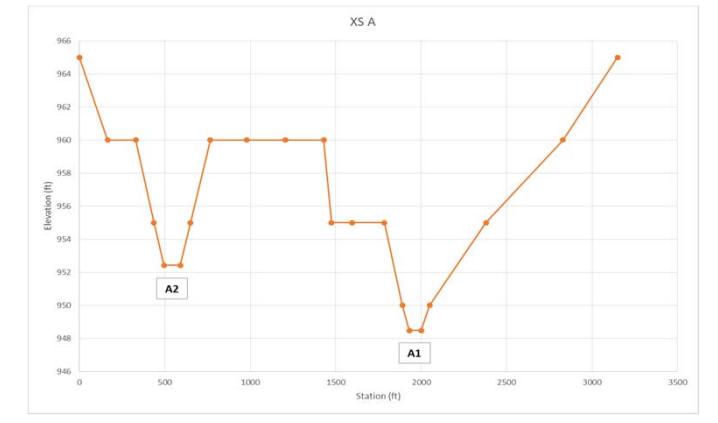
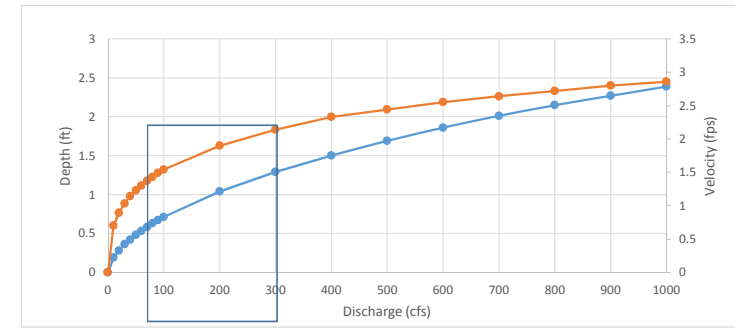


XS A

Q cfs	Dmax ft	Vel fps	Depth	Vel	Width	Fraction of total Q
0	0	0	0	0.8	1.7	121.6
10	0.19	0.7	138.5	0.8		
20	0.28	0.89	138.5	0.0		
30	0.36	1.03	0	1.2	2.1	144.3
40	0.42	1.14	277	1.2		
50	0.48	1.23	277	0.0		
60	0.53	1.3	0	2.9	3.1	283.3
70	0.58	1.37	1531	2.9		
80	0.63	1.43	1531	0.0		
90	0.67	1.49				
100	0.71	1.54				
200	1.04	1.9				
300	1.29	2.14				
400	1.5	2.33				
500	1.69	2.44				
600	1.86	2.55	0	1.9	2.6	193.3
700	2.01	2.64	615	1.9		
800	2.15	2.72	615	0.0		
900	2.27	2.8				
1000	2.39	2.86				

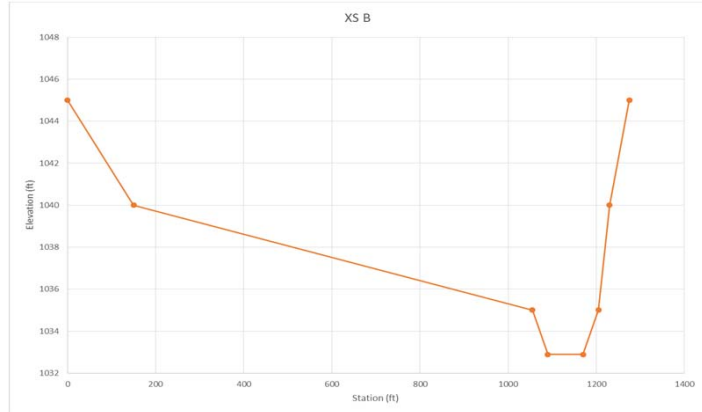
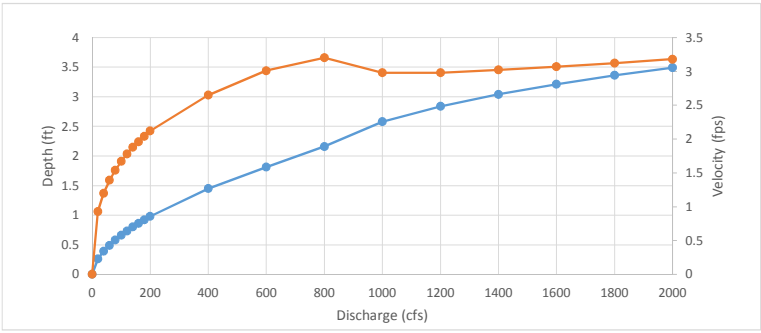


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Reach	River Sta	Profile	Q Total (cfs)	Min Ch (ft)	El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Max Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch (ft)	El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Max Chl Dpth (ft)	Mann Wtd	Total
XSA1	2 10 cfs	10	948.5	948.84	948.84	0.00642	0.37	26.82	90.1	0.12	0.34	XSA1	2 10 cfs	10	948.5	948.8	0.000556	0.42	23.87	88.12	0.14	0.3	0.035										
XSA1	2 20 cfs	20	948.5	948.96	948.96	0.00856	0.52	38.49	97.56	0.15	0.46	XSA1	2 20 cfs	20	948.5	948.91	0.000757	0.59	33.95	94.73	0.17	0.41	0.035										
XSA1	2 30 cfs	30	948.5	949.05	949.05	0.00991	0.62	48.07	103.29	0.16	0.55	XSA1	2 30 cfs	30	948.5	949	0.000884	0.71	42.2	99.82	0.19	0.5	0.035										
XSA1	2 40 cfs	40	948.5	949.13	949.13	0.01118	0.71	56.05	107.83	0.17	0.63	XSA1	2 40 cfs	40	948.5	949.07	0.000976	0.81	49.51	104.12	0.21	0.57	0.035										
XSA1	2 50 cfs	50	948.5	949.2	949.2	0.01192	0.78	63.84	112.07	0.18	0.7	XSA1	2 50 cfs	50	948.5	949.13	0.001051	0.89	56.15	107.88	0.22	0.63	0.035										
XSA1	2 60 cfs	60	948.5	949.26	949.26	0.0126	0.85	70.97	115.83	0.19	0.76	XSA1	2 60 cfs	60	948.5	949.18	0.001136	0.97	61.91	111.04	0.23	0.68	0.035										
XSA1	2 70 cfs	70	948.5	949.32	949.32	0.01318	0.9	77.7	119.27	0.2	0.82	XSA1	2 70 cfs	70	948.5	949.24	0.001187	1.03	67.77	114.16	0.24	0.74	0.035										
XSA1	2 80 cfs	80	948.5	949.37	949.37	0.0137	0.95	84.09	122.44	0.2	0.87	XSA1	2 80 cfs	80	948.5	949.28	0.001234	1.09	73.3	117.03	0.24	0.78	0.035										
XSA1	2 90 cfs	90	948.5	949.42	949.42	0.01417	1	90.2	125.4	0.21	0.92	XSA1	2 90 cfs	90	948.5	949.33	0.001275	1.15	78.59	119.71	0.25	0.83	0.035										
XSA1	2 100 cfs	100	948.5	949.47	949.47	0.0146	1.04	96.08	128.18	0.21	0.97	XSA1	2 100 cfs	100	948.5	949.37	0.001314	1.2	83.68	122.24	0.25	0.87	0.035										
XSA1	2 200 cfs	200	948.5	949.84	949.84	0.01748	1.36	146.97	150.12	0.24	1.34	XSA1	2 200 cfs	200	948.5	949.7	0.001576	1.57	127.56	142.15	0.29	1.2	0.035										
XSA1	2 300 cfs	300	948.5	950.11	950.11	0.01944	1.57	190.61	169.56	0.26	1.61	XSA1	2 300 cfs	300	948.5	949.95	0.001733	1.82	164.55	156.99	0.31	1.45	0.035										
XSA1	2 400 cfs	400	948.5	950.34	950.34	0.02101	1.73	231.26	189.27	0.28	1.84	XSA1	2 400 cfs	400	948.5	950.15	0.001889	2.02	198.32	173.47	0.33	1.65	0.035										
XSA1	2 500 cfs	500	948.5	950.54	950.54	0.02217	1.84	271.34	206.88	0.28	2.04	XSA1	2 500 cfs	500	948.5	950.33	0.001999	2.17	230.67	189	0.35	1.83	0.035										
XSA1	2 600 cfs	600	948.5	950.71	950.71	0.02226	1.94	309.12	222.2	0.29	2.21	XSA1	2 600 cfs	600	948.5	950.5	0.002057	2.28	262.64	203.19	0.35	2	0.035										
XSA1	2 700 cfs	700	948.5	950.87	950.87	0.02274	2.03	345.01	235.83	0.3	2.37	XSA1	2 700 cfs	700	948.5	950.64	0.0021	2.39	293.38	215.95	0.36	2.14	0.035										
XSA1	2 800 cfs	800	948.5	951.01	951.01	0.02317	2.11	379.37	248.18	0.3	2.51	XSA1	2 800 cfs	800	948.5	950.78	0.002139	2.48	322.77	227.48	0.37	2.28	0.035										
XSA1	2 900 cfs	900	948.5	951.14	951.14	0.02363	2.18	411.94	259.35	0.31	2.64	XSA1	2 900 cfs	900	948.5	950.9	0.002175	2.56	350.98	238.03	0.37	2.4	0.035										
XSA1	2 1000 cfs	1000	948.5	951.26	951.26	0.02398	2.25	443.94	269.87	0.31	2.76	XSA1	2 1000 cfs	1000	948.5	951.01	0.002206	2.64	378.34	247.82	0.38	2.51	0.035										
XSA1	1 10 cfs	10	948.5	948.69	948.58	0.004501	0.7	14.35	81.38	0.29	0.19	XSA1	1 10 cfs	10	948.5	948.66	0.004502	0.82	12.25	79.81	0.37	0.16	0.035										
XSA1	1 20 cfs	20	948.5	948.78	948.64	0.004501	0.89	22.35	87.08	0.31	0.28	XSA1	1 20 cfs	20	948.5	948.75	0.004504	1.05	19.01	84.74	0.39	0.25	0.035										
XSA1	1 30 cfs	30	948.5	948.86	948.67	0.004504	1.03	29.09	91.6	0.32	0.36	XSA1	1 30 cfs	30	948.5	948.81	0.004508	1.22	24.69	88.67	0.41	0.31	0.035										
XSA1	1 40 cfs	40	948.5	948.92	948.71	0.004501	1.14	35.16	95.49	0.33	0.42	XSA1	1 40 cfs	40	948.5	948.87	0.004502	1.34	29.79	92.06	0.42	0.37	0.035										
XSA1	1 50 cfs	50	948.5	948.98	948.74	0.004501	1.23	40.77	98.96	0.34	0.48	XSA1	1 50 cfs	50	948.5	948.92	0.004502	1.45	34.5	95.08	0.42	0.42	0.035										
XSA1	1 60 cfs	60	948.5	949.04	948.77	0.004507	1.3	46.03	102.1	0.34	0.53	XSA1	1 60 cfs	60	948.5	948.96	0.004501	1.54	38.94	97.84	0.43	0.46	0.035										
XSA1	1 70 cfs	70	948.5	949.08	948.8	0.004503	1.37	51.08	105.02	0.35	0.58	XSA1	1 70 cfs	70	948.5	949.01	0.004501	1.62	43.15	100.39	0.44	0.51	0.035										
XSA1	1 80 cfs	80	948.5	949.13	948.83	0.004503	1.43	55.92	107.75	0.35	0.63	XSA1	1 80 cfs	80	948.5	949.05	0.004504	1.7	47.18	102.77	0.44	0.55	0.035										
XSA1	1 90 cfs	90	948.5	949.17	948.85	0.004502	1.49	60.58	110.32	0.35	0.67	XSA1	1 90 cfs	90	948.5	949.08	0.004501	1.76	51.09	105.03	0.45	0.58	0.035										
XSA1	1 100 cfs	100	948.5	949.21	948.88	0.004508	1.54	65.07	112.73	0.36	0.71	XSA1	1 100 cfs	100	948.5	949.12	0.004501	1.82	54.87	107.16	0.45	0.62	0.035										
XSA1	1 200 cfs	200	948.5	949.54	949.08	0.004502	1.9	105.22	132.39	0.38	1.04	XSA1	1 200 cfs	200	948.5	949.41	0.004504	2.27	88.28	124.47	0.47	0.91	0.035										
XSA1	1 300 cfs	300	948.5	949.79	949.24	0.004501	2.14	140.08	147.34	0.39	1.29	XSA1	1 300 cfs	300	948.5	949.63	0.004501	2.56	117.27	137.74	0.49	1.13	0.035										
XSA1	1 400 cfs	400	948.5	950	949.38	0.004503	2.33	171.94	159.79	0.4	1.5	XSA1	1 400 cfs	400	948.5	949.81	0.004502	2.78	143.74	148.82	0.5	1.31	0.035										
XSA1	1 500 cfs	500	948.5	950.19	949.5	0.004507	2.44	204.54	176.56	0.4	1.69	XSA1	1 500 cfs	500	948.5	949.98	0.0045	2.97	168.55	158.51	0.51	1.48	0.035										
XSA1	1 600 cfs	600	948.5	950.36	949.61	0.004503	2.55	235.68	191.29	0.4	1.86	XSA1	1 600 cfs	600	948.5	950.13	0.004509	3.1	193.81	171.19	0.51	1.63	0.035										
XSA1	1 700 cfs	700	948.5	950.51	949.71	0.004501	2.64	265.49	204.4	0.41	2.01	XSA1	1 700 cfs	700	948.5	950.27	0.004502	3.2	218.61	183.36	0.52	1.77	0.035										
XSA1	1 800 cfs	800	948.5	950.65	949.81	0.0045	2.72	294.22	216.29	0.41	2.15	XSA1	1 800 cfs	800	948.5	950.39	0.004501	3.3	242.43	194.34	0.52	1.89	0.035										
XSA1	1 900 cfs	900	948.5	950.77	949.9	0.004503	2.8	321.97	227.17	0.41	2.27	XSA1	1 900 cfs	900	948.5	950.51	0.004507	3.39	265.35	204.34	0.52	2.01	0.035										
XSA1	1 1000 cfs	1000	948.5	950.89	949.98	0.004501	2.86	349.1	237.34	0.42	2.39	XSA1	1 1000 cfs	1000	948.5	950.62	0.004505	3.47	287.81	213.69	0.53	2.12	0.035										

XS B

Q cfs	Dmax ft	Vel fps	Depth	Vel	Width
0	0	0	0	1.2	2.4
20	0.26	0.93	277	1.2	
40	0.39	1.2	277	0.0	
60	0.49	1.39	0	1.7	2.9
80	0.58	1.54	554	1.7	
100	0.66	1.67	554	0.0	
120	0.73	1.78	0	4.1	3.4
140	0.8	1.88	3062	4.1	
160	0.86	1.96	3062	0.0	
180	0.92	2.04			
200	0.98	2.12			
400	1.45	2.65			
600	1.81	3.01			
800	2.16	3.2			
1000	2.58	2.98			
1200	2.84	2.98			
1400	3.04	3.02	0	2.9	3.0
1600	3.21	3.07	1230	2.9	
1800	3.36	3.12	1230	0.0	
2000	3.49	3.18			

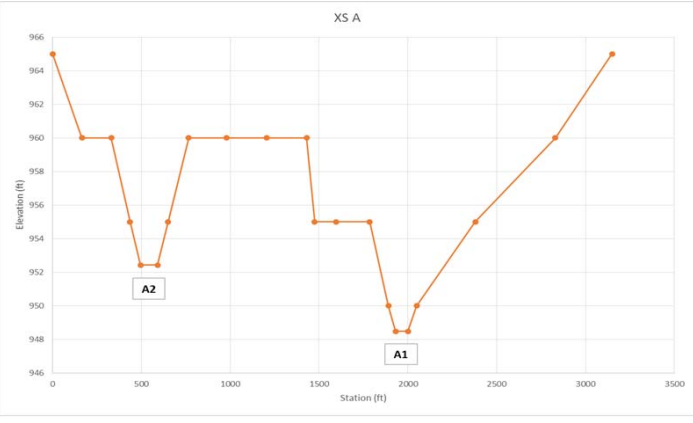
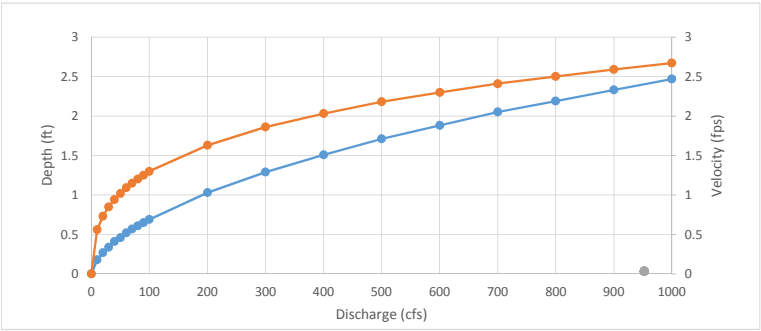


