

*Anexo 4: Tabla de cálculos y resultados de la modelación en HEC-RAS del río La Leche durante el fenómeno del niño*

Reach	River Sta	Profile	Q Total (m <sup>3</sup> /s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m <sup>2</sup> )	Top Width (m)	Froude # Chl
EJE RIO	10066.59	FN	450.00	57.33	62.09	59.50	62.15	0.000640	1.13	418.75	139.72	0.18
EJE RIO	10060	FN	450.00	57.24	62.09		62.15	0.000521	1.08	443.57	139.90	0.17
EJE RIO	10040	FN	450.00	56.96	62.09		62.14	0.000406	1.01	474.43	139.84	0.15
EJE RIO	10020	FN	450.00	56.78	62.06		62.13	0.000525	1.15	428.26	140.00	0.17
EJE RIO	10000	FN	450.00	56.63	62.05		62.12	0.000507	1.20	424.45	142.62	0.17
EJE RIO	9980	FN	450.00	56.47	62.04		62.10	0.000543	1.26	410.56	139.65	0.18
EJE RIO	9960	FN	450.00	56.57	62.02		62.09	0.000584	1.27	404.84	140.00	0.18
EJE RIO	9940	FN	450.00	56.72	62.01		62.08	0.000595	1.27	404.12	140.00	0.18
EJE RIO	9920	FN	450.00	56.80	61.99		62.07	0.000725	1.33	382.46	140.00	0.20
EJE RIO	9900	FN	450.00	56.56	61.97		62.05	0.000729	1.38	377.78	139.90	0.20
EJE RIO	9880	FN	450.00	56.57	61.93		62.03	0.001057	1.56	335.74	139.60	0.24
EJE RIO	9860	FN	450.00	56.58	61.87		62.01	0.001311	1.73	300.69	139.80	0.27
EJE RIO	9840	FN	450.00	56.59	61.85		61.98	0.001181	1.69	301.12	118.06	0.26
EJE RIO	9820	FN	450.00	56.47	61.84		61.95	0.000954	1.55	324.55	117.97	0.23
EJE RIO	9800	FN	450.00	56.51	61.81		61.93	0.001001	1.61	296.40	88.46	0.24
EJE RIO	9780	FN	450.00	56.57	61.74		61.90	0.001661	1.83	251.35	74.25	0.30
EJE RIO	9760	FN	450.00	56.73	61.76		61.86	0.000903	1.46	315.85	84.90	0.23
EJE RIO	9740	FN	450.00	57.10	61.75		61.84	0.000743	1.36	335.35	90.13	0.21
EJE RIO	9720	FN	450.00	57.21	61.71		61.82	0.000881	1.46	309.89	88.56	0.22
EJE RIO	9700	FN	450.00	57.18	61.69		61.80	0.000893	1.47	316.58	97.49	0.23
EJE RIO	9680	FN	450.00	57.13	61.63		61.78	0.001494	1.66	278.03	103.01	0.28
EJE RIO	9660	FN	450.00	56.69	61.61		61.75	0.001194	1.72	289.56	104.14	0.26
EJE RIO	9640	FN	450.00	56.47	61.59		61.72	0.001155	1.71	288.81	98.04	0.25
EJE RIO	9620	FN	450.00	56.63	61.51		61.69	0.001710	1.93	252.79	97.50	0.30
EJE RIO	9600	FN	450.00	56.83	61.44		61.65	0.002408	2.08	227.74	85.53	0.35
EJE RIO	9580	FN	450.00	56.80	61.38		61.60	0.002430	2.08	222.63	73.21	0.35
EJE RIO	9560	FN	450.00	56.47	61.38		61.55	0.001545	1.80	253.34	68.35	0.29
EJE RIO	9540	FN	450.00	56.34	61.37		61.51	0.001085	1.68	273.88	70.48	0.25
EJE RIO	9520	FN	450.00	56.27	61.36		61.49	0.001148	1.60	284.06	72.96	0.25
EJE RIO	9500	FN	450.00	56.20	61.35		61.46	0.000980	1.49	304.04	75.82	0.23
EJE RIO	9480	FN	450.00	56.27	61.32		61.44	0.001074	1.56	297.95	93.54	0.24
EJE RIO	9460	FN	450.00	56.56	61.28		61.42	0.001253	1.67	283.67	100.57	0.26
EJE RIO	9440	FN	450.00	56.69	61.23		61.38	0.001749	1.80	265.11	111.90	0.30
EJE RIO	9420	FN	450.00	56.52	61.20		61.35	0.001927	1.75	268.87	117.62	0.31
EJE RIO	9400	FN	450.00	56.61	61.08		61.29	0.003423	2.08	226.72	116.41	0.40
EJE RIO	9380	FN	450.00	56.30	61.09		61.23	0.001686	1.71	279.49	112.75	0.29
EJE RIO	9360	FN	450.00	56.06	61.09		61.19	0.001009	1.51	320.45	111.26	0.24
EJE RIO	9340	FN	450.00	56.06	61.06		61.17	0.001102	1.49	313.83	97.00	0.24
EJE RIO	9320	FN	450.00	56.14	61.03		61.15	0.001222	1.55	300.84	93.68	0.26
EJE RIO	9300	FN	450.00	55.88	61.02		61.12	0.000913	1.43	329.37	97.02	0.23
EJE RIO	9280	FN	450.00	56.24	60.94		61.09	0.002017	1.80	261.45	99.49	0.32
EJE RIO	9260	FN	450.00	56.18	60.83		61.04	0.003013	2.06	230.41	102.22	0.39
EJE RIO	9240	FN	450.00	56.12	60.21	59.76	60.88	0.013074	3.69	129.34	82.69	0.77
