486	4.22	711.56
TRIBUTARY C	2031.4	25-Year	273.82	285.94		286.19	0.003599	4.59	940.32
TRIBUTARY C	2031.4	50-Year	273.82	286.27		286.54	0.003795	4.84	1053.37
TRIBUTARY C	2031.4	100-Year	273.82	286.62		286.91	0.003962	5.09	1186.81
TRIBUTARY C	2031.4	500-Year	273.82	287.20		287.51	0.004123	5.43	1430.42
TRIBUTARY C	1601.6	10-Year	271.88	283.62	278.83	283.84	0.003847	4.14	710.94
TRIBUTARY C	1601.6	25-Year	271.88	284.37	279.91	284.61	0.003799	4.45	1016.74
TRIBUTARY C	1601.6	50-Year	271.88	284.51	280.56	284.79	0.004410	4.86	1085.84
TRIBUTARY C	1601.6	100-Year	271.88	284.80	282.28	285.09	0.004585	5.09	1232.80
TRIBUTARY C	1601.6	500-Year	271.88	285.48	282.87	285.74	0.004064	5.08	1614.81
TRIBUTARY C	1171.8	10-Year	269.94	281.94	277.33	282.14	0.004057	4.07	769.86
TRIBUTARY C	1171.8	25-Year	269.94	282.73	278.55	282.92	0.004052	4.18	1056.44
TRIBUTARY C	1171.8	50-Year	269.94	283.04	280.24	283.18	0.003095	3.78	1541.95
TRIBUTARY C	1171.8	100-Year	269.94	283.17	280.74	283.33	0.003588	4.13	1622.95
TRIBUTARY C	1171.8	500-Year	269.94	284.43	281.33	284.52	0.001955	3.44	2502.27
TRIBUTARY C	742	10-Year	268.00	280.60	275.72	280.73	0.002658	3.55	1079.78
TRIBUTARY C	742	25-Year	268.00	281.45	276.94	281.56	0.002506	3.44	1542.15
TRIBUTARY C	742	50-Year	268.00	281.95	278.89	282.04	0.002257	3.25	1871.32
TRIBUTARY C	742	100-Year	268.00	282.47	279.25	282.50	0.001115	2.30	2982.91
TRIBUTARY C	742	500-Year	268.00	284.07	279.68	284.09	0.000573	1.91	4452.53

BURTON CREEK TRIBUTARY C Plan: BURTON CREEK TRIB C EX COND

Tributary C Existing Condition



1 in Horiz. = 600 ft 1 in Vert. = 10 ft

HEC-RAS Plan: TRIB C FW River: Reach #2 Reach: TRIBUTARY C Profile: PF 2

Reach	River Sta	Prof Delta WS	Dist Center L	Enc Sta L	Ch Sta L	Center Station	Ch Sta R	Enc Sta R	Dist Center R	Encr WD
		(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
TRIBUTARY C	8444.71	0.02	58.76	2263.42	2263.42	2322.18	2380.94	2380.94	58.76	117.52
TRIBUTARY C	8323.19	0.01	37.00	1040.28	1040.28	1077.28	1114.27	1114.27	37.00	73.99
TRIBUTARY C	8286.75	-0.01	55.85	1053.73	1053.73	1109.58	1165.43	1165.43	55.85	111.70
TRIBUTARY C	8268.53	-0.01	51.90	1060.45	1060.45	1112.35	1164.24	1165.43	53.09	104.98
TRIBUTARY C	8211.82	Culvert								
TRIBUTARY C	8155.1	-0.09	55.27	1000.00	1000.00	1055.27	1110.54	1110.54	55.27	110.54
TRIBUTARY C	8148.29	-0.17	56.34	1000.00	1000.00	1056.35	1112.69	1112.69	56.34	112.69
TRIBUTARY C	8141.42	-0.15	57.42	1000.00	1000.00	1057.43	1114.85	1114.85	57.42	114.85
TRIBUTARY C	8134.58	-0.14	58.50	1000.00	1000.00	1058.50	1117.00	1117.00	58.50	117.00
TRIBUTARY C	8105.57	-0.34	58.71	997.14	997.14	1055.85	1114.55	1114.55	58.71	117.41
TRIBUTARY C	7351.31	0.32	64.01	922.72	922.72	986.73	1050.74	1050.74	64.01	128.02
TRIBUTARY C	6337.45	0.66	34.41	1000.00	1000.00	1034.42	1068.83	1068.83	34.41	68.83
TRIBUTARY C	5445.21	0.27	32.62	1000.00	1000.00	1032.62	1065.24	1065.24	32.62	65.24
TRIBUTARY C	4654.11	0.90	96.83	1000.00	1000.00	1096.83	1193.65	1194.00	97.17	194.00
TRIBUTARY C	4618.01 BR U	-0.35	-3100000000000000000000000000000000000.00		1000.00	1096.83	1193.65			0.00
TRIBUTARY C	4618.01 BR D	0.14	-3100000000000000000000000000000000000.00		1067.82	1149.12	1230.41			0.00
TRIBUTARY C	4581.92	1.00	81.30	1067.82	1067.82	1149.12	1230.41	1230.41	81.30	162.59
TRIBUTARY C	4524.86	0.78	20.38	1105.00	1105.29	1125.38	1145.47	1145.00	19.62	40.00
TRIBUTARY C	3814.21	0.32	42.47	1024.60	1024.60	1067.07	1109.53	1109.53	42.47	84.93
TRIBUTARY C	3438.53	0.49	43.94	1024.60	1024.99	1068.54	1112.08	1113.00	44.47	88.40
TRIBUTARY C	3262.85	0.70	45.01	1024.99	1025.38	1070.00	1114.62	1114.00	44.00	89.01
TRIBUTARY C	3067.17	0.82	46.09	1025.38	1025.77	1071.47	1117.17	1117.00	45.53	91.62
TRIBUTARY C	2911.49	0.88	46.93	1026.00	1026.15	1072.93	1119.71	1119.00	46.07	93.00
TRIBUTARY C	2735.81	0.92	59.40	1015.00	1026.54	1074.40	1122.26	1130.00	55.60	115.00
TRIBUTARY C	2560.13	0.93	56.32	1015.00	1026.93	1071.32	1115.70	1130.00	58.69	115.00
TRIBUTARY C	2031.4	0.78	38.32	1015.00	1026.61	1053.32	1080.02	1110.00	56.69	95.00
TRIBUTARY C	1601.8	0.91	81.57	975.00	1026.00	1056.57	1087.14	1140.00	83.43	165.00
TRIBUTARY C	1171.8	0.93	109.82	950.00	1025.38	1059.82	1094.25	1160.00	100.19	210.00
TRIBUTARY C	742	0.00	106.13	960.00	1030.89	1066.13	1101.37	1195.00	128.87	235.00