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0.0052
0.045

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Max	Chl D _f	Mann Wtd	Total
XSB	2	20 cfs	20	1033.9	1034.07		1034.1	0.021086	1.43	13.97	85.62	0.62	0.17	XSB	2	20 cfs	20	1033.9	1034.04		1034.09	0.021991	1.69	11.82	84.78	0.8	0.14	0.035			
XSB	2	40 cfs	40	1033.9	1034.16		1034.21	0.019511	1.82	21.98	88.69	0.64	0.26	XSB	2	40 cfs	40	1033.9	1034.12		1034.19	0.020403	2.16	18.54	87.39	0.83	0.22	0.035			
XSB	2	60 cfs	60	1033.9	1034.24		1034.31	0.018005	2.06	29.06	91.31	0.65	0.34	XSB	2	60 cfs	60	1033.9	1034.18	1034.16	1034.28	0.019799	2.49	24.09	89.48	0.85	0.28	0.035			
XSB	2	80 cfs	80	1033.9	1034.31		1034.39	0.017201	2.26	35.35	93.58	0.65	0.41	XSB	2	80 cfs	80	1033.9	1034.24		1034.36	0.01899	2.74	29.24	91.37	0.85	0.34	0.035			
XSB	2	100 cfs	100	1033.9	1034.37		1034.46	0.016369	2.42	41.4	95.71	0.65	0.47	XSB	2	100 cfs	100	1033.9	1034.3		1034.43	0.018106	2.93	34.17	93.16	0.85	0.39	0.035			
XSB	2	120 cfs	120	1033.9	1034.43		1034.53	0.015692	2.54	47.16	97.69	0.65	0.53	XSB	2	120 cfs	120	1033.9	1034.34		1034.49	0.01745	3.09	38.81	94.8	0.85	0.44	0.035			
XSB	2	140 cfs	140	1033.9	1034.49		1034.6	0.015162	2.66	52.66	99.55	0.64	0.59	XSB	2	140 cfs	140	1033.9	1034.39		1034.55	0.016967	3.24	43.21	96.34	0.85	0.49	0.035			
XSB	2	160 cfs	160	1033.9	1034.54		1034.66	0.01469	2.76	58	101.33	0.64	0.64	XSB	2	160 cfs	160	1033.9	1034.43	1034.38	1034.61	0.016509	3.37	47.49	97.81	0.85	0.53	0.035			
XSB	2	180 cfs	180	1033.9	1034.59		1034.72	0.014329	2.85	63.13	103	0.64	0.69	XSB	2	180 cfs	180	1033.9	1034.48	1034.42	1034.67	0.016132	3.49	51.61	99.2	0.85	0.58	0.035			
XSB	2	200 cfs	200	1033.9	1034.64		1034.77	0.013996	2.93	68.15	104.61	0.64	0.74	XSB	2	200 cfs	200	1033.9	1034.52	1034.45	1034.72	0.015788	3.59	55.64	100.54	0.85	0.62	0.035			
XSB	2	400 cfs	400	1033.9	1035.05		1035.24	0.011888	3.51	113.96	118.31	0.63	1.15	XSB	2	400 cfs	400	1033.9	1034.86		1035.15	0.013602	4.34	92.07	111.97	0.84	0.96	0.035			
XSB	2	600 cfs	600	1033.9	1035.38		1035.61	0.010967	3.89	154.23	129.16	0.63	1.47	XSB	2	600 cfs	600	1033.9	1035.13		1035.5	0.012603	4.84	123.98	121.1	0.84	1.23	0.035			
XSB	2	800 cfs	800	1033.9	1035.68		1035.94	0.009791	4.09	195.52	139.41	0.61	1.78	XSB	2	800 cfs	800	1033.9	1035.37		1035.79	0.011883	5.2	153.83	129.06	0.84	1.47	0.035			
XSB	2	1000 cfs	1000	1033.9	1036.05		1036.3	0.008151	4.02	248.81	158.81	0.57	2.15	XSB	2	1000 cfs	1000	1033.9	1035.59		1036.05	0.011361	5.49	182.13	136.17	0.84	1.69	0.035			
XSB	2	1200 cfs	1200	1033.9	1036.33		1036.58	0.009052	3.97	301.99	212.14	0.59	2.43	XSB	2	1200 cfs	1200	1033.9	1035.9		1036.33	0.008778	5.31	226.08	146.53	0.75	2	0.035			
XSB	2	1400 cfs	1400	1033.9	1036.55		1036.79	0.009369	3.99	350.88	251.38	0.6	2.65	XSB	2	1400 cfs	1400	1033.9	1036.13		1036.57	0.009127	5.33	262.76	174.39	0.77	2.23	0.035			
XSB	2	1600 cfs	1600	1033.9	1036.72		1036.97	0.009501	4.03	397.28	283.64	0.6	2.82	XSB	2	1600 cfs	1600	1033.9	1036.33		1036.77	0.009738	5.3	301.94	212.1	0.78	2.43	0.035			
XSB	2	1800 cfs	1800	1033.9	1036.87		1037.13	0.00954	4.07	442.24	311.73	0.6	2.97	XSB	2	1800 cfs	1800	1033.9	1036.5		1036.94	0.010024	5.31	338.8	242.27	0.79	2.6	0.035			
XSB	2	2000 cfs	2000	1033.9	1037		1037.27	0.009547	4.12	485.73	336.68	0.6	3.1	XSB	2	2000 cfs	2000	1033.9	1036.64		1037.08	0.010168	5.34	374.22	268.09	0.8	2.73	0.035			
XSB	1	20 cfs	20	1032.9	1033.16	1033.02	1033.17	0.005207	0.93	21.54	88.52	0.33	0.26	XSB	1	20 cfs	20	1032.9	1033.12	1033.02	1033.14	0.005206	1.09	18.43	87.34	0.42	0.22	0.035			
XSB	1	40 cfs	40	1032.9	1033.29	1033.1	1033.31	0.005203	1.2	33.28	92.84	0.35	0.39	XSB	1	40 cfs	40	1032.9	1033.23	1033.1	1033.26	0.005199	1.41	28.41	91.07	0.44	0.33	0.035			
XSB	1	60 cfs	60	1032.9	1033.39	1033.15	1033.42	0.0052	1.39	43.08	96.29	0.37	0.49	XSB	1	60 cfs	60	1032.9	1033.32	1033.16	1033.36	0.005201	1.63	36.7	94.06	0.46	0.42	0.035			
XSB	1	80 cfs	80	1032.9	1033.48	1033.2	1033.52	0.005203	1.54	51.82	99.27	0.38	0.58	XSB	1	80 cfs	80	1032.9	1033.4	1033.21	1033.45	0.005205	1.81	44.08	96.64	0.47	0.5	0.035			
XSB	1	100 cfs	100	1032.9	1033.56	1033.26	1033.6	0.0052	1.67	59.89	101.94	0.38	0.66	XSB	1	100 cfs	100	1032.9	1033.47	1033.26	1033.53	0.005206	1.97	50.88	98.95	0.48	0.57	0.035			
XSB	1	120 cfs	120	1032.9	1033.63	1033.3	1033.68	0.005204	1.78	67.43	104.38	0.39	0.73	XSB	1	120 cfs	120	1032.9	1033.53	1033.3	1033.6	0.005204	2.1	57.25	101.08	0.49	0.63	0.035			
XSB	1	140 cfs	140	1032.9	1033.7	1033.34	1033.75	0.005201	1.88	74.62	106.65	0.4	0.8	XSB	1	140 cfs	140	1032.9	1033.59	1033.34	1033.67	0.005202	2.21	63.29	103.05	0.5	0.69	0.035			
XSB	1	160 cfs	160	1032.9	1033.76	1033.38	1033.82	0.005209	1.96	81.44	108.76	0.4	0.86	XSB	1	160 cfs	160	1032.9	1033.65	1033.38	1033.73	0.005201	2.32	69.07	104.9	0.5	0.75	0.035			
XSB	1	180 cfs	180	1032.9	1033.82	1033.42	1033.89	0.005202	2.04	88.09	110.78	0.4	0.92	XSB	1	180 cfs	180	1032.9	1033.7	1033.42	1033.79	0.005201	2.41	74.62	106.65	0.51	0.8	0.035			
XSB	1	200 cfs	200	1032.9	1033.88	1033.46	1033.95	0.005201	2.12	94.49	112.69	0.41	0.98	XSB	1	200 cfs	200	1032.9	1033.75	1033.45	1033.85	0.005205	2.5	79.96	108.31	0.51	0.85	0.035			
XSB	1	400 cfs	400	1032.9	1034.35	1033.76	1034.46	0.00521	2.65	150.75	128.26	0.43	1.45	XSB	1	400 cfs	400	1032.9	1034.16	1033.76	1034.31	0.005205	3.15	127.1	121.96	0.54	1.26	0.035			
XSB	1	600 cfs	600	1032.9	1034.71	1034.01	1034.85	0.0052	3.01	199.44	140.34	0.44	1.81	XSB	1	600 cfs	600	1032.9	1034.48	1034.01	1034.68	0.005201	3.58	167.66	132.58	0.56	1.58	0.035			
XSB	1	800 cfs	800	1032.9	1035.06	1034.22	1035.21	0.005191	3.2	250.14	160.35	0.45	2.16	XSB	1	800 cfs	800	1032.9	1034.75	1034.22	1034.98	0.005208	3.91	204.43	141.52	0.57	1.85	0.035			
XSB	1	1000 cfs	1000	1032.9	1035.48	1034.41	1035.62	0.005202	2.98	335.77	239.93	0.44	2.58	XSB	1	1000 cfs	1000	1032.9	1034.98	1034.41	1035.26	0.0052	4.18	238.99	149.44	0.58	2.08	0.035			
XSB	1	1200 cfs	1200	1032.9	1035.74	1034.58	1035.87	0.005203	2.98	402.33	286.93	0.44	2.84	XSB	1	1200 cfs	1200	1032.9	1035.38	1034.58	1035.61	0.005208	3.86	311.01	219.91	0.57	2.48	0.035			
XSB	1	1400 cfs	1400	1032.9	1035.94	1034.74	1036.08	0.0052	3.02	463.46	324.15	0.45	3.04	XSB	1	1400 cfs	1400	1032.9	1035.61	1034.74	1035.83	0.005202	3.82	366.35	262.57	0.57	2.71	0.035			
XSB	1	1600 cfs	1600	1032.9	1036.11	1034.89	1036.25	0.005206	3.07	520.88	355.57	0.45	3.21	XSB	1	1600 cfs	1600	1032.9	1035.78	1034.89	1036.01	0.005207	3.84	416.13	295.74	0.57	2.88	0.035			
XSB	1	1800 cfs	1800	1032.9	1036.26	1035.1	1036.41	0.005201	3.12	576.37	383.5	0.45	3.36	XSB	1	1800 cfs	1800	1032.9	1035.94	1035.1	1036.17	0.005205	3.89	463.27	324.03	0.57	3.04	0.035			
XSB	1	2000 cfs	2000	1032.9	1036.39	1035.3	103																								

XS A			Depth	Vel	Width	Fraction of total Q	
Q cfs	Dmax ft	Vel fps	0	0.8	1.4	134.1	0.5
0	0	0	138.5	0.8			
10	0.18	0.56	138.5	0.0			
20	0.27	0.73					
30	0.34	0.85	0	1.2	1.8	152.2	
40	0.41	0.94	277	1.2			
50	0.46	1.02	277	0.0			
60	0.52	1.09					
70	0.57	1.15	0	3.1	3.0	235.4	
80	0.61	1.2	1531	3.1			
90	0.65	1.25	1531	0.0			
100	0.69	1.3					
200	1.03	1.63					
300	1.29	1.86					
400	1.51	2.03					
500	1.71	2.18					
600	1.88	2.3					
700	2.05	2.41	0	1.9	2.3	183.1	
800	2.19	2.5	615	1.9			
900	2.33	2.59	615	0.0			
1000	2.47	2.67					



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0.035 0.035 0.035

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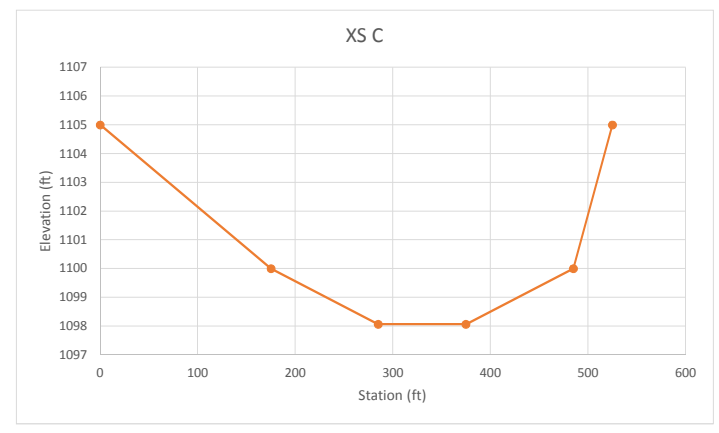
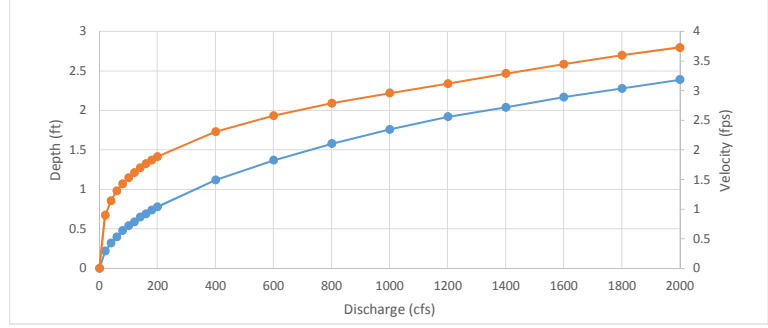
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Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Max Chl Dpth (ft)	0.045	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl Df	Mann Wtd	Total
XSA2	2 10 cfs	10	952.4	952.69	952.7	0.000568	0.33	29.97	108.59	0.11	0.29	XSA2	2 10 cfs	10	952.4	952.66	952.67	0.000505	0.38	26.56	107.13	0.13	0.26	0.035							
XSA2	2 20 cfs	20	952.4	952.81	952.81	0.000744	0.47	42.7	113.87	0.13	0.41	XSA2	2 20 cfs	20	952.4	952.76	952.77	0.000683	0.53	37.39	111.7	0.16	0.36	0.035							
XSA2	2 30 cfs	30	952.4	952.89	952.9	0.000871	0.57	52.66	117.84	0.15	0.49	XSA2	2 30 cfs	30	952.4	952.84	952.85	0.000788	0.65	46.28	115.31	0.18	0.44	0.035							
XSA2	2 40 cfs	40	952.4	952.97	952.98	0.000953	0.65	61.64	121.31	0.16	0.57	XSA2	2 40 cfs	40	952.4	952.91	952.92	0.000862	0.74	54.09	118.4	0.19	0.51	0.035							
XSA2	2 50 cfs	50	952.4	953.04	953.04	0.001021	0.72	69.7	124.33	0.17	0.64	XSA2	2 50 cfs	50	952.4	952.97	952.98	0.000925	0.82	61.1	121.1	0.2	0.57	0.035							
XSA2	2 60 cfs	60	952.4	953.09	953.1	0.00108	0.78	77.14	127.07	0.18	0.69	XSA2	2 60 cfs	60	952.4	953.02	953.03	0.000979	0.89	67.56	123.54	0.21	0.62	0.035							
XSA2	2 70 cfs	70	952.4	953.15	953.16	0.00113	0.83	84.12	129.58	0.18	0.75	XSA2	2 70 cfs	70	952.4	953.07	953.08	0.001026	0.95	73.6	125.77	0.22	0.67	0.035							
XSA2	2 80 cfs	80	952.4	953.2	953.21	0.001175	0.88	90.74	131.91	0.19	0.8	XSA2	2 80 cfs	80	952.4	953.11	953.13	0.001068	1.01	79.3	127.85	0.23	0.71	0.035							
XSA2	2 90 cfs	90	952.4	953.25	953.26	0.001215	0.93	97.04	134.1	0.19	0.85	XSA2	2 90 cfs	90	952.4	953.15	953.17	0.001105	1.06	84.76	129.8	0.23	0.75	0.035							
XSA2	2 100 cfs	100	952.4	953.29	953.31	0.00125	0.97	103.12	136.18	0.2	0.89	XSA2	2 100 cfs	100	952.4	953.19	953.21	0.001138	1.11	90	131.65	0.24	0.79	0.035							
XSA2	2 200 cfs	200	952.4	953.65	953.68	0.001487	1.29	155.4	152.87	0.22	1.25	XSA2	2 200 cfs	200	952.4	953.52	953.55	0.001364	1.48	134.84	146.53	0.27	1.12	0.035							
XSA2	2 300 cfs	300	952.4	953.93	953.96	0.001624	1.51	199.3	165.59	0.24	1.53	XSA2	2 300 cfs	300	952.4	953.76	953.81	0.001499	1.74	172.27	157.88	0.29	1.36	0.035							
XSA2	2 400 cfs	400	952.4	954.16	954.2	0.00172	1.68	238.7	176.23	0.25	1.76	XSA2	2 400 cfs	400	952.4	953.97	954.03	0.001592	1.94	205.81	167.4	0.31	1.57	0.035							
XSA2	2 500 cfs	500	952.4	954.36	954.41	0.001791	1.82	275.21	185.55	0.26	1.96	XSA2	2 500 cfs	500	952.4	954.15	954.22	0.001663	2.11	236.8	175.74	0.32	1.75	0.035							
XSA2	2 600 cfs	600	952.4	954.54	954.6	0.001847	1.94	309.6	193.92	0.27	2.14	XSA2	2 600 cfs	600	952.4	954.31	954.39	0.001724	2.26	265.69	183.17	0.33	1.91	0.035							
XSA2	2 700 cfs	700	952.4	954.71	954.77	0.001893	2.04	342.39	201.57	0.28	2.31	XSA2	2 700 cfs	700	952.4	954.46	954.55	0.00177	2.39	293.43	190.03	0.34	2.06	0.035							
XSA2	2 800 cfs	800	952.4	954.86	954.93	0.001933	2.14	373.73	208.62	0.28	2.46	XSA2	2 800 cfs	800	952.4	954.6	954.69	0.001811	2.5	319.9	196.35	0.35	2.2	0.035							
XSA2	2 900 cfs	900	952.4	955.01	955.08	0.001966	2.23	404.07	215.22	0.29	2.6	XSA2	2 900 cfs	900	952.4	954.72	954.83	0.001844	2.6	345.57	202.3	0.35	2.32	0.035							
XSA2	2 1000 cfs	1000	952.4	955.14	955.22	0.001992	2.31	433.4	221.13	0.29	2.74	XSA2	2 1000 cfs	1000	952.4	954.85	954.96	0.001874	2.7	370.37	207.88	0.36	2.45	0.035							
XSA2	1 10 cfs	10	952.4	952.58	952.47	952.58	0.003003	0.56	17.83	103.3	0.24	0.18	XSA2	1 10 cfs	10	952.4	952.55	952.47	952.56	0.003003	0.66	15.26	102.15	0.3	0.15	0.035					
XSA2	1 20 cfs	20	952.4	952.67	952.51	952.68	0.003001	0.73	27.47	107.52	0.25	0.27	XSA2	1 20 cfs	20	952.4	952.63	952.51	952.65	0.003001	0.85	23.47	105.79	0.32	0.23	0.035					
XSA2	1 30 cfs	30	952.4	952.74	952.54	952.76	0.003005	0.85	35.45	110.89	0.26	0.34	XSA2	1 30 cfs	30	952.4	952.7	952.54	952.71	0.003	0.99	30.26	108.71	0.33	0.3	0.035					
XSA2	1 40 cfs	40	952.4	952.81	952.57	952.82	0.003001	0.94	42.59	113.83	0.27	0.41	XSA2	1 40 cfs	40	952.4	952.75	952.57	952.77	0.003002	1.1	36.29	111.24	0.34	0.35	0.035					
XSA2	1 50 cfs	50	952.4	952.86	952.6	952.88	0.003001	1.02	49.14	116.45	0.28	0.46	XSA2	1 50 cfs	50	952.4	952.8	952.6	952.82	0.003004	1.2	41.82	113.51	0.35	0.4	0.035					
XSA2	1 60 cfs	60	952.4	952.92	952.63	952.94	0.003002	1.09	55.26	118.85	0.28	0.52	XSA2	1 60 cfs	60	952.4	952.85	952.63	952.87	0.003001	1.28	47.01	115.6	0.35	0.45	0.035					
XSA2	1 70 cfs	70	952.4	952.97	952.65	952.99	0.003001	1.15	61.08	121.09	0.28	0.57	XSA2	1 70 cfs	70	952.4	952.89	952.65	952.92	0.003001	1.35	51.91	117.54	0.36	0.49	0.035					
XSA2	1 80 cfs	80	952.4	953.01	952.67	953.03	0.003001	1.2	66.63	123.19	0.29	0.61	XSA2	1 80 cfs	80	952.4	952.93	952.67	952.96	0.003004	1.41	56.57	119.36	0.36	0.53	0.035					
XSA2	1 90 cfs	90	952.4	953.05	952.7	953.08	0.003002	1.25	71.96	125.17	0.29	0.65	XSA2	1 90 cfs	90	952.4	952.97	952.69	953	0.003002	1.47	61.07	121.09	0.37	0.57	0.035					
XSA2	1 100 cfs	100	952.4	953.09	952.72	953.12	0.003	1.3	77.13	127.06	0.29	0.69	XSA2	1 100 cfs	100	952.4	953	952.72	953.04	0.003001	1.53	65.42	122.73	0.37	0.6	0.035					
XSA2	1 200 cfs	200	952.4	953.43	952.89	953.47	0.003004	1.63	122.37	142.55	0.31	1.03	XSA2	1 200 cfs	200	952.4	953.29	952.89	953.35	0.003005	1.94	103.35	136.25	0.39	0.89	0.035					
XSA2	1 300 cfs	300	952.4	953.69	953.04	953.75	0.003	1.86	161.31	154.65	0.32	1.29	XSA2	1 300 cfs	300	952.4	953.52	953.04	953.6	0.003004	2.21	135.83	146.84	0.4	1.12	0.035					
XSA2	1 400 cfs	400	952.4	953.91	953.16	953.98	0.003002	2.03	196.62	164.85	0.33	1.51	XSA2	1 400 cfs	400	952.4	953.72	953.16	953.81	0.003001	2.42	165.36	155.85	0.41	1.32	0.035					
XSA2	1 500 cfs	500	952.4	954.11	953.28	954.18	0.003002	2.18	229.63	173.84	0.33	1.71	XSA2	1 500 cfs	500	952.4	953.89	953.28	954	0.003	2.59	192.87	163.79	0.42	1.49	0.035					
XSA2	1 600 cfs	600	952.4	954.28	953.38	954.37	0.003002	2.3	260.89	181.95	0.34	1.88	XSA2	1 600 cfs	600	952.4	954.05	953.38	954.16	0.003002	2.74	218.85	170.96	0.43	1.65	0.035					
XSA2	1 700 cfs	700	952.4	954.45	953.48	954.54	0.003001	2.41	290.84	189.4	0.34	2.05	XSA2	1 700 cfs	700	952.4	954.19	953.48	954.32	0.003	2.87	243.77	177.56	0.43	1.79	0.035					
XSA2	1 800 cfs	800	952.4	954.59	953.57	954.69	0.003004	2.5	319.51	196.26	0.35	2.19	XSA2	1 800 cfs	800	952.4	954.32	953.57	954.46	0.003005	2.99	267.56	183.64	0.44	1.92	0.035					
XSA2	1 900 cfs	900	952.4	954.73	953.66	954.84	0.003002	2.59	347.44	202.72	0.35	2.33	XSA2	1 900 cfs	900	952.4	954.45	953.66	954.59	0.003001	3.09	290.83	189.4	0.44	2.05	0.035					
XSA2	1 1000 cfs	1000	952.4	954.87	953.74	954.98	0.003001	2.67	374.56	208.81	0.35	2.47	XSA2	1 1000 cfs	1000	952.4	954.56	953.74	954.72	0.											