EJE RIO	9220	FN	450.00	56.03	60.32		60.62	0.004786	2.51	189.57	93.89	0.48
EJE RIO	9200	FN	450.00	56.01	60.24		60.54	0.003720	2.46	193.61	87.92	0.43
EJE RIO	9180	FN	450.00	55.97	59.27	59.27	60.32	0.021154	4.59	99.66	47.73	0.98
EJE RIO	9160	FN	450.00	55.93	59.45	58.65	59.87	0.007197	2.93	159.76	72.20	0.58
EJE RIO	9140	FN	450.00	55.87	58.94		59.65	0.012296	3.66	120.41	49.59	0.76
EJE RIO	9120	FN	450.00	55.79	58.88		59.38	0.008884	3.04	144.96	61.29	0.63
EJE RIO	9100	FN	450.00	55.75	58.82		59.21	0.006093	2.74	162.74	65.63	0.54
EJE RIO	9080	FN	450.00	55.73	58.58		59.06	0.008797	3.07	149.71	80.51	0.64
EJE RIO	9060	FN	450.00	55.27	58.40		58.88	0.009106	3.11	150.19	83.56	0.65
EJE RIO	9040	FN	450.00	53.75	58.49		58.71	0.002735	2.16	230.86	108.71	0.37
EJE RIO	9020	FN	450.00	52.79	58.48		58.64	0.002151	1.90	264.12	125.18	0.33
EJE RIO	9000	FN	450.00	52.75	58.53		58.59	0.000572	1.15	423.39	140.00	0.18
EJE RIO	8980	FN	450.00	52.65	58.54		58.58	0.000239	0.90	547.14	140.00	0.12
EJE RIO	8960	FN	450.00	54.70	58.06		58.52	0.009548	3.11	159.14	116.96	0.66
EJE RIO	8940	FN	450.00	53.08	58.34		58.38	0.000271	0.88	538.77	140.00	0.13
EJE RIO	8920	FN	450.00	52.63	58.34		58.37	0.000195	0.80	595.85	140.00	0.11
EJE RIO	8900	FN	450.00	52.43	58.34		58.37	0.000191	0.79	598.87	140.00	0.11
EJE RIO	8880	FN	450.00	52.39	58.34		58.37	0.000183	0.78	605.81	140.00	0.11
EJE RIO	8860	FN	450.00	52.72	58.33		58.36	0.000194	0.80	595.91	140.00	0.11
EJE RIO	8840	FN	450.00	52.83	58.32		58.36	0.000279	0.92	526.27	140.56	0.13
EJE RIO	8820	FN	450.00	52.71	58.30		58.35	0.000352	1.01	481.95	140.00	0.14
EJE RIO	8800	FN	450.00	52.62	58.30		58.34	0.000326	0.98	475.39	117.37	0.14
EJE RIO	8780	FN	450.00	52.70	58.28		58.33	0.000382	1.03	453.37	114.19	0.15
EJE RIO	8760	FN	450.00	52.74	58.28		58.33	0.000307	0.97	486.47	126.44	0.14
EJE RIO	8740	FN	450.00	52.76	58.27		58.32	0.000323	0.97	488.55	139.17	0.14
EJE RIO	8720	FN	450.00	52.74	58.26		58.31	0.000434	1.03	462.77	139.90	0.16
EJE RIO	8700	FN	450.00	52.69	58.26		58.30	0.000388	0.98	485.00	139.40	0.15
EJE RIO	8680	FN	450.00	52.65	58.26		58.29	0.000276	0.88	540.83	140.00	0.13
EJE RIO	8660	FN	450.00	52.50	58.26		58.28	0.000178	0.77	615.56	140.00	0.10
EJE RIO	8640	FN	450.00	52.52	58.25		58.28	0.000185	0.78	606.81	140.00	0.11
EJE RIO	8620	FN	450.00	52.55	58.25		58.28	0.000184	0.78	606.68	140.00	0.11
EJE RIO	8600	FN	450.00	52.50	58.24		58.27	0.000185	0.79	605.17	140.00	0.11
EJE RIO	8580	FN	450.00	52.42	58.24		58.27	0.000189	0.80	599.82	140.00	0.11
EJE RIO	8560	FN	450.00	52.35	58.24		58.27	0.000191	0.81	596.25	140.00	0.11



Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m³/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m²)	(m)	
EJE RIO	8540	FN	450.00	52.28	58.23		58.26	0.000186	0.80	601.33	140.00	0.11
EJE RIO	8520	FN	450.00	52.22	58.23		58.26	0.000182	0.80	604.64	140.00	0.11
EJE RIO	8500	FN	450.00	52.19	58.23		58.25	0.000180	0.80	606.73	140.00	0.11
EJE RIO	8480	FN	450.00	52.20	58.22		58.25	0.000169	0.78	620.31	140.00	0.10
EJE RIO	8460	FN	450.00	52.21	58.22		58.25	0.000157	0.75	639.09	140.00	0.10
EJE RIO	8440	FN	450.00	52.24	58.22		58.24	0.000141	0.71	662.24	140.00	0.09
EJE RIO	8420	FN	450.00	52.26	58.22		58.24	0.000123	0.67	691.04	140.00	0.09
EJE RIO	8400	FN	450.00	52.25	58.22		58.24	0.000121	0.67	691.77	140.00	0.09
EJE RIO	8380	FN	450.00	52.24	58.21		58.23	0.000162	0.73	638.25	140.00	0.10
EJE RIO	8360	FN	450.00	52.25	58.20		58.23	0.000199	0.76	603.80	140.00	0.11
EJE RIO	8340	FN	450.00	52.33	58.20		58.23	0.000148	0.70	657.99	140.00	0.10
EJE RIO	8320	FN	450.00	52.25	58.20		58.22	0.000179	0.75	621.64	140.00	0.10
EJE RIO	8300	FN	450.00	52.15	58.19		58.22	0.000163	0.73	639.86	140.00	0.10
EJE RIO	8280	FN	450.00	52.09	58.19		58.22	0.000153	0.71	651.79	140.00	0.10
EJE RIO	8260	FN	450.00	52.13	58.19		58.21	0.000169	0.73	634.96	140.00	0.10
EJE RIO	8240	FN	450.00	52.26	58.17		58.21	0.000234	0.82	572.48	139.98	0.12
EJE RIO	8220	FN	450.00	52.09	58.16		58.20	0.000284	0.94	516.58	134.91	0.13
EJE RIO	8200	FN	450.00	52.67	58.13		58.19	0.000536	1.14	428.83	138.83	0.17
EJE RIO	8180	FN	450.00	52.42	58.11		58.18	0.000637	1.20	407.79	139.90	0.19
EJE RIO	8160	FN	450.00	52.49	58.11		58.17	0.000426	1.08	452.95	140.00	0.16
EJE RIO	8140	FN	450.00	52.46	58.08		58.15	0.000734	1.28	383.51	140.00	0.20
EJE RIO	8120	FN	450.00	52.41	58.07		58.14	0.000535	1.18	415.23	138.59	0.18
EJE RIO	8100	FN	450.00	52.34	58.07		58.12	0.000391	1.04	468.75	138.99	0.15
EJE RIO	8080	FN	450.00	52.00	58.08		58.11	0.000156	0.67	633.48	140.00	0.10
EJE RIO	8060	FN	450.00	53.07	58.04		58.10	0.000357	0.78	467.33	138.29	0.14
EJE RIO	8040	FN	450.00	52.68	58.04		58.09	0.000369	0.82	473.50	139.90	0.14
EJE RIO	8020	FN	450.00	51.82	58.06		58.08	0.000156	0.69	645.96	140.00	0.10
EJE RIO	8000	FN	450.00	51.83	58.05		58.08	0.000139	0.69	669.36	140.00	0.09
EJE RIO	7980	FN	450.00	51.66	58.05		58.07	0.000139	0.68	674.84	140.00	0.09
EJE RIO	7960	FN	450.00	51.87	58.04		58.07	0.000206	0.79	587.62	140.18	0.11
EJE RIO	7940	FN	450.00	51.94	58.00		58.06	0.000572	1.14	409.15	139.46	0.18
EJE RIO	7920	FN	450.00	51.94	57.97		58.05	0.000662	1.23	384.92	140.00	0.19
EJE RIO	7900	FN	450.00	52.03	57.94		58.03	0.000825	1.33	357.26	140.00	0.21
EJE RIO	7880	FN	450.00	52.16	57.91		58.01	0.001015	1.43	332.41	140.00	0.23
EJE RIO	7860	FN	450.00	52.13	57.90		57.99	0.000714	1.37	365.49	140.00	0.20
EJE RIO	7840	FN	450.00	51.64	57.88		57.97	0.000809	1.46	345.18	139.08	0.21
EJE RIO	7820	FN	450.00	51.60	57.87		57.95	0.000582	1.30	378.34	140.01	0.18
EJE RIO	7800	FN	450.00	51.70	57.86		57.94	0.000554	1.27	386.47	125.15	0.18
EJE RIO	7780	FN	450.00	51.96	57.84		57.93	0.000688	1.37	361.13	108.19	0.20
EJE RIO	7760	FN	450.00	52.25	57.79		57.91	0.001141	1.55	310.70	105.14	0.25
EJE RIO	7740	FN	450.00	52.64	57.74		57.88	0.001677	1.67	277.04	103.68	0.29
EJE RIO	7720	FN	450.00	52.93	57.73		57.84	0.001160	1.51	311.04	105.56	0.25
EJE RIO	7700	FN	450.00	52.40	57.68		57.81	0.001566	1.68	280.73	102.40	0.29
EJE RIO	7680	FN	450.00	51.86	57.70		57.78	0.000606	1.31	372.90	108.53	0.19
EJE RIO	7660	FN	450.00	51.77	57.64		57.76	0.001098	1.56	314.54	111.79	0.25
EJE RIO	7640	FN	450.00	51.82	57.63		57.73	0.001080	1.54	320.15	117.15	0.24
EJE RIO	7620	FN	450.00	51.88	57.61		57.71	0.001116	1.52	323.43	122.51	0.25
EJE RIO	7600	FN	450.00	51.51	57.62		57.69	0.000452	1.17	425.25	128.03	0.16
EJE RIO	7580	FN	450.00	53.97	57.53		57.66	0.001849	1.69	286.62	133.08	0.30
EJE RIO	7560	FN	450.00	54.10	57.47		57.62	0.002250	1.76	273.00	138.28	0.33
EJE RIO	7540	FN	450.00	52.02	57.50		57.58	0.000634	1.24	398.71	139.90	0.18
EJE RIO	7520	FN	450.00	52.88	57.41		57.55	0.002010	1.71	283.06	139.90	0.32
EJE RIO	7500	FN	450.00	54.33	56.92	56.92	57.42	0.017239	3.29	149.05	139.50	0.84
EJE RIO	7480	FN	450.00	54.02	56.86	56.50	57.14	0.006872	2.53	196.60	139.40	0.55
EJE RIO	7460	FN	450.00	52.76	56.90		57.04	0.001672	1.71	294.53	140.00	0.29
EJE RIO	7440	FN	450.00	51.45	56.91		57.00	0.000838	1.42	357.13	140.00	0.21