XS C

Q cfs	Dmax ft	Vel fps
0	0	0
20	0.22	0.9
40	0.32	1.14
60	0.4	1.31
80	0.48	1.43
100	0.54	1.53
120	0.59	1.62
140	0.65	1.7
160	0.69	1.77
180	0.74	1.83
200	0.78	1.89
400	1.12	2.31
600	1.37	2.58
800	1.58	2.79
1000	1.76	2.96
1200	1.92	3.12
1400	2.04	3.29
1600	2.17	3.45
1800	2.28	3.6
2000	2.39	3.73

Depth	Vel	Width
0	0.9	2.1
277	0.9	
277	0.0	
0	1.3	2.5



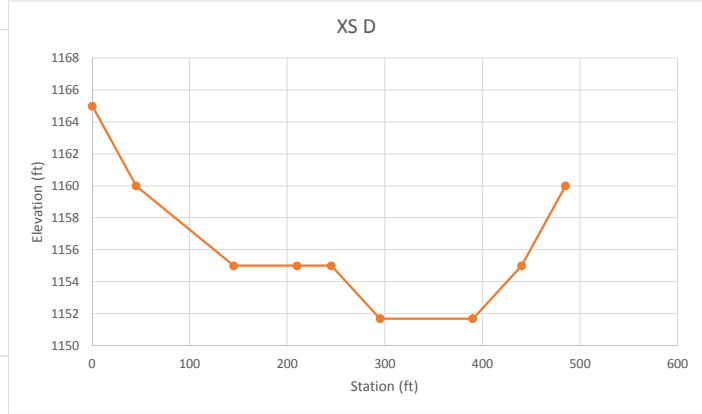
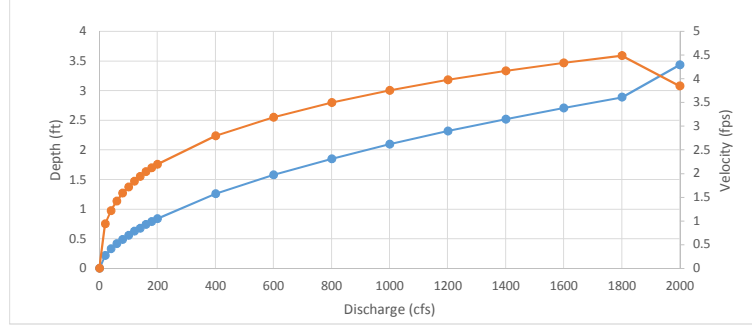
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0.0067		0.045		0.045										0.045															
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl (ft)	Df Mann	Wtd Total
XSC	2	20 cfs	20	1099.1	1099.27		1099.29	0.015091	1.17	17.06	109.77	0.52	0.17	XSC	2	20 cfs	20	1099.1	1099.25		1099.28	0.015463	1.39	14.41	106.95	0.67	0.15	0.035	
XSC	2	40 cfs	40	1099.1	1099.36		1099.39	0.014403	1.47	27.17	119.96	0.55	0.26	XSC	2	40 cfs	40	1099.1	1099.32		1099.37	0.014951	1.76	22.77	115.64	0.7	0.22	0.035	
XSC	2	60 cfs	60	1099.1	1099.43		1099.47	0.014002	1.67	35.87	128.09	0.56	0.33	XSC	2	60 cfs	60	1099.1	1099.38		1099.44	0.014445	2	30.04	122.71	0.71	0.28	0.035	
XSC	2	80 cfs	80	1099.1	1099.49		1099.54	0.01368	1.82	43.86	135.12	0.56	0.39	XSC	2	80 cfs	80	1099.1	1099.43		1099.51	0.014242	2.19	36.55	128.7	0.72	0.33	0.035	
XSC	2	100 cfs	100	1099.1	1099.55		1099.6	0.013252	1.94	51.58	141.58	0.57	0.45	XSC	2	100 cfs	100	1099.1	1099.48		1099.57	0.014007	2.34	42.69	134.11	0.73	0.38	0.035	
XSC	2	120 cfs	120	1099.1	1099.59		1099.66	0.013117	2.05	58.63	147.23	0.57	0.49	XSC	2	120 cfs	120	1099.1	1099.53		1099.62	0.013585	2.46	48.8	139.29	0.73	0.43	0.035	
XSC	2	140 cfs	140	1099.1	1099.64		1099.71	0.012995	2.14	65.39	152.46	0.58	0.54	XSC	2	140 cfs	140	1099.1	1099.56		1099.67	0.013517	2.58	54.29	143.78	0.74	0.46	0.035	
XSC	2	160 cfs	160	1099.1	1099.68		1099.76	0.012706	2.21	72.28	157.6	0.58	0.58	XSC	2	160 cfs	160	1099.1	1099.6		1099.71	0.013422	2.68	59.64	148.02	0.75	0.5	0.035	
XSC	2	180 cfs	180	1099.1	1099.72		1099.81	0.012623	2.29	78.63	162.2	0.58	0.62	XSC	2	180 cfs	180	1099.1	1099.64		1099.76	0.013344	2.78	64.8	152.01	0.75	0.54	0.035	
XSC	2	200 cfs	200	1099.1	1099.76		1099.85	0.012563	2.36	84.77	166.52	0.58	0.66	XSC	2	200 cfs	200	1099.1	1099.67		1099.8	0.013245	2.86	69.87	155.82	0.75	0.57	0.035	
XSC	2	400 cfs	400	1099.1	1100.07		1100.19	0.011727	2.82	141.79	202.33	0.59	0.97	XSC	2	400 cfs	400	1099.1	1099.94		1100.12	0.012592	3.46	115.6	186.74	0.78	0.84	0.035	
XSC	2	600 cfs	600	1099.1	1100.3		1100.45	0.011523	3.14	190.94	228.73	0.61	1.2	XSC	2	600 cfs	600	1099.1	1100.14		1100.37	0.012303	3.86	155.64	210.1	0.79	1.04	0.035	
XSC	2	800 cfs	800	1099.1	1100.49		1100.67	0.011218	3.37	237.48	251.19	0.61	1.39	XSC	2	800 cfs	800	1099.1	1100.31		1100.58	0.011956	4.14	193.43	229.99	0.8	1.21	0.035	
XSC	2	1000 cfs	1000	1099.1	1100.66		1100.86	0.010984	3.55	281.54	270.74	0.61	1.56	XSC	2	1000 cfs	1000	1099.1	1100.46		1100.75	0.011733	4.37	228.9	247.2	0.8	1.36	0.035	
XSC	2	1200 cfs	1200	1099.1	1100.81		1101.03	0.010823	3.71	323.42	288.09	0.62	1.71	XSC	2	1200 cfs	1200	1099.1	1100.59		1100.92	0.011555	4.57	262.82	262.61	0.8	1.49	0.035	
XSC	2	1400 cfs	1400	1099.1	1100.94		1101.17	0.010853	3.87	361.74	303.1	0.62	1.84	XSC	2	1400 cfs	1400	1099.1	1100.71		1101.06	0.01141	4.74	295.47	276.63	0.81	1.61	0.035	
XSC	2	1600 cfs	1600	1099.1	1101.06		1101.31	0.010788	4.03	397.4	312.4	0.63	1.96	XSC	2	1600 cfs	1600	1099.1	1100.82		1101.2	0.011289	4.89	327.05	289.55	0.81	1.72	0.035	
XSC	2	1800 cfs	1800	1099.1	1101.16		1101.43	0.010627	4.18	430.94	316.99	0.63	2.06	XSC	2	1800 cfs	1800	1099.1	1100.92		1101.32	0.011347	5.06	355.88	300.86	0.82	1.82	0.035	
XSC	2	2000 cfs	2000	1099.1	1101.26		1101.55	0.010484	4.32	463.47	321.37	0.63	2.16	XSC	2	2000 cfs	2000	1099.1	1101.01		1101.43	0.011343	5.21	383.98	310.55	0.83	1.91	0.035	
XSC	1	20 cfs	20	1098.1	1098.32	1098.21	1098.33	0.006699	0.9	22.18	115.05	0.36	0.22	XSC	1	20 cfs	20	1098.1	1098.29	1098.21	1098.3	0.006702	1.06	18.84	111.64	0.46	0.19	0.035	
XSC	1	40 cfs	40	1098.1	1098.42	1098.27	1098.44	0.006709	1.14	34.99	127.29	0.38	0.32	XSC	1	40 cfs	40	1098.1	1098.38	1098.27	1098.41	0.006701	1.35	29.62	122.31	0.48	0.28	0.035	
XSC	1	60 cfs	60	1098.1	1098.51	1098.33	1098.53	0.006711	1.31	45.93	136.88	0.4	0.4	XSC	1	60 cfs	60	1098.1	1098.45	1098.33	1098.49	0.006711	1.55	38.78	130.69	0.5	0.35	0.035	
XSC	1	80 cfs	80	1098.1	1098.58	1098.37	1098.61	0.0067	1.43	55.9	145.07	0.41	0.48	XSC	1	80 cfs	80	1098.1	1098.51	1098.37	1098.56	0.006699	1.7	47.11	137.87	0.51	0.41	0.035	
XSC	1	100 cfs	100	1098.1	1098.64	1098.41	1098.67	0.006702	1.53	65.15	152.28	0.41	0.54	XSC	1	100 cfs	100	1098.1	1098.57	1098.41	1098.62	0.006698	1.82	54.84	144.22	0.52	0.47	0.035	
XSC	1	120 cfs	120	1098.1	1098.69	1098.45	1098.74	0.006704	1.62	73.91	158.79	0.42	0.59	XSC	1	120 cfs	120	1098.1	1098.62	1098.45	1098.68	0.006708	1.93	62.11	149.94	0.53	0.52	0.035	
XSC	1	140 cfs	140	1098.1	1098.75	1098.49	1098.79	0.006713	1.7	82.24	164.76	0.42	0.65	XSC	1	140 cfs	140	1098.1	1098.66	1098.49	1098.73	0.006704	2.03	69.09	155.24	0.54	0.56	0.035	
XSC	1	160 cfs	160	1098.1	1098.79	1098.52	1098.84	0.006707	1.77	90.32	170.34	0.43	0.69	XSC	1	160 cfs	160	1098.1	1098.71	1098.52	1098.78	0.0067	2.11	75.81	160.18	0.54	0.61	0.035	
XSC	1	180 cfs	180	1098.1	1098.84	1098.55	1098.89	0.006703	1.83	98.13	175.57	0.43	0.74	XSC	1	180 cfs	180	1098.1	1098.75	1098.55	1098.82	0.006699	2.19	82.3	164.8	0.55	0.65	0.035	
XSC	1	200 cfs	200	1098.1	1098.88	1098.58	1098.94	0.006704	1.89	105.69	180.49	0.44	0.78	XSC	1	200 cfs	200	1098.1	1098.78	1098.58	1098.86	0.006711	2.26	88.54	169.12	0.55	0.68	0.035	
XSC	1	400 cfs	400	1098.1	1099.22	1098.82	1099.3	0.006709	2.31	173.23	219.58	0.46	1.12	XSC	1	400 cfs	400	1098.1	1099.08	1098.82	1099.2	0.006703	2.76	144.69	203.98	0.58	0.98	0.035	
XSC	1	600 cfs	600	1098.1	1099.47	1099.01	1099.58	0.006701	2.58	232.35	248.81	0.47	1.37	XSC	1	600 cfs	600	1098.1	1099.31	1099.01	1099.46	0.006706	3.1	193.63	230.08	0.6	1.21	0.035	
XSC	1	800 cfs	800	1098.1	1099.68	1099.16	1099.8	0.006705	2.79	286.45	272.83	0.48	1.58	XSC	1	800 cfs	800	1098.1	1099.5	1099.16	1099.67	0.006702	3.35	238.56	251.68	0.61	1.4	0.035	
XSC	1	1000 cfs	1000	1098.1	1099.86	1099.3	1100	0.006703	2.96	337.27	293.6	0.49	1.76	XSC	1	1000 cfs	1000	1098.1	1099.66	1099.3	1099.86	0.006707	3.56	280.58	270.33	0.62	1.56	0.035	
XSC	1	1200 cfs	1200	1098.1	1100.02	1099.42	1100.17	0.006701	3.12	384.89	310.68	0.49	1.92	XSC	1	1200 cfs	1200	1098.1	1099.8	1099.42	1100.02	0.006703	3.74	320.65	286.98	0.62	1.7	0.035	
XSC	1	1400 cfs	1400	1098.1	1100.14	1099.54	1100.31	0.006707	3.29	425.07	316.19	0.5	2.04	XSC	1	1400 cfs	1400	1098.1	1099.93	1099.54	1100.17	0.006704	3.9	358.97	302.04	0.63	1.83	0.035	
XSC	1	1600 cfs	1600	1098.1	1100.27	1099.64	1100.45	0.006701	3.45	463.67	321.4	0.51	2.17	XSC	1	1600 cfs	1600	1098.1	1100.05	1099.64	1100.3	0.006704	4.06	393.97	311.93	0.64	1.94	0.035	
XSC	1	1800 cfs	1800	1098.1	1100.38	1099.74	1100.58	0.0067	3.6	500.67	326.31	0.51	2.28	XSC	1	1800 cfs	1800	1098.1	1100.14	1099.74	1100.42	0.006703	4.23	425.14	316.2	0.64	2.04	0.035	
XSC	1	2000 cfs	2000	1098.1	1100.49	1099.83	1100.7	0.006702	3.73	536.34	330.98	0.52	2.39	XSC	1	2000 cfs	2000	1098.1	1100.24	1099.83	1100.54	0.006701	4.39	455.25	320.27	0.65	2.14	0.035	

XSD

Q cfs	Dmax ft	Vel fps
0	0	0
20	0.22	0.94
40	0.33	1.22
60	0.42	1.42
80	0.49	1.59
100	0.56	1.72
120	0.63	1.84
140	0.68	1.94
160	0.74	2.04
180	0.79	2.12
200	0.84	2.2
400	1.26	2.8
600	1.58	3.19
800	1.85	3.5
1000	2.1	3.76
1200	2.32	3.98
1400	2.52	4.17
1600	2.71	4.34
1800	2.89	4.49
2000	3.44	3.85

Depth	Vel	Width
0	1.0	2.5
277	1.0	126.2
277	0.0	
0	1.5	3.1
		140.9



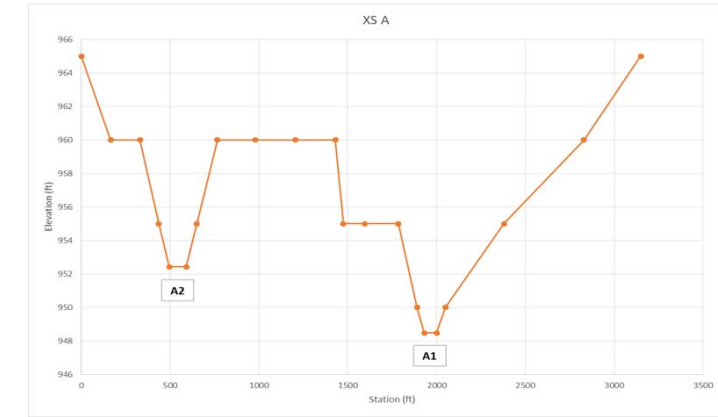
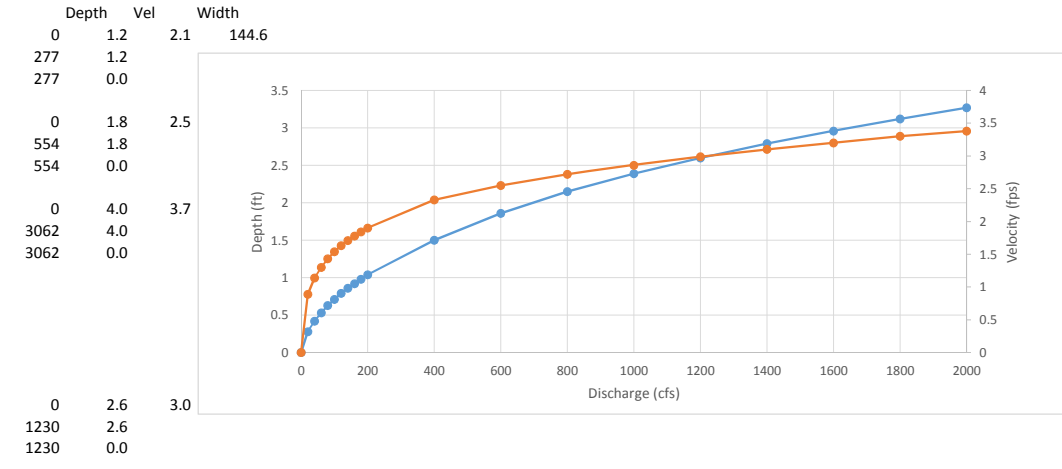
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0.045

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Max Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Max Chl Dpth (ft)	C Max Chl Dpth (ft)	Mann Wtd	Total
XSD	2	20 cfs	20	1152.69	1152.86		1152.88	0.01519	1.22	16.41	100.08	0.53	0.17		XSD	2	20 cfs	20	1152.69	1152.83		1152.86	0.015629	1.43	13.95	99.33	0.67	0.14	0.035		
XSD	2	40 cfs	40	1152.69	1152.95		1152.98	0.014488	1.57	25.5	102.78	0.56	0.26		XSD	2	40 cfs	40	1152.69	1152.91		1152.96	0.015054	1.85	21.58	101.63	0.71	0.22	0.035		
XSD	2	60 cfs	60	1152.69	1153.02		1153.07	0.013956	1.81	33.17	105.01	0.57	0.33		XSD	2	60 cfs	60	1152.69	1152.97		1153.04	0.014586	2.14	27.99	103.51	0.73	0.28	0.035		
XSD	2	80 cfs	80	1152.69	1153.08		1153.15	0.013592	2	40.03	106.97	0.58	0.4		XSD	2	80 cfs	80	1152.69	1153.03		1153.11	0.014217	2.37	33.73	105.18	0.74	0.34	0.035		
XSD	2	100 cfs	100	1152.69	1153.14		1153.22	0.013293	2.16	46.37	108.74	0.58	0.46		XSD	2	100 cfs	100	1152.69	1153.08		1153.18	0.013963	2.56	39	106.68	0.75	0.39	0.035		
XSD	2	120 cfs	120	1152.69	1153.2		1153.28	0.012878	2.28	52.55	110.45	0.58	0.51		XSD	2	120 cfs	120	1152.69	1153.12		1153.24	0.013732	2.73	43.95	108.07	0.75	0.43	0.035		
XSD	2	140 cfs	140	1152.69	1153.25		1153.34	0.01301	2.42	57.76	111.86	0.59	0.56		XSD	2	140 cfs	140	1152.69	1153.16		1153.29	0.013538	2.88	48.65	109.37	0.76	0.48	0.035		
XSD	2	160 cfs	160	1152.69	1153.3		1153.4	0.012754	2.53	63.29	113.34	0.6	0.61		XSD	2	160 cfs	160	1152.69	1153.21		1153.35	0.013207	3	53.35	110.66	0.76	0.52	0.035		
XSD	2	180 cfs	180	1152.69	1153.35		1153.45	0.012226	2.6	69.17	114.9	0.59	0.66		XSD	2	180 cfs	180	1152.69	1153.24		1153.4	0.013395	3.15	57.23	111.72	0.77	0.55	0.035		
XSD	2	200 cfs	200	1152.69	1153.39		1153.5	0.012132	2.7	74.19	116.21	0.59	0.7		XSD	2	200 cfs	200	1152.69	1153.28		1153.44	0.013194	3.25	61.49	112.86	0.78	0.59	0.035		
XSD	2	400 cfs	400	1152.69	1153.76		1153.94	0.011306	3.36	119.14	127.36	0.61	1.07		XSD	2	400 cfs	400	1152.69	1153.6		1153.85	0.012133	4.05	98.75	122.43	0.8	0.91	0.035		
XSD	2	600 cfs	600	1152.69	1154.06		1154.28	0.010771	3.79	158.47	136.36	0.62	1.37		XSD	2	600 cfs	600	1152.69	1153.85		1154.18	0.011649	4.59	130.61	130.05	0.81	1.16	0.035		
XSD	2	800 cfs	800	1152.69	1154.32		1154.58	0.010394	4.11	194.63	144.14	0.62	1.63		XSD	2	800 cfs	800	1152.69	1154.07		1154.46	0.011368	5.02	159.47	136.58	0.82	1.38	0.035		
XSD	2	1000 cfs	1000	1152.69	1154.54		1154.84	0.010159	4.38	228.26	151.03	0.63	1.86		XSD	2	1000 cfs	1000	1152.69	1154.26		1154.71	0.011013	5.34	187.26	142.59	0.82	1.58	0.035		
XSD	2	1200 cfs	1200	1152.69	1154.76		1155.08	0.009909	4.6	260.85	157.41	0.63	2.07		XSD	2	1200 cfs	1200	1152.69	1154.44		1154.94	0.010794	5.63	213.33	148.01	0.83	1.76	0.035		
XSD	2	1400 cfs	1400	1152.69	1154.95		1155.31	0.00974	4.8	291.83	163.24	0.63	2.26		XSD	2	1400 cfs	1400	1152.69	1154.61		1155.15	0.010615	5.87	238.34	153.03	0.83	1.92	0.035		
XSD	2	1600 cfs	1600	1152.69	1155.13		1155.51	0.009598	4.97	321.77	168.69	0.63	2.44		XSD	2	1600 cfs	1600	1152.69	1154.77		1155.34	0.010465	6.1	262.48	157.72	0.83	2.08	0.035		
XSD	2	1800 cfs	1800	1152.69	1155.3		1155.71	0.009475	5.13	350.85	173.81	0.64	2.61		XSD	2	1800 cfs	1800	1152.69	1154.91		1155.53	0.010335	6.3	285.91	162.14	0.84	2.22	0.035		
XSD	2	2000 cfs	2000	1152.69	1155.72		1156.06	0.006683	4.68	426.96	186.57	0.55	3.03		XSD	2	2000 cfs	2000	1152.69	1155.05		1155.7	0.010223	6.48	308.71	166.33	0.84	2.36	0.035		
XSD	1	20 cfs	20	1151.7	1151.92	1151.81	1151.93	0.006508	0.94	21.28	101.56	0.36	0.22		XSD	1	20 cfs	20	1151.7	1151.89	1151.81	1151.91	0.006498	1.1	18.25	100.65	0.45	0.19	0.035		
XSD	1	40 cfs	40	1151.7	1152.03	1151.88	1152.05	0.006503	1.22	32.69	104.91	0.39	0.33		XSD	1	40 cfs	40	1151.7	1151.98	1151.88	1152.01	0.006501	1.43	27.97	103.54	0.49	0.28	0.035		
XSD	1	60 cfs	60	1151.7	1152.12	1151.93	1152.15	0.006503	1.42	42.12	107.6	0.4	0.42		XSD	1	60 cfs	60	1151.7	1152.06	1151.93	1152.1	0.006506	1.67	35.98	105.86	0.5	0.36	0.035		
XSD	1	80 cfs	80	1151.7	1152.19	1151.98	1152.23	0.006509	1.59	50.47	109.93	0.41	0.49		XSD	1	80 cfs	80	1151.7	1152.13	1151.98	1152.18	0.006503	1.86	43.09	107.87	0.52	0.42	0.035		
XSD	1	100 cfs	100	1151.7	1152.26	1152.02	1152.31	0.0065	1.72	58.16	112.03	0.42	0.56		XSD	1	100 cfs	100	1151.7	1152.18	1152.02	1152.25	0.006507	2.02	49.58	109.68	0.53	0.48	0.035		
XSD	1	120 cfs	120	1151.7	1152.33	1152.06	1152.38	0.006503	1.84	65.32	113.95	0.43	0.63		XSD	1	120 cfs	120	1151.7	1152.24	1152.06	1152.31	0.0065	2.16	55.67	111.35	0.54	0.54	0.035		
XSD	1	140 cfs	140	1151.7	1152.38	1152.1	1152.44	0.006501	1.94	72.11	115.74	0.43	0.68		XSD	1	140 cfs	140	1151.7	1152.29	1152.1	1152.37	0.0065	2.28	61.4	112.9	0.55	0.59	0.035		
XSD	1	160 cfs	160	1151.7	1152.44	1152.13	1152.5	0.006503	2.04	78.57	117.42	0.44	0.74		XSD	1	160 cfs	160	1151.7	1152.34	1152.13	1152.43	0.006512	2.39	66.83	114.35	0.55	0.64	0.035		
XSD	1	180 cfs	180	1151.7	1152.49	1152.17	1152.56	0.0065	2.12	84.79	119.01	0.44	0.79		XSD	1	180 cfs	180	1151.7	1152.38	1152.17	1152.48	0.006505	2.5	72.09	115.73	0.56	0.68	0.035		
XSD	1	200 cfs	200	1151.7	1152.54	1152.2	1152.62	0.006506	2.2	90.75	120.52	0.45	0.84		XSD	1	200 cfs	200	1151.7	1152.43	1152.2	1152.53	0.006503	2.59	77.15	117.05	0.56	0.73	0.035		
XSD	1	400 cfs	400	1151.7	1152.96	1152.48	1153.08	0.006509	2.8	143.09	133.03	0.48	1.26		XSD	1	400 cfs	400	1151.7	1152.79	1152.48	1152.96	0.006508	3.3	121.16	127.94	0.6	1.09	0.035		
XSD	1	600 cfs	600	1151.7	1153.28	1152.71	1153.44	0.006502	3.19	187.85	142.86	0.49	1.58		XSD	1	600 cfs	600	1151.7	1153.07	1152.71	1153.29	0.006501	3.78	158.65	136.53	0.62	1.37	0.035		
XSD	1	800 cfs	800	1151.7	1153.56	1152.91	1153.75	0.006506	3.5	228.32	151.2	0.5	1.85		XSD	1	800 cfs	800	1151.7	1153.31	1152.92	1153.58	0.006504	4.16	192.5	143.85	0.63	1.61	0.035		
XSD	1	1000 cfs	1000	1151.7	1153.8	1153.09	1154.02	0.006501	3.76	266.14	158.6	0.51	2.1		XSD	1	1000 cfs	1000	1151.7	1153.53	1153.09	1153.84	0.006501	4.46	224.03	150.34	0.64	1.83	0.035		
XSD	1	1200 cfs	1200	1151.7	1154.02	1153.25	1154.27	0.006504	3.98	301.8	165.27	0.52	2.32		XSD	1	1200 cfs	1200	1151.7	1153.72	1153.26	1154.07	0.006502	4.73	253.8	156.23	0.65	2.02	0.035		
XSD	1	1400 cfs	1400	1151.7	1154.22	1153.41	1154.49	0.006509	4.17	335.83	171.4	0.52	2.52		XSD	1	1400 cfs	1400	1151.7	1153.9	1153.41	1154.28	0.006512	4.96	282.07	161.62	0.66	2.2	0.035		
XSD	1	1600 cfs	1600	1151.7	1154.41	1153.55	1154.7	0.006507	4.34	368.69	177.12	0.53	2.71		XSD	1	1600 cfs	1600	1151.7	1154.07	1153.55	1154.48	0.006509	5.17	309.44	166.67	0.67	2.37	0.035		
XSD	1	1800 cfs	1800	1151.7	1154.59	1153.69	1154.9	0.006501	4.49	400.56	182.49	0.53	2.89		XSD	1	1800 cfs	1800	1151.7	1154.22	1153.69	1154.67	0.006504	5.36	335.93	171.42	0.67	2.52	0.035		

XS A

Q cfs	Dmax ft	Vel fps
0	0	0
20	0.28	0.89
40	0.42	1.14
60	0.53	1.3
80	0.63	1.43
100	0.71	1.54
120	0.79	1.63
140	0.86	1.71
160	0.92	1.78
180	0.98	1.84
200	1.04	1.9
400	1.5	2.33
600	1.86	2.55
800	2.15	2.72
1000	2.39	2.86
1200	2.6	2.99
1400	2.79	3.1
1600	2.96	3.2
1800	3.12	3.3
2000	3.27	3.38



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0.035
0.035
0.035

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)
XSA	2	20 cfs	20	949.5	949.67		949.71	0.026711	1.58	12.67	80.13	0.7	0.17
XSA	2	40 cfs	40	949.5	949.76		949.82	0.023178	1.94	20.61	85.86	0.7	0.26
XSA	2	60 cfs	60	949.5	949.84		949.92	0.021268	2.18	27.55	90.59	0.7	0.34
XSA	2	80 cfs	80	949.5	949.91		950	0.020022	2.36	33.94	94.73	0.69	0.41
XSA	2	100 cfs	100	949.5	949.98		950.07	0.018708	2.48	40.25	98.64	0.69	0.48
XSA	2	120 cfs	120	949.5	950.04		950.14	0.017756	2.59	46.27	102.24	0.68	0.54
XSA	2	140 cfs	140	949.5	950.09		950.21	0.016992	2.69	52.1	105.6	0.67	0.59
XSA	2	160 cfs	160	949.5	950.15		950.27	0.016365	2.77	57.77	108.77	0.67	0.65
XSA	2	180 cfs	180	949.5	950.2		950.32	0.015811	2.84	63.33	111.8	0.67	0.7
XSA	2	200 cfs	200	949.5	950.24		950.38	0.015366	2.91	68.74	114.67	0.66	0.74
XSA	2	400 cfs	400	949.5	950.64		950.82	0.012598	3.35	119.31	138.62	0.64	1.14
XSA	2	600 cfs	600	949.5	950.96		951.16	0.011095	3.6	166.45	157.71	0.62	1.46
XSA	2	800 cfs	800	949.5	951.23		951.45	0.010555	3.78	211.73	180.07	0.61	1.73
XSA	2	1000 cfs	1000	949.5	951.46		951.7	0.010165	3.92	255.32	200.03	0.61	1.96
XSA	2	1200 cfs	1200	949.5	951.66		951.91	0.009856	4.04	297.3	217.52	0.61	2.16
XSA	2	1400 cfs	1400	949.5	951.84		952.11	0.009595	4.14	338.06	233.25	0.61	2.34
XSA	2	1600 cfs	1600	949.5	952.01		952.29	0.009378	4.24	377.68	247.59	0.6	2.51
XSA	2	1800 cfs	1800	949.5	952.16		952.45	0.009192	4.32	416.36	260.83	0.6	2.66
XSA	2	2000 cfs	2000	949.5	952.3		952.6	0.009026	4.4	454.3	273.19	0.6	2.8
XSA	1	20 cfs	20	948.5	948.78	948.63	948.8	0.004501	0.89	22.35	87.08	0.31	0.28
XSA	1	40 cfs	40	948.5	948.92	948.71	948.95	0.004501	1.14	35.16	95.49	0.33	0.42
XSA	1	60 cfs	60	948.5	949.04	948.77	949.06	0.004507	1.3	46.03	102.1	0.34	0.53
XSA	1	80 cfs	80	948.5	949.13	948.83	949.16	0.004503	1.43	55.92	107.75	0.35	0.63
XSA	1	100 cfs	100	948.5	949.21	948.88	949.25	0.004508	1.54	65.07	112.73	0.36	0.71
XSA	1	120 cfs	120	948.5	949.29	948.92	949.33	0.004504	1.63	73.77	117.27	0.36	0.79
XSA	1	140 cfs	140	948.5	949.36	948.96	949.4	0.004501	1.71	82.07	121.45	0.37	0.86
XSA	1	160 cfs	160	948.5	949.42	949	949.47	0.0045	1.78	90.05	125.32	0.37	0.92
XSA	1	180 cfs	180	948.5	949.48	949.04	949.54	0.004508	1.84	97.7	128.93	0.37	0.98
XSA	1	200 cfs	200	948.5	949.54	949.08	949.6	0.004502	1.9	105.22	132.39	0.38	1.04
XSA	1	400 cfs	400	948.5	950	949.38	950.08	0.004503	2.33	171.94	159.79	0.4	1.5
XSA	1	600 cfs	600	948.5	950.36	949.61	950.46	0.004503	2.55	235.68	191.29	0.4	1.86
XSA	1	800 cfs	800	948.5	950.65	949.81	950.76	0.0045	2.72	294.22	216.29	0.41	2.15
XSA	1	1000 cfs	1000	948.5	950.89	949.98	951.02	0.004501	2.86	349.1	237.34	0.42	2.39
XSA	1	1200 cfs	1200	948.5	951.1	950.15	951.24	0.004509	2.99	401	255.66	0.42	2.6
XSA	1	1400 cfs	1400	948.5	951.29	950.29	951.44	0.004504	3.1	451.18	272.2	0.42	2.79
XSA	1	1600 cfs	1600	948.5	951.46	950.43	951.62	0.004504	3.2	499.39	287.19	0.43	2.96
XSA	1	1800 cfs	1800	948.5	951.62	950.55	951.79	0.004504	3.3	546.15	301.02	0.43	3.12
XSA	1	2000 cfs	2000	948.5	951.77	950.67	951.95	0.0045	3.38	591.8	313.94	0.43	3.27
									2.07		143	277	1.22
									2.50		184	554	1.78
									3.80		383	3062	4.07
									3.01		258	1230	2.63

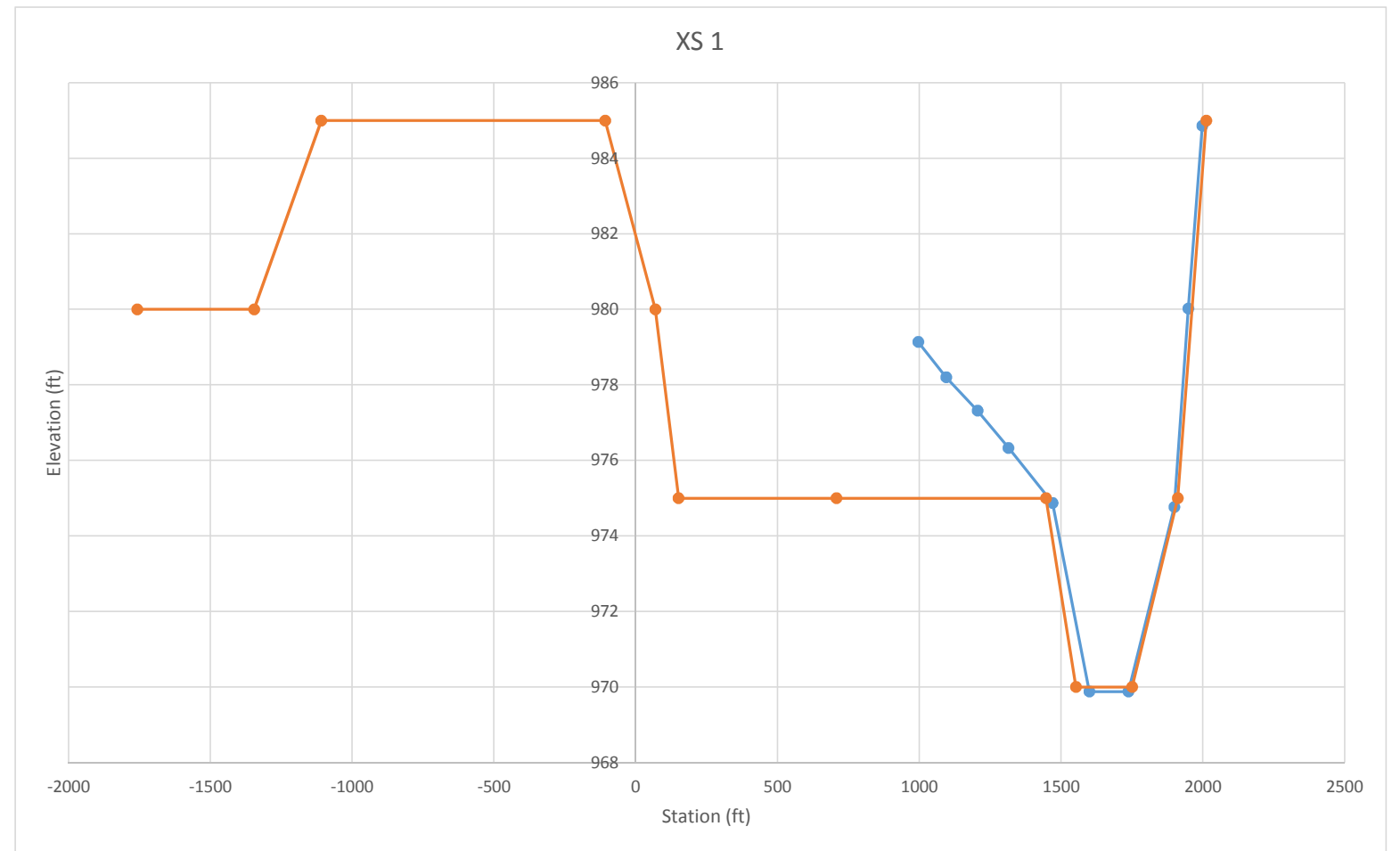
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl D _f Mann Wtd Total (ft)
XSA	2	20 cfs	20	949.5	949.64	949.63	949.7	0.028835	1.89	10.57	78.54	0.91	0.14 0.035
XSA	2	40 cfs	40	949.5	949.72	949.71	949.81	0.025729	2.36	16.97	83.28	0.92	0.22 0.035
XSA	2	60 cfs	60	949.5	949.79	949.77	949.9	0.024114	2.67	22.47	87.16	0.93	0.29 0.035
XSA	2	80 cfs	80	949.5	949.84	949.83	949.97	0.022872	2.9	27.55	90.59	0.93	0.34 0.035
XSA	2	100 cfs	100	949.5	949.9	949.88	950.04	0.021548	3.07	32.52	93.82	0.92	0.4 0.035
XSA	2	120 cfs	120	949.5	949.95	949.92	950.11	0.020514	3.22	37.29	96.82	0.91	0.45 0.035
XSA	2	140 cfs	140	949.5	949.99	949.96	950.17	0.019721	3.34	41.86	99.62	0.91	0.49 0.035
XSA	2	160 cfs	160	949.5	950.04	950	950.22	0.019058	3.46	46.3	102.26	0.91	0.54 0.035
XSA	2	180 cfs	180	949.5	950.08	950.04	950.28	0.018481	3.55	50.64	104.77	0.9	0.58 0.035
XSA	2	200 cfs	200	949.5	950.12	950.08	950.33	0.017991	3.64	54.88	107.17	0.9	0.62 0.035
XSA	2	400 cfs	400	949.5	950.45	950.4	950.74	0.014977	4.25	94.14	127.27	0.87	0.95 0.035
XSA	2	600 cfs	600	949.5	950.72	951.05	951.32	0.013279	4.59	130.58	143.42	0.85	1.22 0.035
XSA	2	800 cfs	800	949.5	950.95	951.32	951.65	0.012216	4.85	165.06	157.18	0.83	1.45 0.035
XSA	2	1000 cfs	1000	949.5	951.16	951.55	951.91	0.011674	5.02	199.19	173.91	0.83	1.66 0.035
XSA	2	1200 cfs	1200	949.5	951.34	951.76	952.11	0.011334	5.17	232.11	189.66	0.82	1.84 0.035
XSA	2	1400 cfs	1400	949.5	951.5	951.94	952.29	0.011029	5.3	264.21	203.86	0.82	2 0.035
XSA	2	1600 cfs	1600	949.5	951.65	952.11	952.48	0.010769	5.41	295.49	216.8	0.82	2.15 0.035
XSA	2	1800 cfs	1800	949.5	951.79	952.26	952.63	0.010545	5.52	326.04	228.73	0.82	2.29 0.035
XSA	2	2000 cfs	2000	949.5	951.92	952.41	952.78	0.010351	5.62	355.94	239.83	0.81	2.42 0.035
XSA	1	20 cfs	20	948.5	948.75	948.63	948.76	0.004504	1.05	19.01	84.74	0.39	0.25 0.035
XSA	1	40 cfs	40	948.5	948.87	948.71	948.9	0.004502	1.34	29.79	92.06	0.42	0.37 0.035
XSA	1	60 cfs	60	948.5	948.96	948.77	949	0.004501	1.54	38.94	97.84	0.43	0.46 0.035
XSA	1	80 cfs	80	948.5	949.05	948.83	949.09	0.004504	1.7	47.18	102.77	0.44	0.55 0.035
XSA	1	100 cfs	100	948.5	949.12	948.88	949.17	0.004501	1.82	54.87	107.16	0.45	0.62 0.035
XSA	1	120 cfs	120	948.5	949.19	948.92	949.24	0.004505	1.93	62.09	111.13	0.46	0.69 0.035
XSA	1	140 cfs	140	948.5	949.25	948.96	949.31	0.004501	2.03	69.02	114.81	0.46	0.75 0.035
XSA	1	160 cfs	160	948.5	949.3	949	949.37	0.004501	2.11	75.66	118.23	0.47	0.8 0.035
XSA	1	180 cfs	180	948.5	949.36	949.04	949.43	0.004506	2.19	82.05	121.43	0.47	0.86 0.035
XSA	1	200 cfs	200	948.5	949.41	949.08	949.49	0.004504	2.27	88.28	124.47	0.47	0.91 0.035
XSA	1	400 cfs	400	948.5	949.81	949.38	949.93	0.004502	2.78	143.74	148.82	0.5	1.31 0.035
XSA	1	600 cfs	600	948.5	950.13	949.61	950.28	0.004509	3.1	193.81	171.19	0.51	1.63 0.035
XSA	1	800 cfs	800	948.5	950.39	949.81	950.56	0.004501	3.3	242.43	194.34	0.52	1.89 0.035
XSA	1	1000 cfs	1000	948.5	950.62	949.98	950.8	0.004505	3.47	287.81	213.69	0.53	2.12 0.035
XSA	1	1200 cfs	1200	948.5	950.81	950.15	951.02	0.004503	3.62	331.09	230.64	0.53	2.31 0.035
XSA	1	1400 cfs	1400	948.5	950.99	950.29	951.21	0.004502	3.76	372.56	245.78	0.54	2.49 0.035
XSA	1	1600 cfs	1600	948.5	951.14	950.43	951.38	0.004501	3.88	412.54	259.55	0.54	2.64 0.035
XSA	1	1800 cfs	1800	948.5	951.29	950.55	951.54	0.0045	3.99	451.3	272.23	0.55	2.79 0.035
XSA	1												