EJE RIO	7420	FN	450.00	51.50	56.90		56.98	0.000795	1.39	364.63	140.00	0.20
EJE RIO	7400	FN	450.00	51.55	56.88		56.97	0.000723	1.37	372.53	140.00	0.20
EJE RIO	7380	FN	450.00	51.55	56.87		56.95	0.000642	1.36	381.00	140.00	0.19
EJE RIO	7360	FN	450.00	51.50	56.85		56.94	0.000697	1.40	371.81	139.90	0.20
EJE RIO	7340	FN	450.00	51.46	56.84		56.93	0.000669	1.39	378.24	140.00	0.20
EJE RIO	7320	FN	450.00	51.42	56.84		56.91	0.000531	1.31	403.44	140.00	0.18
EJE RIO	7300	FN	450.00	51.40	56.82		56.90	0.000555	1.34	398.32	140.00	0.18
EJE RIO	7280	FN	450.00	51.37	56.81		56.89	0.000574	1.36	394.39	139.70	0.19
EJE RIO	7260	FN	450.00	51.35	56.79		56.88	0.000648	1.40	383.89	139.90	0.20
EJE RIO	7240	FN	450.00	51.32	56.78		56.86	0.000697	1.42	374.54	139.80	0.20
EJE RIO	7220	FN	450.00	51.18	56.76		56.85	0.000611	1.39	384.64	139.80	0.19
EJE RIO	7200	FN	450.00	51.20	56.75		56.83	0.000688	1.41	375.58	139.90	0.20
EJE RIO	7180	FN	450.00	51.22	56.73		56.82	0.000758	1.44	368.47	140.00	0.20
EJE RIO	7160	FN	450.00	51.42	56.70		56.80	0.001013	1.55	340.43	139.90	0.24
EJE RIO	7140	FN	450.00	51.29	56.69		56.78	0.000824	1.45	360.84	139.80	0.21
EJE RIO	7120	FN	450.00	51.18	56.69		56.76	0.000560	1.32	398.28	139.90	0.18
EJE RIO	7100	FN	450.00	51.17	56.67		56.75	0.000605	1.35	388.91	136.99	0.19
EJE RIO	7080	FN	450.00	51.16	56.66		56.74	0.000611	1.30	397.08	140.00	0.19
EJE RIO	7060	FN	450.00	51.24	56.66		56.72	0.000516	1.23	417.53	140.00	0.17
EJE RIO	7040	FN	450.00	51.29	56.62		56.71	0.000927	1.37	356.98	140.00	0.22
EJE RIO	7020	FN	450.00	51.27	56.60		56.69	0.000949	1.39	352.74	140.00	0.23



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
EJE RIO	7000	FN	450.00	51.14	56.60		56.67	0.000616	1.26	397.76	140.00	0.19
EJE RIO	6980	FN	450.00	51.14	56.56		56.65	0.001010	1.42	344.05	140.00	0.23
EJE RIO	6960	FN	450.00	51.14	56.53		56.63	0.001107	1.43	337.35	140.00	0.24
EJE RIO	6940	FN	450.00	51.21	56.54		56.61	0.000609	1.24	398.57	140.00	0.19
EJE RIO	6920	FN	450.00	51.15	56.52		56.59	0.000650	1.26	392.03	140.00	0.19
EJE RIO	6900	FN	450.00	50.99	56.52		56.58	0.000458	1.14	435.43	140.00	0.16
EJE RIO	6880	FN	450.00	50.81	56.51		56.57	0.000405	1.14	443.57	140.00	0.16
EJE RIO	6860	FN	450.00	50.87	56.51		56.56	0.000386	1.13	452.30	140.00	0.15
EJE RIO	6840	FN	450.00	50.92	56.50		56.55	0.000366	1.10	462.66	140.00	0.15
EJE RIO	6820	FN	450.00	50.89	56.49		56.54	0.000367	1.06	467.71	140.00	0.15
EJE RIO	6800	FN	450.00	50.87	56.49		56.54	0.000367	1.06	467.68	140.00	0.15
EJE RIO	6780	FN	450.00	50.92	56.48		56.53	0.000360	1.08	466.11	140.00	0.15
EJE RIO	6760	FN	450.00	50.79	56.47		56.52	0.000385	1.10	456.87	140.11	0.15
EJE RIO	6740	FN	450.00	50.78	56.45		56.51	0.000463	1.15	436.78	140.00	0.17
EJE RIO	6720	FN	450.00	50.78	56.43		56.50	0.000567	1.27	402.46	139.99	0.18
EJE RIO	6700	FN	450.00	50.78	56.42		56.49	0.000560	1.28	402.33	139.85	0.18
EJE RIO	6680	FN	450.00	50.83	56.38		56.47	0.001011	1.48	342.92	139.90	0.23
EJE RIO	6660	FN	450.00	50.90	56.31		56.44	0.001610	1.73	295.61	140.00	0.29
EJE RIO	6640	FN	450.00	50.97	56.25		56.41	0.002010	1.84	276.55	140.00	0.32
EJE RIO	6620	FN	450.00	49.45	56.27		56.36	0.000880	1.45	347.29	139.17	0.22
EJE RIO	6600	FN	450.00	50.51	56.20		56.34	0.001533	1.70	296.15	140.42	0.28
EJE RIO	6580	FN	450.00	50.35	56.20		56.31	0.000875	1.46	342.04	140.00	0.22
EJE RIO	6560	FN	450.00	50.30	56.19		56.29	0.000837	1.44	344.93	140.00	0.21
EJE RIO	6540	FN	450.00	50.48	56.11		56.26	0.001683	1.78	282.21	140.00	0.30
EJE RIO	6520	FN	450.00	50.47	56.05		56.22	0.002071	1.91	263.85	140.00	0.33
EJE RIO	6500	FN	450.00	50.45	56.00		56.18	0.002094	1.93	261.27	140.00	0.33
EJE RIO	6480	FN	450.00	50.44	56.03		56.13	0.000743	1.43	354.68	140.00	0.20
EJE RIO	6460	FN	450.00	50.33	55.97		56.11	0.001405	1.72	294.94	140.00	0.27
EJE RIO	6440	FN	450.00	50.22	55.92		56.07	0.001647	1.80	282.19	140.00	0.29
EJE RIO	6420	FN	450.00	50.35	55.84		56.03	0.002514	2.03	249.79	140.13	0.36
EJE RIO	6400	FN	450.00	50.42	55.82		55.98	0.001880	1.86	273.10	139.99	0.31
EJE RIO	6380	FN	450.00	50.45	55.79		55.94	0.001835	1.79	280.61	140.00	0.30
EJE RIO	6360	FN	450.00	50.41	55.78		55.90	0.001396	1.67	302.90	140.00	0.27
EJE RIO	6340	FN	450.00	50.27	55.77		55.87	0.000830	1.46	349.08	139.54	0.21
EJE RIO	6320	FN	450.00	50.30	55.75		55.85	0.000907	1.51	341.15	140.00	0.22
EJE RIO	6300	FN	450.00	50.33	55.74		55.84	0.000788	1.48	350.37	139.91	0.21
EJE RIO	6280	FN	450.00	50.20	55.72		55.82	0.000783	1.50	349.36	139.70	0.21
EJE RIO	6260	FN	450.00	50.00	55.71		55.80	0.000699	1.44	364.16	139.86	0.20
EJE RIO	6240	FN	450.00	50.14	55.70		55.79	0.000689	1.43	371.99	139.80	0.20
EJE RIO	6220	FN	450.00	50.20	55.69		55.77	0.000681	1.41	377.34	139.40	0.20
EJE RIO	6200	FN	450.00	50.19	55.68		55.76	0.000661	1.39	381.14	140.00	0.19
EJE RIO	6180	FN	450.00	50.22	55.66		55.75	0.000668	1.39	379.70	140.00	0.19
EJE RIO	6160	FN	450.00	50.26	55.65		55.73	0.000697	1.40	376.25	139.90	0.20
EJE RIO	6140	FN	450.00	50.26	55.63		55.72	0.000736	1.42	371.27	139.80	0.20
EJE RIO	6120	FN	450.00	50.25	55.62		55.70	0.000730	1.41	371.87	140.00	0.20
EJE RIO	6100	FN	450.00	50.23	55.60		55.69	0.000698	1.38	377.28	139.90	0.20
EJE RIO	6080	FN	450.00	50.21	55.59		55.67	0.000688	1.37	379.41	139.80	0.20
EJE RIO	6060	FN	450.00	50.09	55.57		55.66	0.000720	1.41	371.06	140.02	0.20
EJE RIO	6040	FN	450.00	49.97	55.55		55.64	0.000772	1.46	360.83	139.97	0.21
EJE RIO	6020	FN	450.00	50.09	55.52		55.63	0.000944	1.56	338.68	139.96	0.23
EJE RIO	6000	FN	450.00	50.00	55.47		55.60	0.001391	1.72	303.24	139.96	0.27
EJE RIO	5980	FN	450.00	49.92	55.45		55.57	0.001201	1.68	313.05	140.01	0.26
EJE RIO	5960	FN	450.00	49.85	55.43		55.55	0.001126	1.65	317.86	140.27	0.25
EJE RIO	5940	FN	450.00	49.79	55.41		55.53	0.001116	1.64	318.26	140.01	0.25
EJE RIO	5920	FN	450.00	49.77	55.40		55.50	0.000917	1.52	340.20	140.00	0.23
EJE RIO	5900	FN	450.00	49.82	55.36		55.48	0.001306	1.65	309.96	139.78	0.27
EJE RIO	5880	FN	450.00	49.86	55.33		55.45	0.001399	1.66	306.09	139.97	0.27
EJE RIO	5860	FN	450.00	49.93	55.27		55.42	0.001910	1.79	282.85	140.00	0.31
EJE RIO	5840	FN	450.00	49.78	55.25		55.38	0.001590	1.71	298.47	139.97	0.29
EJE RIO	5820	FN	450.00	49.66	55.22		55.34	0.001586	1.68	301.69	139.96	0.28
EJE RIO	5800	FN	450.00	49.64	55.17		55.31	0.001904	1.79	283.59	139.94	0.31
EJE RIO	5780	FN	450.00	49.62	55.16		55.27	0.001010	1.54	334.60	139.89	0.23
EJE RIO	5760	FN	450.00	49.55	55.12		55.24	0.001565	1.67	298.53	140.00	0.29
EJE RIO	5740	FN	450.00	49.49	55.10		55.21	0.001198	1.56	323.20	140.00	0.25
EJE RIO	5720	FN	450.00	49.44	55.09		55.19	0.000898	1.44	353.29	140.00	0.21
EJE RIO	5700	FN	450.00	49.21	55.09		55.17	0.000590	1.32	393.59	140.00	0.18
EJE RIO	5680	FN	450.00	49.21	55.07		55.15	0.000708	1.40	374.04	140.00	0.19
EJE RIO	5660	FN	450.00	49.05	55.05		55.14	0.000826	1.47	358.40	140.00	0.21
EJE RIO	5640	FN	450.00	49.21	55.03		55.12	0.000798	1.47	361.03	140.00	0.20
EJE RIO	5620	FN	450.00	49.25	55.00		55.10	0.000947	1.54	345.07	140.00	0.22
EJE RIO	5600	FN	450.00	49.17	54.98		55.08	0.000961	1.58	340.44	140.00	0.23