XS 1

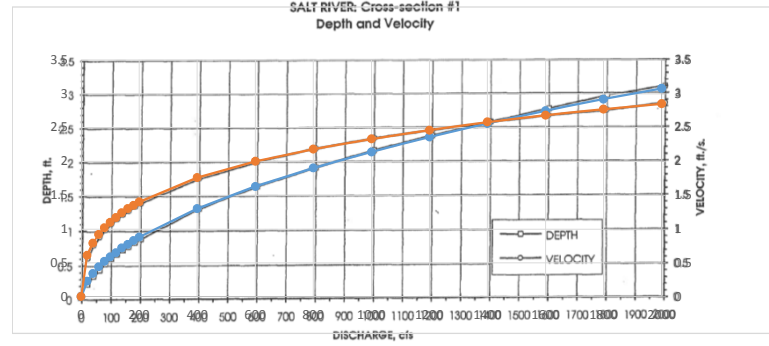
Appendix D		Contour Map		
Distance (ft)	Elevation (ft)	Distance (ft)	Shift	Elevation (ft)
996	979	442	-1758.0	980
1094	978	854	-1346	980
1205	977	1091	-1109	985
1314	976	2092	-108	985
1469	975	2269	69	980
1600	970	2351	151	975
1737	970	2908	708	975
1899	975	3647	1447	975
1949	980	3752	1552	970
1997	985	3950	1750	970
		4111	1911	975
		4212	2012	985

Shift -2200.0

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0.03 0.03 0.03



XS 1			Depth	Vel	Width
0			0	1.1	199.7
20	0.23	0.61	277	1.1	
40	0.34	0.79	277	0.0	
60	0.44	0.92	0	1.6	228.4
80	0.52	1.02	554	1.6	
100	0.59	1.1	554	0.0	
120	0.65	1.17	0	3.8	359.4
140	0.72	1.24	3062	3.8	
160	0.77	1.3	3062	0.0	
180	0.83	1.35			
200	0.88	1.4			
400	1.3	1.76			
600	1.63	2			
800	1.9	2.18			
1000	2.14	2.33			
1200	2.36	2.46			
1400	2.56	2.58	0	2.4	277.3
1600	2.75	2.68	1230	2.4	
1800	2.92	2.77	1230	0.0	
2000	3.08	2.85			



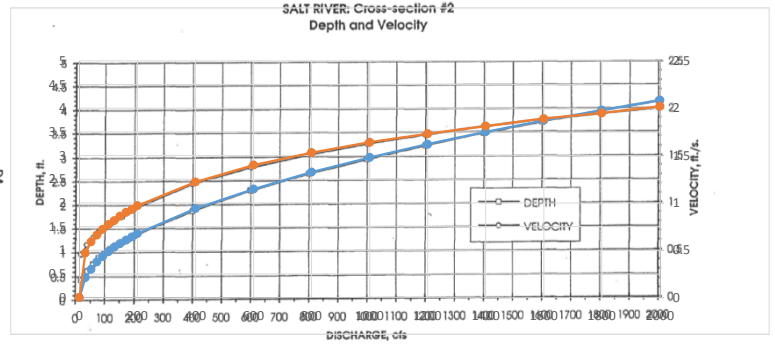
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Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Max Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl Dpth (ft)	Mann Wtd	Total
XS1	2	20 cfs	20	971	971.08	971.08	971.13	0.078552	1.74	11.52	141.84	1.07	0.08	0.045	XS1	2	20 cfs	20	971	971.08	971.08	971.13	0.047519	1.74	11.52	141.84	1.07	0.08	0.035	
XS1	2	40 cfs	40	971	971.14	971.14	971.2	0.058196	2.07	19.28	145.01	1	0.14		XS1	2	40 cfs	40	971	971.14	971.14	971.2	0.035205	2.07	19.28	145.01	1	0.14	0.035	
XS1	2	60 cfs	60	971	971.18	971.18	971.27	0.05625	2.4	25	147.3	1.03	0.18		XS1	2	60 cfs	60	971	971.18	971.18	971.27	0.025368	2.19	27.37	148.25	0.9	0.19	0.035	
XS1	2	80 cfs	80	971	971.22	971.22	971.32	0.049819	2.58	31.01	149.68	1	0.22		XS1	2	80 cfs	80	971	971.22	971.22	971.32	0.030426	2.59	30.91	149.64	1	0.22	0.035	
XS1	2	100 cfs	100	971	971.25	971.25	971.37	0.047435	2.77	36.16	151.68	1	0.25		XS1	2	100 cfs	100	971	971.25	971.25	971.37	0.028695	2.77	36.16	151.68	1	0.25	0.035	
XS1	2	120 cfs	120	971	971.28	971.28	971.42	0.046032	2.93	40.91	153.5	1	0.28		XS1	2	120 cfs	120	971	971.28	971.28	971.42	0.027664	2.93	40.99	153.53	1	0.28	0.035	
XS1	2	140 cfs	140	971	971.31	971.31	971.46	0.044301	3.07	45.6	155.28	1	0.31		XS1	2	140 cfs	140	971	971.31	971.31	971.46	0.026764	3.07	45.62	155.29	1	0.31	0.035	
XS1	2	160 cfs	160	971	971.35	971.34	971.5	0.041078	3.15	50.79	157.23	0.98	0.35		XS1	2	160 cfs	160	971	971.34	971.34	971.5	0.026335	3.21	49.87	156.89	1	0.34	0.035	
XS1	2	180 cfs	180	971	971.38	971.37	971.54	0.036308	3.16	56.89	159.49	0.93	0.38		XS1	2	180 cfs	180	971	971.37	971.37	971.54	0.025698	3.33	54.13	158.47	1	0.37	0.035	
XS1	2	200 cfs	200	971	971.42	971.39	971.58	0.032632	3.18	62.91	161.69	0.9	0.42		XS1	2	200 cfs	200	971	971.39	971.39	971.58	0.025041	3.43	58.34	160.02	1	0.39	0.035	
XS1	2	400 cfs	400	971	971.76	971.76	971.93	0.01757	3.33	120.19	181.26	0.72	0.76		XS1	2	400 cfs	400	971	971.61	971.61	971.89	0.02207	4.22	94.71	172.83	1.01	0.61	0.035	
XS1	2	600 cfs	600	971	972.04	972.04	972.22	0.012993	3.45	173.8	197.84	0.65	1.04		XS1	2	600 cfs	600	971	971.8	971.79	972.14	0.019732	4.69	128.04	183.78	0.99	0.8	0.035	
XS1	2	800 cfs	800	971	972.28	972.28	972.48	0.010841	3.57	224.32	212.27	0.61	1.28		XS1	2	800 cfs	800	971	972.01	971.95	972.36	0.015441	4.76	168.09	196.14	0.91	1.01	0.035	
XS1	2	1000 cfs	1000	971	972.51	972.51	972.72	0.009543	3.66	272.87	225.28	0.59	1.51		XS1	2	1000 cfs	1000	971	972.2	972.08	972.56	0.013056	4.84	206.63	207.33	0.85	1.2	0.035	
XS1	2	1200 cfs	1200	971	972.71	972.71	972.93	0.008669	3.75	319.84	237.18	0.57	1.71		XS1	2	1200 cfs	1200	971	972.38	972.75	972.75	0.011527	4.92	243.98	217.63	0.82	1.38	0.035	
XS1	2	1400 cfs	1400	971	972.9	972.9	973.13	0.008045	3.83	365.34	248.17	0.56	1.9		XS1	2	1400 cfs	1400	971	972.54	972.93	972.93	0.010467	5	280.27	227.19	0.79	1.54	0.035	
XS1	2	1600 cfs	1600	971	973.07	973.07	973.31	0.007563	3.9	409.82	258.46	0.55	2.07		XS1	2	1600 cfs	1600	971	972.69	973.09	973.09	0.009681	5.07	315.69	236.15	0.77	1.69	0.035	
XS1	2	1800 cfs	1800	971	973.24	973.24	973.48	0.007185	3.97	453.27	268.13	0.54	2.24		XS1	2	1800 cfs	1800	971	972.84	973.25	973.25	0.009075	5.14	350.33	244.6	0.76	1.84	0.035	
XS1	2	2000 cfs	2000	971	973.39	973.39	973.65	0.00688	4.03	495.78	277.26	0.53	2.39		XS1	2	2000 cfs	2000	971	972.97	973.39	973.39	0.00859	5.2	384.32	252.61	0.74	1.97	0.035	
XS1	1	20 cfs	20	970	970.23	970.08	970.23	0.002602	0.61	32.78	150.37	0.23	0.23		XS1	1	20 cfs	20	970	970.2	970.08	970.2	0.002601	0.71	28.06	148.52	0.29	0.2	0.035	
XS1	1	40 cfs	40	970	970.34	970.14	970.35	0.002605	0.79	50.56	157.14	0.25	0.34		XS1	1	40 cfs	40	970	970.3	970.14	970.31	0.002603	0.93	43.18	154.37	0.31	0.3	0.035	
XS1	1	60 cfs	60	970	970.44	970.18	970.45	0.002602	0.92	65.39	162.58	0.25	0.44		XS1	1	60 cfs	60	970	970.38	970.19	970.39	0.0026	1.08	55.76	159.07	0.32	0.38	0.035	
XS1	1	80 cfs	80	970	970.52	970.22	970.53	0.002602	1.02	78.59	167.27	0.26	0.52		XS1	1	80 cfs	80	970	970.45	970.22	970.47	0.002603	1.2	66.91	163.13	0.33	0.45	0.035	
XS1	1	100 cfs	100	970	970.59	970.25	970.61	0.002603	1.1	90.74	171.48	0.27	0.59		XS1	1	100 cfs	100	970	970.51	970.25	970.53	0.002601	1.3	77.2	166.78	0.34	0.51	0.035	
XS1	1	120 cfs	120	970	970.65	970.28	970.68	0.002601	1.17	102.16	175.33	0.27	0.65		XS1	1	120 cfs	120	970	970.57	970.28	970.6	0.002601	1.38	86.8	170.12	0.34	0.57	0.035	
XS1	1	140 cfs	140	970	970.72	970.31	970.74	0.002601	1.24	112.97	178.91	0.27	0.72		XS1	1	140 cfs	140	970	970.62	970.31	970.65	0.002604	1.46	95.87	173.22	0.35	0.62	0.035	
XS1	1	160 cfs	160	970	970.77	970.34	970.8	0.002601	1.3	123.3	182.26	0.28	0.77		XS1	1	160 cfs	160	970	970.67	970.34	970.7	0.002602	1.53	104.6	176.15	0.35	0.67	0.035	
XS1	1	180 cfs	180	970	970.83	970.37	970.85	0.002601	1.35	133.24	185.43	0.28	0.83		XS1	1	180 cfs	180	970	970.72	970.37	970.75	0.002601	1.59	112.96	178.91	0.35	0.72	0.035	
XS1	1	200 cfs	200	970	970.88	970.39	970.91	0.002601	1.4	142.86	188.45	0.28	0.88		XS1	1	200 cfs	200	970	970.76	970.39	970.8	0.002601	1.65	121.05	181.54	0.36	0.76	0.035	
XS1	1	400 cfs	400	970	971.3	970.61	971.35	0.002602	1.76	227.45	213.13	0.3	1.3		XS1	1	400 cfs	400	970	971.13	970.61	971.2	0.002601	2.08	191.9	203.13	0.38	1.13	0.035	
XS1	1	600 cfs	600	970	971.63	970.79	971.69	0.002601	2	300.28	232.3	0.31	1.63		XS1	1	600 cfs	600	970	971.42	970.79	971.5	0.002602	2.37	252.64	219.95	0.39	1.42	0.035	
XS1	1	800 cfs	800	970	971.9	970.95	971.98	0.002602	2.18	366.55	248.45	0.32	1.9		XS1	1	800 cfs	800	970	971.66	970.95	971.76	0.0026	2.6	307.95	234.22	0.4	1.66	0.035	
XS1	1	1000 cfs	1000	970	972.14	971.09	972.23	0.002602	2.33	428.47	262.65	0.32	2.14		XS1	1	1000 cfs	1000	970	971.87	971.09	971.99	0.002602	2.78	359.42	246.76	0.41	1.87	0.035	
XS1	1	1200 cfs	1200	970	972.36	971.21	972.46	0.002602	2.46	487.23	275.45	0.33	2.36		XS1	1	120													

XS 2

Q cfs	Dmax ft	Vel fps	Depth	Vel	Width
0		0	0	1.6	224.9
20	0.42	0.47	277	1.6	
40	0.6	0.59	277	0.0	
60	0.75	0.66	0	2.2	253.1
80	0.87	0.72	554	2.2	
100	0.97	0.77	554	0.0	
120	1.06	0.81	0	5.1	383.9
140	1.14	0.86	3062	5.1	
160	1.21	0.9	3062	0.0	
180	1.28	0.93			
200	1.35	0.97			
400	1.88	1.22			
600	2.29	1.4			
800	2.65	1.53			
1000	2.96	1.64			
1200	3.24	1.73			
1400	3.5	1.81	0	3.3	301.7
1600	3.74	1.89	1230	3.3	
1800	3.96	1.95	1230	0.0	
2000	4.17	2.02			