EJE RIO	5580	FN	450.00	49.12	54.97		55.06	0.000877	1.52	351.93	139.90	0.21
EJE RIO	5560	FN	450.00	49.17	54.95		55.04	0.000909	1.54	347.96	140.07	0.21
EJE RIO	5540	FN	450.00	49.12	54.94		55.02	0.000838	1.46	362.23	140.00	0.21
EJE RIO	5520	FN	450.00	49.14	54.92		55.01	0.000811	1.43	366.80	140.00	0.20
EJE RIO	5500	FN	450.00	49.08	54.91		54.99	0.000759	1.40	374.58	140.00	0.20
EJE RIO	5480	FN	450.00	49.05	54.89		54.97	0.000878	1.43	360.55	140.00	0.21



Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
EJE RIO	5460	FN	450.00	49.16	54.85		54.95	0.001253	1.50	325.53	140.00	0.25
EJE RIO	5440	FN	450.00	49.27	54.83		54.93	0.001092	1.47	337.40	140.00	0.24
EJE RIO	5420	FN	450.00	49.35	54.81		54.90	0.000990	1.44	346.33	140.00	0.23
EJE RIO	5400	FN	450.00	49.03	54.81		54.88	0.000569	1.26	406.89	140.00	0.18
EJE RIO	5380	FN	450.00	49.00	54.76		54.86	0.001141	1.49	330.87	139.90	0.24
EJE RIO	5360	FN	450.00	49.04	54.75		54.84	0.000941	1.42	352.10	139.98	0.22
EJE RIO	5340	FN	450.00	49.06	54.73		54.82	0.000948	1.47	349.07	140.05	0.22
EJE RIO	5320	FN	450.00	49.06	54.71		54.80	0.000817	1.44	362.99	140.01	0.20
EJE RIO	5300	FN	450.00	49.06	54.70		54.78	0.000774	1.45	366.17	140.00	0.20
EJE RIO	5280	FN	450.00	49.05	54.66		54.76	0.001106	1.63	327.13	140.00	0.24
EJE RIO	5260	FN	450.00	49.02	54.63		54.74	0.001103	1.65	326.30	140.00	0.24
EJE RIO	5240	FN	450.00	48.98	54.62		54.72	0.000949	1.59	340.15	140.10	0.22
EJE RIO	5220	FN	450.00	48.98	54.60		54.70	0.000838	1.53	352.69	140.00	0.21
EJE RIO	5200	FN	450.00	49.02	54.59		54.68	0.000820	1.48	358.30	139.80	0.21
EJE RIO	5180	FN	450.00	48.89	54.57		54.66	0.000805	1.47	360.72	140.10	0.20
EJE RIO	5160	FN	450.00	48.71	54.56		54.65	0.000800	1.46	361.54	139.80	0.20
EJE RIO	5140	FN	450.00	48.74	54.54		54.63	0.000789	1.45	363.46	139.80	0.20
EJE RIO	5120	FN	450.00	48.92	54.53		54.62	0.000732	1.46	366.99	140.10	0.20
EJE RIO	5100	FN	450.00	48.99	54.52		54.60	0.000641	1.38	388.53	140.00	0.19
EJE RIO	5080	FN	450.00	48.97	54.51		54.59	0.000641	1.38	388.21	140.00	0.19
EJE RIO	5060	FN	450.00	48.94	54.49		54.57	0.000673	1.40	383.32	140.00	0.19
EJE RIO	5040	FN	450.00	48.94	54.48		54.56	0.000757	1.41	373.47	140.00	0.20
EJE RIO	5020	FN	450.00	48.95	54.47		54.54	0.000664	1.38	386.37	140.00	0.19
EJE RIO	5000	FN	450.00	48.98	54.43		54.53	0.001031	1.49	342.86	140.00	0.23
EJE RIO	4980	FN	450.00	49.02	54.36		54.50	0.001787	1.74	287.55	140.00	0.30
EJE RIO	4960	FN	450.00	49.00	54.29		54.45	0.002347	1.90	263.25	139.90	0.34
EJE RIO	4940	FN	450.00	48.92	54.21		54.40	0.003015	2.05	245.05	139.07	0.37
EJE RIO	4920	FN	450.00	48.73	54.19		54.34	0.001983	1.88	279.38	139.70	0.29
EJE RIO	4900	FN	450.00	48.77	54.18		54.29	0.001265	1.68	319.53	139.90	0.25
EJE RIO	4880	FN	450.00	48.69	54.17		54.27	0.000966	1.65	338.05	139.90	0.23
EJE RIO	4860	FN	450.00	48.63	54.15		54.25	0.000931	1.62	342.10	139.80	0.23
EJE RIO	4840	FN	450.00	48.57	54.13		54.23	0.000916	1.62	343.27	139.90	0.23
EJE RIO	4820	FN	450.00	48.57	54.11		54.21	0.000973	1.66	335.77	140.00	0.23
EJE RIO	4800	FN	450.00	48.51	54.08		54.19	0.001009	1.69	331.15	140.00	0.23
EJE RIO	4780	FN	450.00	48.56	54.06		54.17	0.001088	1.71	325.38	140.00	0.24
EJE RIO	4760	FN	450.00	48.59	54.03		54.15	0.001140	1.73	320.41	140.00	0.24
EJE RIO	4740	FN	450.00	48.55	54.00		54.12	0.001306	1.80	307.50	140.00	0.26
EJE RIO	4720	FN	450.00	48.32	53.95		54.09	0.001708	1.94	284.66	140.00	0.29
EJE RIO	4700	FN	450.00	48.27	53.92		54.06	0.001367	1.83	302.52	140.00	0.26