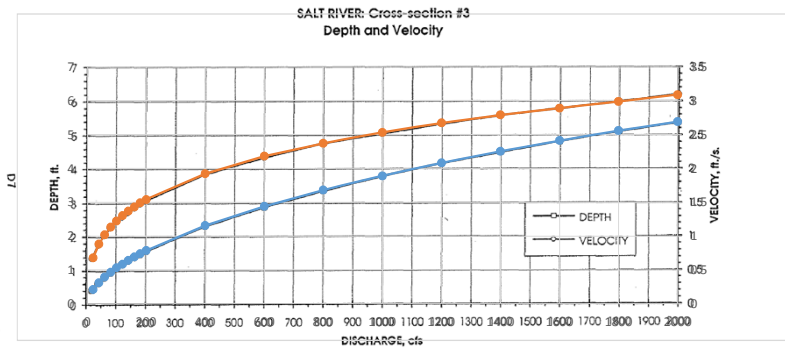
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Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl Dp (ft)	Mann Wtd	Total
XS2	2	20 cfs	20	1029.93	1030.07	1030.07	1030.12	0.066801	1.93	10.37	96.56	1.04	0.13	XS2	2	20 cfs	20	1029.93	1030.07	1030.07	1030.12	0.038302	1.9	10.55	96.77	1.01	0.14	0.035	
XS2	2	40 cfs	40	1029.93	1030.13	1030.13	1030.22	0.053568	2.31	17.32	104.3	1	0.2	XS2	2	40 cfs	40	1029.93	1030.13	1030.13	1030.22	0.032332	2.31	17.34	104.31	1	0.2	0.035	
XS2	2	60 cfs	60	1029.93	1030.19	1030.19	1030.29	0.049592	2.59	23.13	110.35	1	0.26	XS2	2	60 cfs	60	1029.93	1030.19	1030.19	1030.29	0.029947	2.59	23.14	110.36	1	0.26	0.035	
XS2	2	80 cfs	80	1029.93	1030.23	1030.23	1030.36	0.048319	2.84	28.2	115.37	1.01	0.3	XS2	2	80 cfs	80	1029.93	1030.23	1030.23	1030.36	0.030498	2.88	27.8	114.99	1.03	0.3	0.035	
XS2	2	100 cfs	100	1029.93	1030.28	1030.28	1030.42	0.045622	3	33.34	120.26	1	0.35	XS2	2	100 cfs	100	1029.93	1030.28	1030.28	1030.42	0.027418	2.99	33.42	120.32	1	0.35	0.035	
XS2	2	120 cfs	120	1029.93	1030.32	1030.32	1030.47	0.043657	3.14	38.25	124.73	1	0.39	XS2	2	120 cfs	120	1029.93	1030.32	1030.32	1030.47	0.026285	3.13	38.31	124.79	1	0.39	0.035	
XS2	2	140 cfs	140	1029.93	1030.35	1030.35	1030.52	0.042899	3.28	42.7	128.66	1	0.42	XS2	2	140 cfs	140	1029.93	1030.35	1030.35	1030.52	0.026121	3.29	42.61	128.58	1.01	0.42	0.035	
XS2	2	160 cfs	160	1029.93	1030.39	1030.39	1030.57	0.041913	3.39	47.13	132.46	1	0.46	XS2	2	160 cfs	160	1029.93	1030.39	1030.39	1030.57	0.025534	3.4	47.02	132.36	1.01	0.45	0.035	
XS2	2	180 cfs	180	1029.93	1030.42	1030.42	1030.61	0.041415	3.51	51.3	135.93	1.01	0.49	XS2	2	180 cfs	180	1029.93	1030.42	1030.42	1030.61	0.024772	3.5	51.49	136.09	1	0.49	0.035	
XS2	2	200 cfs	200	1029.93	1030.45	1030.45	1030.65	0.04069	3.61	55.48	139.32	1.01	0.52	XS2	2	200 cfs	200	1029.93	1030.45	1030.45	1030.65	0.024571	3.6	55.51	139.35	1.01	0.52	0.035	
XS2	2	400 cfs	400	1029.93	1030.96	1030.96	1031.08	0.011442	2.84	140.8	195.18	0.59	1.03	XS2	2	400 cfs	400	1029.93	1030.7	1030.7	1030.98	0.021995	4.28	93.54	167.1	1.01	0.77	0.035	
XS2	2	600 cfs	600	1029.93	1031.36	1031.36	1031.47	0.006324	2.68	224.07	217.56	0.46	1.43	XS2	2	600 cfs	600	1029.93	1031.05	1031.05	1031.27	0.010791	3.77	159.34	201.95	0.75	1.12	0.035	
XS2	2	800 cfs	800	1029.93	1031.7	1031.7	1031.81	0.004605	2.66	301.05	233.08	0.41	1.77	XS2	2	800 cfs	800	1029.93	1031.36	1031.36	1031.56	0.006804	3.57	224.04	217.55	0.62	1.43	0.035	
XS2	2	1000 cfs	1000	1029.93	1032	1032	1032.11	0.003778	2.68	373.73	246.83	0.38	2.07	XS2	2	1000 cfs	1000	1029.93	1031.63	1031.63	1031.82	0.005179	3.52	284.13	229.76	0.56	1.7	0.035	
XS2	2	1200 cfs	1200	1029.93	1032.28	1032.28	1032.39	0.003286	2.71	443.42	259.34	0.36	2.35	XS2	2	1200 cfs	1200	1029.93	1031.87	1031.87	1032.06	0.004297	3.51	341.61	240.85	0.52	1.94	0.035	
XS2	2	1400 cfs	1400	1029.93	1032.53	1032.53	1032.65	0.002961	2.74	510.63	270.85	0.35	2.6	XS2	2	1400 cfs	1400	1029.93	1032.09	1032.09	1032.29	0.00375	3.53	396.88	251.05	0.49	2.16	0.035	
XS2	2	1600 cfs	1600	1029.93	1032.77	1032.77	1032.89	0.002727	2.78	575.98	281.6	0.34	2.84	XS2	2	1600 cfs	1600	1029.93	1032.3	1032.3	1032.5	0.00338	3.55	450.21	260.52	0.48	2.37	0.035	
XS2	2	1800 cfs	1800	1029.93	1032.99	1032.99	1033.11	0.002557	2.82	639.06	291.59	0.34	3.06	XS2	2	1800 cfs	1800	1029.93	1032.5	1032.5	1032.7	0.00311	3.58	502.09	269.42	0.46	2.57	0.035	
XS2	2	2000 cfs	2000	1029.93	1033.2	1033.2	1033.32	0.00242	2.85	701.1	301.1	0.33	3.27	XS2	2	2000 cfs	2000	1029.93	1032.68	1032.68	1032.89	0.002904	3.62	552.73	277.82	0.45	2.75	0.035	
XS2	1	20 cfs	20	1028.93	1029.35	1029.07	1029.35	0.000902	0.47	42.28	128.3	0.15	0.42	XS2	1	20 cfs	20	1028.93	1029.3	1029.07	1029.3	0.000902	0.56	35.69	122.41	0.18	0.37	0.035	
XS2	1	40 cfs	40	1028.93	1029.54	1029.13	1029.54	0.000901	0.59	68.06	149.08	0.15	0.6	XS2	1	40 cfs	40	1028.93	1029.46	1029.13	1029.47	0.000902	0.7	57.19	140.69	0.19	0.53	0.035	
XS2	1	60 cfs	60	1028.93	1029.68	1029.19	1029.68	0.0009	0.66	90.44	165.01	0.16	0.75	XS2	1	60 cfs	60	1028.93	1029.59	1029.19	1029.6	0.000901	0.79	75.8	154.77	0.2	0.66	0.035	
XS2	1	80 cfs	80	1028.93	1029.8	1029.23	1029.8	0.000901	0.72	110.82	178.29	0.16	0.87	XS2	1	80 cfs	80	1028.93	1029.69	1029.23	1029.7	0.000901	0.86	92.74	166.57	0.2	0.76	0.035	
XS2	1	100 cfs	100	1028.93	1029.9	1029.28	1029.91	0.000901	0.77	129.93	189.89	0.16	0.97	XS2	1	100 cfs	100	1028.93	1029.78	1029.28	1029.8	0.000901	0.92	108.63	176.91	0.21	0.85	0.035	
XS2	1	120 cfs	120	1028.93	1029.99	1029.32	1030	0.000901	0.81	147.3	197.58	0.17	1.06	XS2	1	120 cfs	120	1028.93	1029.87	1029.32	1029.88	0.000901	0.97	123.7	186.19	0.21	0.94	0.035	
XS2	1	140 cfs	140	1028.93	1030.07	1029.35	1030.08	0.0009	0.86	163.47	203.42	0.17	1.14	XS2	1	140 cfs	140	1028.93	1029.94	1029.35	1029.96	0.000901	1.01	137.97	194.13	0.21	1.01	0.035	
XS2	1	160 cfs	160	1028.93	1030.14	1029.39	1030.16	0.0009	0.9	178.65	207.86	0.17	1.21	XS2	1	160 cfs	160	1028.93	1030.01	1029.39	1030.03	0.0009	1.06	150.97	198.92	0.21	1.08	0.035	
XS2	1	180 cfs	180	1028.93	1030.21	1029.42	1030.23	0.000901	0.93	192.82	210.93	0.17	1.28	XS2	1	180 cfs	180	1028.93	1030.07	1029.42	1030.09	0.0009	1.1	163.47	203.42	0.22	1.14	0.035	
XS2	1	200 cfs	200	1028.93	1030.28	1029.45	1030.29	0.0009	0.97	206.58	213.88	0.17	1.35	XS2	1	200 cfs	200	1028.93	1030.13	1029.45	1030.15	0.000901	1.14	175.36	207.14	0.22	1.2	0.035	
XS2	1	400 cfs	400	1028.93	1030.81	1029.7	1030.83	0.000902	1.22	326.7	238.02	0.18	1.88	XS2	1	400 cfs	400	1028.93	1030.59	1029.7	1030.62	0.000901	1.45	276.33	228.21	0.23	1.66	0.035	
XS2	1	600 cfs	600	1028.93	1031.22	1029.89	1031.25	0.000901	1.4	429.75	256.93	0.19	2.29	XS2	1	600 cfs	600	1028.93	1030.96	1029.89	1031	0.000901	1.66	362.44	244.75	0.24	2.03	0.035	
XS2	1	800 cfs	800	1028.93	1031.58	1030.04	1031.61	0.000901	1.53	523.25	272.96	0.19	2.65	XS2	1	800 cfs	800	1028.93	1031.27	1030.04	1031.32	0.000901	1.82	440.51	258.83	0.25	2.34	0.035	
XS2	1	1000 cfs	1000	1028.93	1031.89	1030.18	1031.93	0.000902	1.64	610.17	287.06	0.2	2.96	XS2	1	1000 cfs	1000	1028.93	1031.54	1030.18	1031.6	0.000902	1.95	513.02	271.25	0.25	2.61	0.035	
XS2	1	1200 cfs	1200	1028.93	1032.17	1030.3	1032.22	0.000902	1.73	692.74	299.83	0.2	3.24	XS2	1	1200 cfs	1200	1028.93	1031.79	1030.3	1031.85	0.000901	2.06	581.97	282.56	0.25	2.86	0.035	
XS2	1	1400 cfs	1400	1028.93	1032.43	1030.41	1032.48	0.000902	1.81	771.58	311.55	0.2	3.5	XS2	1	1400 cfs	1400	1028.93	1032.02	1030.41	1032.09	0.0009	2.16	647.76	292.94	0.26	3.09	0.035	
XS2	1	1600 cfs	1600	1028.93	1032.67	1030.52	1032.72	0.0009	1.89	847.75	322.31	0.21	3.74	XS2	1	1600 cfs	1600	1028.93	1032.23	1030.52	1032.31	0.000901	2.25	710.79	302.56	0.26	3.3	0.035	
XS2	1	1800 cfs	1800	1028.93	1032.89	1030.62	1032.95	0.000902	1.95	920.72	332.44	0.21	3.96	XS2	1														

XS 3

Q cfs	Dmax ft	Vel fps	Depth	Vel	Width
0			0	1.9	1.7
20	0.42	0.68	277	1.9	104.9
40	0.62	0.88	277	0.0	
60	0.79	1.02	0	2.8	2.1
80	0.93	1.13	554	2.8	121.8
100	1.06	1.22	554	0.0	
120	1.17	1.3	0	6.6	3.5
140	1.28	1.37	3062	6.6	187.9
160	1.38	1.43	3062	0.0	
180	1.48	1.49			
200	1.57	1.54			
400	2.31	1.92			
600	2.88	2.18			
800	3.36	2.37			
1000	3.78	2.53			
1200	4.16	2.67			
1400	4.5	2.79			
1600	4.82	2.89			
1800	5.12	2.99			
2000	5.38	3.09			
0			0	4.2	2.7
1230			1230	4.2	150.1
1230			1230	0.0	



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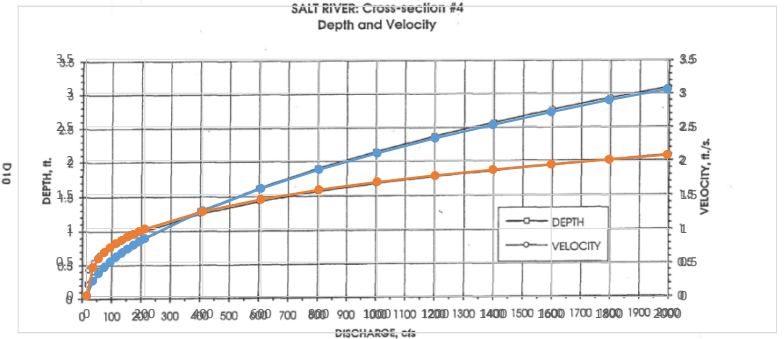
0.0015
0.045

Reach	Style	Variable=VLine	Style=1, Line	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl Dpth (ft)	DjMann	Wtd Total
XS3	2	20 cfs	20	1075.94	1076.08	1076.08	1076.15	0.057149	2.09	9.58	70.36	1	0.14	XS3	2	20 cfs	20	1075.94	1076.08	1076.08	1076.15	0.034776	2.09	9.56	70.35	1	0.14	0.035		
XS3	2	40 cfs	40	1075.94	1076.18	1076.18	1076.27	0.040967	2.47	16.21	72.18	0.92	0.24	XS3	2	40 cfs	40	1075.94	1076.16	1076.16	1076.27	0.029996	2.62	15.28	71.93	1	0.22	0.035		
XS3	2	60 cfs	60	1075.94	1076.23	1076.23	1076.37	0.045762	2.98	20.11	73.23	1	0.29	XS3	2	60 cfs	60	1075.94	1076.23	1076.23	1076.37	0.02725	2.97	20.21	73.26	1	0.29	0.035		
XS3	2	80 cfs	80	1075.94	1076.32	1076.29	1076.46	0.031535	2.96	26.99	75.05	0.87	0.38	XS3	2	80 cfs	80	1075.94	1076.29	1076.29	1076.46	0.025635	3.25	24.62	74.43	1	0.35	0.035		
XS3	2	100 cfs	100	1075.94	1076.43		1076.56	0.021222	2.85	35.14	77.15	0.74	0.49	XS3	2	100 cfs	100	1075.94	1076.35	1076.35	1076.54	0.024737	3.5	28.61	75.47	1	0.4	0.035		
XS3	2	120 cfs	120	1075.94	1076.53		1076.65	0.016141	2.79	42.99	79.12	0.67	0.59	XS3	2	120 cfs	120	1075.94	1076.39	1076.39	1076.61	0.024109	3.71	32.32	76.43	1.01	0.45	0.035		
XS3	2	140 cfs	140	1075.94	1076.63		1076.75	0.01317	2.77	50.59	80.98	0.62	0.69	XS3	2	140 cfs	140	1075.94	1076.44	1076.44	1076.68	0.023306	3.89	35.99	77.37	1.01	0.5	0.035		
XS3	2	160 cfs	160	1075.94	1076.72		1076.84	0.011183	2.76	58.07	82.77	0.58	0.78	XS3	2	160 cfs	160	1075.94	1076.51	1076.49	1076.74	0.020001	3.89	41.1	78.65	0.95	0.57	0.035		
XS3	2	180 cfs	180	1075.94	1076.8		1076.92	0.009851	2.76	65.27	84.46	0.55	0.86	XS3	2	180 cfs	180	1075.94	1076.58	1076.53	1076.81	0.016491	3.82	47.09	80.13	0.88	0.64	0.035		
XS3	2	200 cfs	200	1075.94	1076.89		1077.01	0.008872	2.77	72.29	86.07	0.53	0.95	XS3	2	200 cfs	200	1075.94	1076.66		1076.88	0.014098	3.78	52.95	81.55	0.83	0.71	0.035		
XS3	2	400 cfs	400	1075.94	1077.58		1077.71	0.005132	2.92	137	99.72	0.44	1.64	XS3	2	400 cfs	400	1075.94	1077.26		1077.48	0.006701	3.78	105.95	93.42	0.63	1.32	0.035		
XS3	2	600 cfs	600	1075.94	1078.13		1078.28	0.004084	3.08	195.03	110.54	0.41	2.19	XS3	2	600 cfs	600	1075.94	1077.74		1077.98	0.005011	3.91	153.26	102.87	0.57	1.8	0.035		
XS3	2	800 cfs	800	1075.94	1078.6		1078.76	0.003581	3.21	248.94	119.72	0.39	2.66	XS3	2	800 cfs	800	1075.94	1078.15		1078.41	0.004251	4.06	197.22	110.93	0.54	2.21	0.035		
XS3	2	1000 cfs	1000	1075.94	1079.01		1079.19	0.003284	3.34	299.82	127.78	0.38	3.07	XS3	2	1000 cfs	1000	1075.94	1078.52		1078.79	0.003808	4.18	238.97	118.07	0.52	2.58	0.035		
XS3	2	1200 cfs	1200	1075.94	1079.38		1079.57	0.003084	3.44	348.5	135.04	0.38	3.44	XS3	2	1200 cfs	1200	1075.94	1078.85		1079.14	0.003523	4.3	278.76	124.5	0.51	2.91	0.035		
XS3	2	1400 cfs	1400	1075.94	1079.72		1079.92	0.002936	3.54	395.51	141.69	0.37	3.78	XS3	2	1400 cfs	1400	1075.94	1079.15		1079.45	0.003322	4.42	317.03	130.39	0.5	3.21	0.035		
XS3	2	1600 cfs	1600	1075.94	1080.04		1080.24	0.002822	3.63	441.11	147.87	0.37	4.1	XS3	2	1600 cfs	1600	1075.94	1079.43		1079.74	0.003164	4.52	354.34	135.88	0.49	3.49	0.035		
XS3	2	1800 cfs	1800	1075.94	1080.34		1080.55	0.002727	3.71	485.74	153.67	0.37	4.39	XS3	2	1800 cfs	1800	1075.94	1079.69		1080.02	0.003043	4.61	390.51	141	0.49	3.75	0.035		
XS3	2	2000 cfs	2000	1075.94	1080.6		1080.82	0.002685	3.8	526.78	158.82	0.37	4.66	XS3	2	2000 cfs	2000	1075.94	1079.93		1080.28	0.002946	4.7	425.78	145.82	0.48	3.99	0.035		
XS3	1	20 cfs	20	1075.07	1075.49	1075.21	1075.49	0.0015	0.68	29.39	75.67	0.19	0.42	XS3	1	20 cfs	20	1075.07	1075.43	1075.21	1075.44	0.0015	0.8	25.13	74.56	0.24	0.36	0.035		
XS3	1	40 cfs	40	1075.07	1075.69	1075.31	1075.7	0.001502	0.88	45.48	79.73	0.21	0.62	XS3	1	40 cfs	40	1075.07	1075.61	1075.29	1075.62	0.0015	1.03	38.79	78.07	0.26	0.54	0.035		
XS3	1	60 cfs	60	1075.07	1075.86	1075.36	1075.87	0.0015	1.02	58.96	82.98	0.21	0.79	XS3	1	60 cfs	60	1075.07	1075.75	1075.36	1075.77	0.001501	1.2	50.18	80.88	0.27	0.68	0.035		
XS3	1	80 cfs	80	1075.07	1076	1075.42	1076.02	0.001501	1.13	70.99	85.78	0.22	0.93	XS3	1	80 cfs	80	1075.07	1075.87	1075.42	1075.9	0.001503	1.33	60.32	83.3	0.27	0.8	0.035		
XS3	1	100 cfs	100	1075.07	1076.13	1075.47	1076.15	0.001501	1.22	82.11	88.28	0.22	1.06	XS3	1	100 cfs	100	1075.07	1075.99	1075.48	1076.02	0.001501	1.43	69.71	85.48	0.28	0.92	0.035		
XS3	1	120 cfs	120	1075.07	1076.25	1075.52	1076.27	0.001503	1.3	92.51	90.56	0.23	1.17	XS3	1	120 cfs	120	1075.07	1076.09	1075.52	1076.12	0.001501	1.53	78.49	87.47	0.28	1.02	0.035		
XS3	1	140 cfs	140	1075.07	1076.35	1075.57	1076.38	0.001501	1.37	102.46	92.69	0.23	1.28	XS3	1	140 cfs	140	1075.07	1076.18	1075.57	1076.22	0.001501	1.61	86.82	89.32	0.29	1.11	0.035		
XS3	1	160 cfs	160	1075.07	1076.46	1075.62	1076.49	0.0015	1.43	111.98	94.68	0.23	1.38	XS3	1	160 cfs	160	1075.07	1076.27	1075.62	1076.31	0.001501	1.69	94.8	91.05	0.29	1.2	0.035		
XS3	1	180 cfs	180	1075.07	1076.55	1075.66	1076.59	0.0015	1.49	121.14	96.56	0.23	1.48	XS3	1	180 cfs	180	1075.07	1076.35	1075.66	1076.4	0.001503	1.76	102.43	92.68	0.29	1.28	0.035		
XS3	1	200 cfs	200	1075.07	1076.64	1075.7	1076.68	0.001501	1.54	129.97	98.33	0.24	1.57	XS3	1	200 cfs	200	1075.07	1076.43	1075.7	1076.48	0.001502	1.82	109.87	94.24	0.3	1.36	0.035		
XS3	1	400 cfs	400	1075.07	1077.38	1076.05	1077.44	0.001501	1.92	208.18	112.85	0.25	2.31	XS3	1	400 cfs	400	1075.07	1077.08	1076.05	1077.16	0.001501	2.28	175.27	106.98	0.31	2.01	0.035		
XS3	1	600 cfs	600	1075.07	1077.95	1076.33	1078.03	0.001501	2.18	275.83	124.04	0.26	2.88	XS3	1	600 cfs	600	1075.07	1077.59	1076.33	1077.69	0.001501	2.59	231.58	116.84	0.32	2.52	0.035		
XS3	1	800 cfs	800	1075.07	1078.43	1076.58	1078.52	0.0015	2.37	337.58	133.44	0.26	3.36	XS3	1	800 cfs	800	1075.07	1078.01	1076.58	1078.13	0.001501	2.83	282.89	125.15	0.33	2.94	0.035		
XS3	1	1000 cfs	1000	1075.07	1078.85	1076.8	1078.95	0.001502	2.53	395.11	141.64	0.27	3.78	XS3	1	1000 cfs	1000	1075.07	1078.38	1076.8	1078.53	0.0015	3.02	330.92	132.46	0.34	3.31	0.035		
XS3	1	1200 cfs	1200	1075.07	1079.23	1077.01	1079.34	0.001503	2.67	449.79	149.01	0.27	4.16	XS3	1	1200 cfs	1200	1075.07	1078.72	1077.01	1078.88	0.001501	3.19	376.34	139.02	0.34	3.65	0.035		
XS3	1																													