EJE RIO	4680	FN	450.00	48.43	53.90		54.03	0.001314	1.81	305.52	140.00	0.26
EJE RIO	4660	FN	450.00	48.58	53.86		54.00	0.001405	1.87	297.10	140.00	0.27
EJE RIO	4640	FN	450.00	48.75	53.82		53.97	0.001675	1.94	284.73	140.00	0.29
EJE RIO	4620	FN	450.00	48.74	53.77		53.93	0.002203	2.05	265.84	140.00	0.33
EJE RIO	4600	FN	450.00	48.41	53.76		53.89	0.001205	1.81	308.74	140.00	0.25
EJE RIO	4580	FN	450.00	48.37	53.73		53.87	0.001256	1.80	307.03	140.00	0.25
EJE RIO	4560	FN	450.00	48.35	53.70		53.84	0.001223	1.83	306.08	140.00	0.26
EJE RIO	4540	FN	450.00	48.33	53.68		53.82	0.001200	1.83	306.64	140.00	0.26
EJE RIO	4520	FN	450.00	48.32	53.66		53.79	0.001200	1.83	307.50	140.00	0.26
EJE RIO	4500	FN	450.00	48.30	53.64		53.77	0.001127	1.79	314.03	140.00	0.25
EJE RIO	4480	FN	450.00	48.31	53.62		53.74	0.001042	1.71	325.29	140.00	0.24
EJE RIO	4460	FN	450.00	48.43	53.61		53.72	0.000990	1.65	333.59	140.00	0.23
EJE RIO	4440	FN	450.00	48.48	53.60		53.70	0.000934	1.59	341.82	140.00	0.23
EJE RIO	4420	FN	450.00	48.40	53.58		53.68	0.000859	1.53	352.26	140.00	0.22
EJE RIO	4400	FN	450.00	48.27	53.57		53.66	0.000852	1.51	354.50	140.00	0.22
EJE RIO	4380	FN	450.00	48.08	53.55		53.64	0.000795	1.47	362.33	140.00	0.21
EJE RIO	4360	FN	450.00	48.11	53.54		53.62	0.000739	1.44	370.11	140.00	0.20
EJE RIO	4340	FN	450.00	48.06	53.53		53.61	0.000726	1.44	371.77	140.00	0.20
EJE RIO	4320	FN	450.00	48.03	53.51		53.59	0.000719	1.43	373.98	140.00	0.20
EJE RIO	4300	FN	450.00	48.02	53.50		53.58	0.000700	1.42	376.68	140.00	0.20
EJE RIO	4280	FN	450.00	48.05	53.49		53.57	0.000696	1.40	379.25	140.00	0.20
EJE RIO	4260	FN	450.00	48.13	53.47		53.55	0.000696	1.38	381.88	140.00	0.19
EJE RIO	4240	FN	450.00	48.11	53.45		53.54	0.000780	1.43	369.25	140.00	0.21
EJE RIO	4220	FN	450.00	48.02	53.44		53.52	0.000727	1.43	375.17	140.00	0.20
EJE RIO	4200	FN	450.00	48.09	53.41		53.50	0.000892	1.48	353.84	140.00	0.22
EJE RIO	4180	FN	450.00	48.18	53.40		53.48	0.001003	1.43	349.01	140.00	0.23
EJE RIO	4160	FN	450.00	48.23	53.37		53.46	0.001179	1.46	335.36	140.00	0.25
EJE RIO	4140	FN	450.00	48.28	53.35		53.44	0.000924	1.36	361.11	140.00	0.22
EJE RIO	4120	FN	450.00	48.10	53.35		53.42	0.000656	1.21	403.53	140.00	0.19
EJE RIO	4100	FN	450.00	47.97	53.35		53.40	0.000543	1.10	435.37	140.00	0.17
EJE RIO	4080	FN	450.00	47.90	53.34		53.39	0.000481	1.01	461.63	140.00	0.16
EJE RIO	4060	FN	450.00	47.95	53.33		53.38	0.000434	0.94	486.82	140.00	0.15
EJE RIO	4040	FN	450.00	47.91	53.33		53.37	0.000370	0.89	513.62	140.00	0.14
EJE RIO	4020	FN	450.00	47.67	53.32		53.36	0.000334	0.87	529.17	140.00	0.14
EJE RIO	4000	FN	450.00	47.37	53.32		53.36	0.000280	0.82	556.63	140.00	0.13
EJE RIO	3980	FN	450.00	47.39	53.32		53.35	0.000232	0.79	582.97	140.00	0.12
EJE RIO	3960	FN	450.00	47.59	53.31		53.34	0.000236	0.79	580.38	140.00	0.12
EJE RIO	3940	FN	450.00	47.61	53.31		53.34	0.000235	0.78	580.96	140.00	0.12



Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m <sup>3</sup> /s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m <sup>2</sup> )	(m)	
EJE RIO	3920	FN	450.00	47.09	53.30		53.33	0.000210	0.75	598.03	140.00	0.11
EJE RIO	3900	FN	450.00	47.13	53.30		53.33	0.000221	0.77	593.01	140.00	0.11
EJE RIO	3880	FN	450.00	47.29	53.30		53.33	0.000219	0.75	590.73	140.00	0.11
EJE RIO	3860	FN	450.00	47.46	53.29		53.32	0.000232	0.77	587.99	140.00	0.12
EJE RIO	3840	FN	450.00	47.69	53.28		53.32	0.000199	0.70	585.31	140.00	0.11
EJE RIO	3820	FN	450.00	47.92	53.27		53.31	0.000235	0.71	549.32	140.00	0.11
EJE RIO	3800	FN	450.00	48.16	53.26		53.31	0.000340	0.78	493.58	140.00	0.13