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XS 4

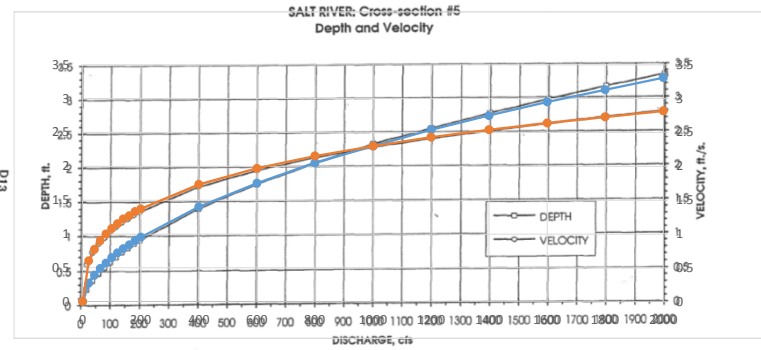
Q cfs	Dmax ft	Vel fps	Depth	Vel	Width
0	0	0	0	1.0	280.6
20	0.22	0.42	277	1.0	
40	0.33	0.55	277	0.0	
60	0.42	0.64	0	1.5	313.1
80	0.5	0.71	554	1.5	
100	0.57	0.77	554	0.0	
120	0.63	0.82	0	3.8	442.1
140	0.69	0.87	3062	3.8	
160	0.75	0.91	3062	0.0	
180	0.8	0.95			
200	0.85	0.99			
400	1.26	1.25			
600	1.59	1.43			
800	1.87	1.57			
1000	2.11	1.69			
1200	2.33	1.78	0	2.4	369.5
1400	2.53	1.87	1230	2.4	
1600	2.72	1.95	1230	0.0	
1800	2.9	2.02			
2000	3.06	2.09			



**S
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0.0013	0.045	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl D _r Mann Wtd Total (ft)	
		XS4	2	20 cfs	20	1133.25	1133.32	1133.32	1133.35	0.082653	1.49	13.41	215.44	1.05	0.07	XS4	2	20 cfs	20	1133.25	1133.32	1133.32	1133.35	0.05	1.49	13.41	215.44	1.05	0.07	0.035
		XS4	2	40 cfs	40	1133.25	1133.36	1133.36	1133.41	0.063686	1.81	22.09	218.13	1	0.11	XS4	2	40 cfs	40	1133.25	1133.36	1133.36	1133.41	0.038833	1.81	22.04	218.11	1.01	0.11	0.035
		XS4	2	60 cfs	60	1133.25	1133.39	1133.39	1133.46	0.058284	2.07	29.05	220.26	1	0.14	XS4	2	60 cfs	60	1133.25	1133.39	1133.39	1133.46	0.034208	2.05	29.32	220.34	0.99	0.14	0.035
		XS4	2	80 cfs	80	1133.25	1133.42	1133.42	1133.5	0.054526	2.26	35.34	222.17	1	0.17	XS4	2	80 cfs	80	1133.25	1133.42	1133.42	1133.5	0.034431	2.29	34.88	222.03	1.02	0.17	0.035
		XS4	2	100 cfs	100	1133.25	1133.44	1133.44	1133.54	0.05443	2.47	40.54	223.73	1.02	0.19	XS4	2	100 cfs	100	1133.25	1133.44	1133.44	1133.54	0.034111	2.49	40.1	223.6	1.04	0.19	0.035
		XS4	2	120 cfs	120	1133.25	1133.47	1133.47	1133.57	0.049414	2.57	46.71	225.58	0.99	0.22	XS4	2	120 cfs	120	1133.25	1133.47	1133.47	1133.57	0.030355	2.58	46.49	225.51	1	0.22	0.035
		XS4	2	140 cfs	140	1133.25	1133.49	1133.49	1133.61	0.048509	2.71	51.65	227.04	1	0.24	XS4	2	140 cfs	140	1133.25	1133.49	1133.49	1133.61	0.029345	2.71	51.65	227.04	1	0.24	0.035
		XS4	2	160 cfs	160	1133.25	1133.51	1133.51	1133.64	0.047179	2.83	56.58	228.49	1	0.26	XS4	2	160 cfs	160	1133.25	1133.51	1133.51	1133.64	0.028404	2.82	56.66	228.52	1	0.26	0.035
		XS4	2	180 cfs	180	1133.25	1133.53	1133.53	1133.67	0.045726	2.93	61.44	229.92	1	0.28	XS4	2	180 cfs	180	1133.25	1133.53	1133.53	1133.67	0.027866	2.94	61.3	229.88	1	0.28	0.035
		XS4	2	200 cfs	200	1133.25	1133.55	1133.55	1133.7	0.045183	3.04	65.83	231.19	1	0.3	XS4	2	200 cfs	200	1133.25	1133.55	1133.55	1133.7	0.027333	3.04	65.83	231.19	1	0.3	0.035
		XS4	2	400 cfs	400	1133.25	1133.76	1133.72	1133.95	0.030715	3.49	114.66	244.95	0.9	0.51	XS4	2	400 cfs	400	1133.25	1133.72	1133.72	1133.94	0.023451	3.75	106.53	242.72	1	0.47	0.035
		XS4	2	600 cfs	600	1133.25	1134.06		1134.21	0.013832	3.13	191.79	265.24	0.65	0.81	XS4	2	600 cfs	600	1133.25	1133.86	1133.86	1134.15	0.021804	4.26	140.99	252.06	1	0.61	0.035
		XS4	2	800 cfs	800	1133.25	1134.32		1134.46	0.009409	3.05	262.41	282.54	0.56	1.07	XS4	2	800 cfs	800	1133.25	1134.02	1133.99	1134.32	0.017687	4.41	181.35	262.59	0.94	0.77	0.035
		XS4	2	1000 cfs	1000	1133.25	1134.55		1134.69	0.007392	3.04	329.49	298.05	0.51	1.3	XS4	2	1000 cfs	1000	1133.25	1134.24		1134.51	0.011795	4.18	239.18	276.97	0.79	0.98	0.035
		XS4	2	1200 cfs	1200	1133.25	1134.76		1134.9	0.006242	3.05	393.96	312.23	0.48	1.51	XS4	2	1200 cfs	1200	1133.25	1134.42		1134.69	0.009222	4.1	292.44	289.59	0.72	1.17	0.035
		XS4	2	1400 cfs	1400	1133.25	1134.96		1135.1	0.005506	3.07	456.14	325.31	0.46	1.71	XS4	2	1400 cfs	1400	1133.25	1134.6		1134.85	0.007726	4.07	343.64	301.22	0.67	1.35	0.035
		XS4	2	1600 cfs	1600	1133.25	1135.14		1135.29	0.004983	3.1	516.84	337.6	0.44	1.89	XS4	2	1600 cfs	1600	1133.25	1134.76		1135.02	0.006752	4.07	393.2	312.06	0.64	1.51	0.035
		XS4	2	1800 cfs	1800	1133.25	1135.31		1135.46	0.004597	3.13	575.94	349.15	0.43	2.06	XS4	2	1800 cfs	1800	1133.25	1134.91		1135.17	0.006062	4.08	441.52	322.28	0.61	1.66	0.035
		XS4	2	2000 cfs	2000	1133.25	1135.47		1135.62	0.004361	3.17	630.65	359.51	0.42	2.21	XS4	2	2000 cfs	2000	1133.25	1135.05		1135.32	0.005552	4.09	488.64	331.95	0.59	1.8	0.035
		XS4	1	20 cfs	20	1132.25	1132.47	1132.32	1132.48	0.001301	0.42	47.48	225.81	0.16	0.22	XS4	1	20 cfs	20	1132.25	1132.44	1132.32	1132.45	0.0013	0.49	40.7	223.78	0.2	0.19	0.035
		XS4	1	40 cfs	40	1132.25	1132.58	1132.36	1132.59	0.001301	0.55	72.92	233.24	0.17	0.33	XS4	1	40 cfs	40	1132.25	1132.54	1132.36	1132.54	0.001302	0.64	62.37	230.19	0.22	0.29	0.035
		XS4	1	60 cfs	60	1132.25	1132.67	1132.39	1132.68	0.001301	0.64	93.94	239.21	0.18	0.42	XS4	1	60 cfs	60	1132.25	1132.62	1132.39	1132.62	0.001301	0.75	80.27	235.35	0.23	0.36	0.035
		XS4	1	80 cfs	80	1132.25	1132.75	1132.42	1132.76	0.001301	0.71	112.6	244.39	0.18	0.5	XS4	1	80 cfs	80	1132.25	1132.68	1132.42	1132.69	0.0013	0.83	96.14	239.83	0.23	0.43	0.035
		XS4	1	100 cfs	100	1132.25	1132.82	1132.44	1132.83	0.001301	0.77	129.7	249.04	0.19	0.57	XS4	1	100 cfs	100	1132.25	1132.74	1132.44	1132.75	0.0013	0.9	110.63	243.85	0.24	0.49	0.035
		XS4	1	120 cfs	120	1132.25	1132.88	1132.47	1132.89	0.001301	0.82	145.68	253.31	0.19	0.63	XS4	1	120 cfs	120	1132.25	1132.8	1132.47	1132.81	0.001301	0.97	124.16	247.54	0.24	0.55	0.035
		XS4	1	140 cfs	140	1132.25	1132.94	1132.49	1132.95	0.001301	0.87	160.82	257.29	0.19	0.69	XS4	1	140 cfs	140	1132.25	1132.85	1132.49	1132.86	0.001301	1.02	136.94	250.98	0.24	0.6	0.035
		XS4	1	160 cfs	160	1132.25	1133	1132.51	1133.01	0.0013	0.91	175.28	261.03	0.2	0.75	XS4	1	160 cfs	160	1132.25	1132.9	1132.51	1132.91	0.001302	1.07	149.09	254.21	0.25	0.65	0.035
		XS4	1	180 cfs	180	1132.25	1133.05	1132.53	1133.06	0.0013	0.95	189.11	264.56	0.2	0.8	XS4	1	180 cfs	180	1132.25	1132.94	1132.53	1132.96	0.001301	1.12	160.82	257.29	0.25	0.69	0.035
		XS4	1	200 cfs	200	1132.25	1133.1	1132.55	1133.12	0.0013	0.99	202.47	267.93	0.2	0.85	XS4	1	200 cfs	200	1132.25	1132.99	1132.55	1133.01	0.0013	1.16	172.1	260.21	0.25	0.74	0.035
		XS4	1	400 cfs	400	1132.25	1133.51	1132.72	1133.54	0.001301	1.25	319.16	295.71	0.21	1.26	XS4	1	400 cfs	400	1132.25	1133.35	1132.72	1133.38	0.001301	1.48	270.26	284.4	0.27	1.1	0.035
		XS4	1	600 cfs	600	1132.25	1133.84	1132.86	1133.87	0.001301	1.43	418.91	317.54	0.22	1.59	XS4	1	600 cfs	600	1132.25	1133.63	1132.86	1133.67	0.001301	1.7	353.75	303.46	0.28	1.38	0.035
		XS4	1	800 cfs	800	1132.25	1134.12	1132.99	1134.15	0.001302	1.57	509.15	336.07	0.22	1.87	XS4	1	800 cfs	800	1132.25	1133.87	1132.99	1133.93	0.0013	1.86	429.37	319.74	0.28	1.62	0.035
		XS4	1	1000 cfs	1000	1132.25	1134.36	1133.1	1134.4	0.001302	1.69	593.28	352.47	0.23	2.11	XS4	1	1000 cfs	1000	1132.25	1134.09	1133.1	1134.15	0.0013	2	499.66	334.17	0.29	1.84	0.035
		XS4	1	1200 cfs	1200	1132.25	1134.58	1133.2	1134.63	0.001301	1.78	672.97	367.32	0.23	2.33	XS4	1	1200 cfs	1200	1132.25	1134.28	1133.2	1134.35	0.001301	2.12	565.91	347.22	0.29	2.03	0.035
		XS4	1	1400 cfs	1400	1132.25	1134.78	1133.3	1134.84	0.001302	1.87	748.79	380.92	0.24	2.53	XS4	1	1400 cfs	1400	1132.25	1134.46	1133.3	1134.54	0.001301	2.23	629.2	359.24	0.3	2.21	0.035
		XS4	1	1600 cfs	1600	1132.25	1134.97	1133.39	1135.03	0.001301	1.95	822.16																		

XS 5			Depth	Vel	Width
Q cfs	Dmax ft	Vel fps	0	1.1	1.5
0	0	0	277	1.1	190.5
20	0.27	0.6	277	0.0	
40	0.39	0.77			
60	0.49	0.9	0	1.7	1.9
80	0.57	1	554	1.7	216.9
100	0.65	1.08	554	0.0	
120	0.72	1.15			
140	0.78	1.22	0	4.1	3.2
160	0.84	1.27	3062	4.1	338.3
180	0.9	1.33	3062	0.0	
200	0.95	1.37			
400	1.4	1.73			
600	1.75	1.97			
800	2.05	2.15			
1000	2.3	2.3			
1200	2.54	2.43			
1400	2.75	2.54	0	2.6	2.4
1600	2.95	2.64	1230	2.6	262.1
1800	3.13	2.73	1230	0.0	
2000	3.31	2.82			



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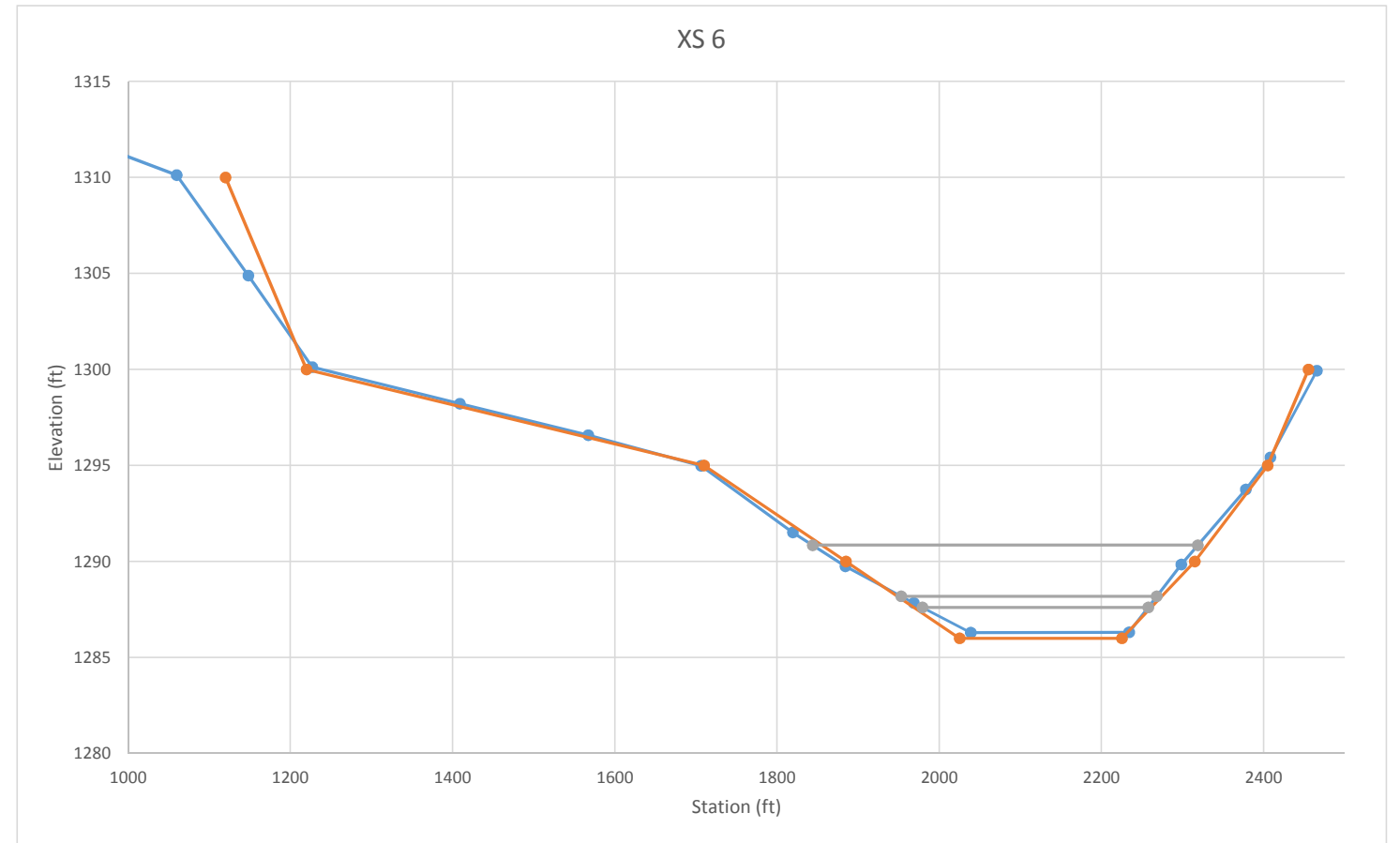
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max Chl D _f Mann Wtd Total (ft)	
XS5	2	20 cfs	20	1211.95	1212.06	1212.06	1212.11	0.083071	1.79	11.18	137.19	1.1	0.11	XS5	2	20 cfs	20	1211.95	1212.06	1212.06	1212.11	0.050253	1.79	11.18	137.19	1.1	0.11	0.035
XS5	2	40 cfs	40	1211.95	1212.12	1212.12	1212.18	0.057657	2.1	19.07	140.07	1	0.16	XS5	2	40 cfs	40	1211.95	1212.11	1212.11	1212.18	0.035084	2.1	19.03	140.06	1.01	0.16	0.035
XS5	2	60 cfs	60	1211.95	1212.16	1212.16	1212.25	0.052266	2.38	25.2	142.27	1	0.21	XS5	2	60 cfs	60	1211.95	1212.16	1212.16	1212.25	0.03176	2.38	25.17	142.26	1	0.21	0.035
XS5	2	80 cfs	80	1211.95	1212.2	1212.2	1212.3	0.049598	2.62	30.59	144.18	1	0.25	XS5	2	80 cfs	80	1211.95	1212.2	1212.2	1212.3	0.030172	2.62	30.53	144.16	1	0.25	0.035
XS5	2	100 cfs	100	1211.95	1212.23	1212.23	1212.35	0.047189	2.8	35.67	145.96	1	0.28	XS5	2	100 cfs	100	1211.95	1212.23	1212.23	1212.35	0.028964	2.82	35.51	145.9	1.01	0.28	0.035
XS5	2	120 cfs	120	1211.95	1212.26	1212.26	1212.4	0.045866	2.98	40.31	147.56	1	0.31	XS5	2	120 cfs	120	1211.95	1212.26	1212.26	1212.4	0.027548	2.97	40.4	147.59	1	0.31	0.035
XS5	2	140 cfs	140	1211.95	1212.29	1212.29	1212.44	0.043713	3.11	45.05	149.18	1	0.34	XS5	2	140 cfs	140	1211.95	1212.29	1212.29	1212.44	0.026443	3.11	45.05	149.18	1	0.34	0.035
XS5	2	160 cfs	160	1211.95	1212.32	1212.32	1212.49	0.043606	3.26	49.02	150.53	1.01	0.37	XS5	2	160 cfs	160	1211.95	1212.32	1212.32	1212.49	0.02641	3.26	49	150.52	1.01	0.37	0.035
XS5	2	180 cfs	180	1211.95	1212.35	1212.35	1212.53	0.04195	3.37	53.44	152.01	1	0.4	XS5	2	180 cfs	180	1211.95	1212.35	1212.35	1212.53	0.025182	3.36	53.57	152.05	1	0.4	0.035
XS5	2	200 cfs	200	1211.95	1212.39	1212.38	1212.57	0.036785	3.36	59.53	154.02	0.95	0.44	XS5	2	200 cfs	200	1211.95	1212.38	1212.38	1212.56	0.024653	3.47	57.63	153.4	1	0.43	0.035
XS5	2	400 cfs	400	1211.95	1212.75		1212.93	0.01697	3.36	119.08	172.52	0.71	0.8	XS5	2	400 cfs	400	1211.95	1212.6	1212.6	1212.89	0.021712	4.28	93.38	164.79	1	0.65	0.035
XS5	2	600 cfs	600	1211.95	1213.06		1213.25	0.012041	3.44	174.25	188.04	0.63	1.11	XS5	2	600 cfs	600	1211.95	1212.8	1212.79	1213.15	0.018956	4.72	127.03	174.84	0.98	0.85	0.035
XS5	2	800 cfs	800	1211.95	1213.33		1213.52	0.009827	3.54	226.3	201.59	0.59	1.38	XS5	2	800 cfs	800	1211.95	1213.03	1212.95	1213.38	0.014237	4.74	168.83	186.57	0.88	1.08	0.035
XS5	2	1000 cfs	1000	1211.95	1213.57		1213.77	0.008542	3.62	276.25	213.78	0.56	1.62	XS5	2	1000 cfs	1000	1211.95	1213.24		1213.6	0.01179	4.79	208.81	197.14	0.82	1.29	0.035
XS5	2	1200 cfs	1200	1211.95	1213.79		1214	0.007709	3.7	324.34	224.9	0.54	1.84	XS5	2	1200 cfs	1200	1211.95	1213.43		1213.8	0.010282	4.85	247.42	206.83	0.78	1.48	0.035
XS5	2	1400 cfs	1400	1211.95	1213.99		1214.21	0.00711	3.77	371.09	235.2	0.53	2.04	XS5	2	1400 cfs	1400	1211.95	1213.61		1213.98	0.009258	4.91	284.87	215.82	0.75	1.66	0.035
XS5	2	1600 cfs	1600	1211.95	1214.18		1214.41	0.006663	3.84	416.59	244.82	0.52	2.23	XS5	2	1600 cfs	1600	1211.95	1213.77		1214.16	0.008514	4.98	321.37	224.23	0.73	1.82	0.035
XS5	2	1800 cfs	1800	1211.95	1214.36		1214.59	0.006323	3.91	460.78	253.8	0.51	2.41	XS5	2	1800 cfs	1800	1211.95	1213.93		1214.33	0.007957	5.04	356.89	232.12	0.72	1.98	0.035
XS5	2	2000 cfs	2000	1211.95	1214.53		1214.77	0.006036	3.97	504.38	262.37	0.5	2.58	XS5	2	2000 cfs	2000	1211.95	1214.08		1214.48	0.007507	5.1	391.84	239.64	0.7	2.13	0.035
XS5	1	20 cfs	20	1210.95	1211.22	1211.06	1211.22	0.002302	0.6	33.54	145.22	0.22	0.27	XS5	1	20 cfs	20	1210.95	1211.18	1211.06	1211.19	0.002302	0.7	28.71	143.52	0.27	0.23	0.035
XS5	1	40 cfs	40	1210.95	1211.34	1211.12	1211.35	0.002302	0.77	51.7	151.42	0.23	0.39	XS5	1	40 cfs	40	1210.95	1211.29	1211.11	1211.3	0.002301	0.91	44.16	148.88	0.29	0.34	0.035
XS5	1	60 cfs	60	1210.95	1211.44	1211.16	1211.45	0.002301	0.9	66.8	156.4	0.24	0.49	XS5	1	60 cfs	60	1210.95	1211.37	1211.16	1211.39	0.002301	1.05	56.98	153.18	0.3	0.42	0.035
XS5	1	80 cfs	80	1210.95	1211.52	1211.2	1211.54	0.002304	1	80.21	160.69	0.25	0.57	XS5	1	80 cfs	80	1210.95	1211.45	1211.2	1211.47	0.0023	1.17	68.37	156.91	0.31	0.5	0.035
XS5	1	100 cfs	100	1210.95	1211.6	1211.23	1211.62	0.002301	1.08	92.62	164.56	0.25	0.65	XS5	1	100 cfs	100	1210.95	1211.51	1211.23	1211.54	0.0023	1.27	78.82	160.25	0.32	0.56	0.035
XS5	1	120 cfs	120	1210.95	1211.67	1211.26	1211.69	0.002299	1.15	104.23	168.1	0.26	0.72	XS5	1	120 cfs	120	1210.95	1211.57	1211.26	1211.6	0.002302	1.35	88.58	163.31	0.32	0.62	0.035
XS5	1	140 cfs	140	1210.95	1211.73	1211.29	1211.76	0.002301	1.22	115.19	171.37	0.26	0.78	XS5	1	140 cfs	140	1210.95	1211.63	1211.29	1211.66	0.002302	1.43	97.85	166.16	0.33	0.68	0.035
XS5	1	160 cfs	160	1210.95	1211.79	1211.32	1211.82	0.002304	1.27	125.64	174.44	0.26	0.84	XS5	1	160 cfs	160	1210.95	1211.68	1211.32	1211.72	0.002301	1.5	106.7	168.84	0.33	0.73	0.035
XS5	1	180 cfs	180	1210.95	1211.85	1211.35	1211.88	0.002301	1.33	135.8	177.37	0.27	0.9	XS5	1	180 cfs	180	1210.95	1211.73	1211.35	1211.77	0.0023	1.56	115.22	171.38	0.34	0.78	0.035
XS5	1	200 cfs	200	1210.95	1211.91	1211.38	1211.93	0.002302	1.37	145.55	180.13	0.27	0.95	XS5	1	200 cfs	200	1210.95	1211.78	1211.38	1211.82	0.002303	1.62	123.37	173.78	0.34	0.83	0.035
XS5	1	400 cfs	400	1210.95	1212.35	1211.6	1212.4	0.002301	1.73	231.39	202.86	0.29	1.4	XS5	1	400 cfs	400	1210.95	1212.17	1211.6	1212.24	0.002301	2.05	195.33	193.64	0.36	1.22	0.035
XS5	1	600 cfs	600	1210.95	1212.7	1211.79	1212.76	0.002301	1.97	305.14	220.53	0.29	1.75	XS5	1	600 cfs	600	1210.95	1212.48	1211.79	1212.56	0.0023	2.34	256.94	209.15	0.37	1.53	0.035
XS5	1	800 cfs	800	1210.95	1213	1211.94	1213.07	0.002302	2.15	372.18	235.44	0.3	2.05	XS5	1	800 cfs	800	1210.95	1212.74	1211.95	1212.84	0.002302	2.56	312.82	222.29	0.38	1.79	0.035
XS5	1	1000 cfs	1000	1210.95	1213.25	1212.09	1213.34	0.002301	2.3	434.9	248.58	0.31	2.3	XS5	1	1000 cfs	1000	1210.95	1212.97	1212.09	1213.08	0.002301	2.74	365.02	233.89	0.39	2.01	0.035
XS5	1	1200 cfs	1200	1210.95	1213.49	1212.23	1213.58	0.002303	2.43	494.17	260.39	0.31	2.54	XS5	1	1200 cfs	1200	1210.95	1213.17	1212.23	1213.3	0.002301	2.9	414.44	244.37	0.39	2.22	0.035
XS5	1	1400 cfs	1400	1210.95	1213.7	1212.35	1213.8	0.002301	2.54	551.12	271.25	0.31	2.75	XS5	1	1400 cfs	1400	1210.95	1213.36	1212.35	1213.5	0.002301	3.03	461.68	253.98	0.4	2.41	0.035
XS5	1	1600 cfs	1600	1210.95	1213.9	1212.46	1214.01	0.0023	2.64	605.93	281.31	0.32	2.95	XS5	1	1600 cfs	1600	1210.95	1213.54	1212.46	1213.69	0.002301	3.15	507.14	262.9	0.4	2.59	0.035
XS5	1	1800 cfs	1800	1210.95	1214.08	1212.57	121																					

XS 6

Shift = 1120

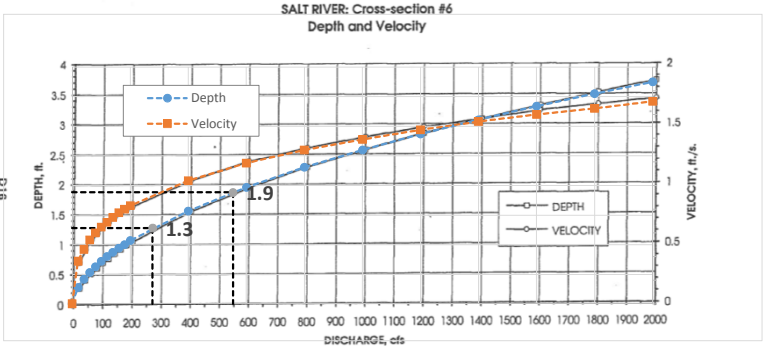
Appendix D Contour Map

Distance (ft)	Elevation (ft)	Distance (ft)	Shift	Elevation (ft)
997.73	1311.11	0	1120	1310
1059.73	1310.13	100	1220	1300
1148.18	1304.89	590	1710	1295
1226.97	1300.12	765	1885	1290
1408.76	1298.22	905	2025	1286
1567.14	1296.57	1105	2225	1286
1706.25	1294.98	1195	2315	1290
1819.34	1291.51	1285	2405	1295
1884.15	1289.75	1335	2455	1300
1968.24	1287.84			
2038.53	1286.29			
2233.94	1286.31			
2298.36	1289.85			
2377.90	1293.75			
2408.05	1295.41			
2465.52	1299.94			
		1979	1287.6	2118 1287.6 276 cfs
		2257	1287.6	2111 1288.2 550 cfs
				2081 1290.8 1230 cfs
		1953	1288.2	
		2268	1288.2	
		1844	1290.8	2088 1285
		2319	1290.8	1875 1290
				1704 1295
				1238 1300
				1146 1305
				1062 1310
				2302 1290
				2401 1295
				2466 1300
				2530 1305
				2593 1310



XS 6

Q cfs	Depth	Velocity	Depth	Vel	Width	WSEL	Q cfs	Depth	Velocity	Depth	Vel	Width	WSEL
0	0	0	0	1.3	0.9	277.5	1287.6	0	1.3	0.9	277.5	1287.6	
20	0.28	0.36	277	1.3			160	1.3					
40	0.42	0.46	277	0.0			160	0.0					
60	0.53	0.54	0	1.9	1.2	314.7	1288.2	0	1.9	1.2	314.7	1288.2	
80	0.63	0.6	554	1.9			348	1.9					
100	0.72	0.65	554	0.0			348	0.0					
120	0.8	0.69	0	4.7	2.0	476.9	1290.8	0	4.7	2.0	476.9	1290.8	
140	0.87	0.73	3062	4.7			2240	4.7					
160	0.94	0.77	3062	0.0			2240	0.0					
180	1	0.8	0	1.5	1.0	288.3	1287.8	0	1.5	1.0	288.3	1287.8	
200	1.07	0.83	348	1.5									
400	1.57	1.04	348	0.0									
600	1.97	1.19	0	2.9	1.5	377.9	1289	0	2.9	1.5	377.9	1289	
800	2.31	1.3	1230	2.9									
1000	2.6	1.39	1230	0.0									
1200	2.87	1.47											
1400	3.11	1.54											
1600	3.34	1.6											
1800	3.55	1.65											
2000	3.75	1.71											



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Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	Chl Dpth (ft)	Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude #	C Max	Chl Dpth (ft)	Mann	Wtd	Total
XS6	2	20 cfs	20	1287.29	1287.36	1287.36	1287.4	0.089671	1.57	12.7	199.76	1.1	0.07	XS6	2	20 cfs	20	1287.29	1287.37	1287.37	1287.4	0.049383	1.53	13.06	199.88	1.06	0.08	0.035			
XS6	2	40 cfs	40	1287.29	1287.41	1287.41	1287.46	0.061851	1.85	21.64	202.59	1	0.12	XS6	2	40 cfs	40	1287.29	1287.41	1287.41	1287.46	0.037416	1.85	21.64	202.59	1	0.12	0.035			
XS6	2	60 cfs	60	1287.29	1287.44	1287.44	1287.51	0.056674	2.11	28.45	204.71	1	0.15	XS6	2	60 cfs	60	1287.29	1287.44	1287.44	1287.51	0.034284	2.11	28.45	204.71	1	0.15	0.035			
XS6	2	80 cfs	80	1287.29	1287.47	1287.47	1287.56	0.053312	2.31	34.6	206.61	1	0.18	XS6	2	80 cfs	80	1287.29	1287.47	1287.47	1287.56	0.032365	2.32	34.52	206.59	1	0.18	0.035			
XS6	2	100 cfs	100	1287.29	1287.5	1287.5	1287.6	0.050911	2.49	40.2	208.33	1	0.21	XS6	2	100 cfs	100	1287.29	1287.5	1287.5	1287.6	0.030734	2.49	40.22	208.33	1	0.21	0.035			
XS6	2	120 cfs	120	1287.29	1287.52	1287.52	1287.63	0.048981	2.64	45.51	209.94	1	0.23	XS6	2	120 cfs	120	1287.29	1287.52	1287.52	1287.63	0.02963	2.64	45.51	209.94	1	0.23	0.035			
XS6	2	140 cfs	140	1287.29	1287.55	1287.55	1287.67	0.048218	2.78	50.29	211.38	1.01	0.26	XS6	2	140 cfs	140	1287.29	1287.55	1287.55	1287.67	0.029169	2.78	50.29	211.38	1.01	0.26	0.035			
XS6	2	160 cfs	160	1287.29	1287.57	1287.57	1287.7	0.046147	2.89	55.37	212.9	1	0.28	XS6	2	160 cfs	160	1287.29	1287.57	1287.57	1287.7	0.027874	2.89	55.39	212.91	1	0.28	0.035			
XS6	2	180 cfs	180	1287.29	1287.59	1287.59	1287.73	0.045047	3	60.01	214.28	1	0.3	XS6	2	180 cfs	180	1287.29	1287.59	1287.59	1287.73	0.027598	3.01	59.77	214.21	1.01	0.3	0.035			
XS6	2	200 cfs	200	1287.29	1287.61	1287.61	1287.76	0.044093	3.1	64.49	215.61	1	0.32	XS6	2	200 cfs	200	1287.29	1287.61	1287.61	1287.76	0.026534	3.1	64.6	215.64	1	0.32	0.035			
XS6	2	400 cfs	400	1287.29	1287.98		1288.1	0.012659	2.7	148.12	238.99	0.6	0.69	XS6	2	400 cfs	400	1287.29	1287.79	1287.79	1288.02	0.023245	3.85	103.98	226.95	1	0.5	0.035			
XS6	2	600 cfs	600	1287.29	1288.37		1288.46	0.006057	2.45	245.07	263.51	0.45	1.08	XS6	2	600 cfs	600	1287.29	1288.07		1288.27	0.011279	3.53	169.79	244.69	0.75	0.78	0.035			
XS6	2	800 cfs	800	1287.29	1288.69		1288.78	0.004223	2.39	334.51	284.26	0.39	1.4	XS6	2	800 cfs	800	1287.29	1288.37		1288.54	0.006455	3.25	245.81	263.69	0.59	1.08	0.035			
XS6	2	1000 cfs	1000	1287.29	1288.98		1289.07	0.003375	2.38	419.32	302.44	0.36	1.69	XS6	2	1000 cfs	1000	1287.29	1288.63		1288.78	0.004741	3.17	315.8	280.05	0.53	1.34	0.035			
XS6	2	1200 cfs	1200	1287.29	1289.25		1289.33	0.002887	2.4	500.64	318.74	0.34	1.95	XS6	2	1200 cfs	1200	1287.29	1288.86		1289.01	0.003852	3.14	382.75	294.83	0.49	1.57	0.035			
XS6	2	1400 cfs	1400	1287.29	1289.48		1289.58	0.002576	2.42	578.77	333.64	0.32	2.19	XS6	2	1400 cfs	1400	1287.29	1289.07		1289.23	0.003314	3.13	447	308.09	0.46	1.78	0.035			
XS6	2	1600 cfs	1600	1287.29	1289.71		1289.8	0.002351	2.44	655.06	347.58	0.31	2.42	XS6	2	1600 cfs	1600	1287.29	1289.27		1289.43	0.002953	3.14	509.3	320.42	0.44	1.98	0.035			
XS6	2	1800 cfs	1800	1287.29	1289.92		1290.01	0.002189	2.47	728.93	360.56	0.31	2.63	XS6	2	1800 cfs	1800	1287.29	1289.46		1289.61	0.002692	3.16	570.03	332.01	0.42	2.17	0.035			
XS6	2	2000 cfs	2000	1287.29	1290.11		1290.21	0.002069	2.5	800.12	372.64	0.3	2.82	XS6	2	2000 cfs	2000	1287.29	1289.63		1289.79	0.002495	3.18	629.35	342.94	0.41	2.34	0.035			
XS6	1	20 cfs	20	1286.29	1286.57	1286.36	1286.58	0.000701	0.36	55.86	213.05	0.12	0.28	XS6	1	20 cfs	20	1286.29	1286.54	1286.37	1286.54	0.0007	0.42	47.84	210.65	0.15	0.25	0.035			
XS6	1	40 cfs	40	1286.29	1286.71	1286.41	1286.72	0.000701	0.46	86.04	221.87	0.13	0.42	XS6	1	40 cfs	40	1286.29	1286.66	1286.41	1286.66	0.000701	0.54	73.52	218.26	0.17	0.37	0.035			
XS6	1	60 cfs	60	1286.29	1286.82	1286.44	1286.83	0.0007	0.54	111.16	228.95	0.14	0.53	XS6	1	60 cfs	60	1286.29	1286.75	1286.44	1286.76	0.0007	0.63	94.84	224.38	0.17	0.46	0.035			
XS6	1	80 cfs	80	1286.29	1286.92	1286.47	1286.93	0.000701	0.6	133.45	235.06	0.14	0.63	XS6	1	80 cfs	80	1286.29	1286.84	1286.47	1286.84	0.000701	0.7	113.74	229.67	0.18	0.54	0.035			
XS6	1	100 cfs	100	1286.29	1287.01	1286.5	1287.01	0.000701	0.65	154.01	240.55	0.14	0.72	XS6	1	100 cfs	100	1286.29	1286.91	1286.5	1286.92	0.000701	0.76	131.1	234.42	0.18	0.62	0.035			
XS6	1	120 cfs	120	1286.29	1287.09	1286.52	1287.09	0.0007	0.69	173.29	245.59	0.15	0.8	XS6	1	120 cfs	120	1286.29	1286.98	1286.52	1286.99	0.000701	0.81	147.33	238.78	0.18	0.69	0.035			
XS6	1	140 cfs	140	1286.29	1287.16	1286.55	1287.17	0.000701	0.73	191.48	250.26	0.15	0.87	XS6	1	140 cfs	140	1286.29	1287.04	1286.55	1287.05	0.000701	0.86	162.71	242.84	0.19	0.75	0.035			
XS6	1	160 cfs	160	1286.29	1287.23	1286.57	1287.24	0.0007	0.77	208.95	254.65	0.15	0.94	XS6	1	160 cfs	160	1286.29	1287.1	1286.57	1287.12	0.0007	0.9	177.41	246.66	0.19	0.81	0.035			
XS6	1	180 cfs	180	1286.29	1287.29	1286.59	1287.3	0.0007	0.8	225.72	258.8	0.15	1	XS6	1	180 cfs	180	1286.29	1287.16	1286.59	1287.17	0.000701	0.94	191.45	250.25	0.19	0.87	0.035			
XS6	1	200 cfs	200	1286.29	1287.36	1286.61	1287.37	0.0007	0.83	241.89	262.74	0.15	1.07	XS6	1	200 cfs	200	1286.29	1287.21	1286.61	1287.23	0.000701	0.98	205.11	253.69	0.19	0.92	0.035			
XS6	1	400 cfs	400	1286.29	1287.87	1286.79	1287.88	0.000701	1.04	383.98	295.08	0.16	1.57	XS6	1	400 cfs	400	1286.29	1287.66	1286.79	1287.68	0.000701	1.23	324.24	281.96	0.2	1.37	0.035			
XS6	1	600 cfs	600	1286.29	1288.26	1286.94	1288.28	0.0007	1.19	505.86	319.75	0.17	1.97	XS6	1	600 cfs	600	1286.29	1288.01	1286.94	1288.04	0.000701	1.41	426.2	303.86	0.21	1.72	0.035			
XS6	1	800 cfs	800	1286.29	1288.6	1287.07	1288.62	0.0007	1.3	616.5	340.6	0.17	2.31	XS6	1	800 cfs	800	1286.29	1288.3	1287.07	1288.34	0.0007	1.54	518.56	322.22	0.21	2.01	0.035			
XS6	1	1000 cfs	1000	1286.29	1288.89	1287.19	1288.92	0.0007	1.39	719.79	358.98	0.17	2.6	XS6	1	1000 cfs	1000	1286.29	1288.56	1287.19	1288.6	0.000701	1.65	604.36	338.38	0.22	2.27	0.035			
XS6	1	1200 cfs	1200	1286.29	1289.16	1287.3	1289.19	0.0007	1.47	817.66	375.56	0.18	2.87	XS6	1	1200 cfs	1200	1286.29	1288.8	1287.29	1288.84	0.000701	1.75	685.89	353.05	0.22	2.51	0.035			
XS																															

Cross Section 6