EJE RIO	3780	FN	450.00	47.93	53.24		53.30	0.000500	0.90	445.37	140.00	0.16
EJE RIO	3760	FN	450.00	47.60	53.22		53.28	0.000537	1.17	424.63	139.90	0.17
EJE RIO	3740	FN	450.00	47.53	53.20		53.27	0.000588	1.24	408.83	139.70	0.18
EJE RIO	3720	FN	450.00	47.61	53.18		53.26	0.000710	1.36	377.88	137.74	0.20
EJE RIO	3700	FN	450.00	47.52	53.14		53.24	0.001049	1.54	337.66	139.80	0.24
EJE RIO	3680	FN	450.00	47.55	53.11		53.22	0.000970	1.56	339.73	139.90	0.23
EJE RIO	3660	FN	450.00	47.72	53.06		53.19	0.001459	1.74	303.03	139.90	0.27
EJE RIO	3640	FN	450.00	47.41	53.05		53.16	0.000975	1.62	332.76	139.90	0.23
EJE RIO	3620	FN	450.00	47.39	53.04		53.14	0.000864	1.51	347.71	139.90	0.22
EJE RIO	3600	FN	450.00	47.37	53.03		53.12	0.000719	1.39	369.76	139.90	0.20
EJE RIO	3580	FN	450.00	47.29	53.02		53.11	0.000707	1.35	374.23	139.90	0.20
EJE RIO	3560	FN	450.00	47.29	53.01		53.09	0.000659	1.33	376.31	138.49	0.19
EJE RIO	3540	FN	450.00	47.29	52.98		53.07	0.000862	1.49	347.54	140.01	0.21
EJE RIO	3520	FN	450.00	47.29	52.96		53.06	0.000770	1.44	357.76	139.90	0.21
EJE RIO	3500	FN	450.00	47.37	52.95		53.04	0.000754	1.36	368.43	140.00	0.20
EJE RIO	3480	FN	450.00	47.23	52.91		53.02	0.000938	1.53	335.54	140.00	0.23
EJE RIO	3460	FN	450.00	47.16	52.90		53.00	0.000908	1.51	338.49	140.00	0.23
EJE RIO	3440	FN	450.00	47.09	52.89		52.98	0.000848	1.45	350.20	140.00	0.22
EJE RIO	3420	FN	450.00	47.11	52.84		52.96	0.001041	1.58	322.27	140.00	0.24
EJE RIO	3400	FN	450.00	47.41	52.85		52.93	0.000755	1.29	375.88	140.00	0.20
EJE RIO	3380	FN	450.00	47.20	52.81		52.91	0.001100	1.48	332.55	140.00	0.24
EJE RIO	3360	FN	450.00	47.08	52.78		52.89	0.001129	1.49	329.78	140.00	0.24
EJE RIO	3340	FN	450.00	47.07	52.77		52.86	0.000916	1.39	352.56	140.00	0.22
EJE RIO	3320	FN	450.00	47.07	52.75		52.85	0.000944	1.39	350.78	140.00	0.23
EJE RIO	3300	FN	450.00	47.07	52.73		52.83	0.000915	1.40	350.39	140.00	0.22
EJE RIO	3280	FN	450.00	46.93	52.72		52.81	0.000788	1.35	364.30	140.00	0.21
EJE RIO	3260	FN	450.00	46.95	52.72		52.79	0.000624	1.25	390.71	140.00	0.19
EJE RIO	3240	FN	450.00	46.98	52.70		52.78	0.000639	1.28	382.91	140.00	0.19
EJE RIO	3220	FN	450.00	47.11	52.64		52.76	0.001190	1.55	318.25	140.00	0.25
EJE RIO	3200	FN	450.00	47.02	52.51		52.71	0.002976	2.02	241.06	140.00	0.38
EJE RIO	3180	FN	450.00	47.20	52.46		52.66	0.002539	1.98	242.98	136.39	0.36
EJE RIO	3160	FN	450.00	47.28	52.47		52.60	0.001258	1.63	292.03	125.91	0.26
EJE RIO	3140	FN	450.00	47.06	52.41		52.57	0.001751	1.79	266.05	126.88	0.30
EJE RIO	3120	FN	450.00	46.84	52.41		52.53	0.001132	1.59	300.51	140.00	0.25
EJE RIO	3100	FN	450.00	47.17	52.31		52.50	0.002179	1.96	244.29	116.95	0.34
EJE RIO	3080	FN	450.00	46.08	52.34		52.45	0.000847	1.49	321.71	140.00	0.22
EJE RIO	3060	FN	450.00	46.61	52.29		52.42	0.001238	1.67	288.55	140.00	0.26
EJE RIO	3040	FN	450.00	47.15	52.09		52.37	0.003945	2.37	200.21	114.95	0.44
EJE RIO	3020	FN	450.00	47.37	52.06		52.29	0.002748	2.18	217.77	105.24	0.38
EJE RIO	3000	FN	450.00	47.75	52.02		52.24	0.002332	2.10	226.35	94.13	0.35
EJE RIO	2980	FN	450.00	47.33	51.74	50.71	52.15	0.006149	2.82	161.10	70.85	0.54
EJE RIO	2962		Bridge									
EJE RIO	2960	FN	450.00	50.09	51.82	52.43	53.44	0.064703	5.64	80.19	64.75	1.57
EJE RIO	2940	FN	450.00	48.20	51.85	51.55	52.64	0.015799	3.95	114.11	52.41	0.84
EJE RIO	2920	FN	450.00	46.99	52.23		52.38	0.001531	1.76	275.07	140.00	0.29
EJE RIO	2900	FN	450.00	46.91	52.17		52.34	0.001865	1.86	261.62	140.00	0.31
EJE RIO	2880	FN	450.00	46.90	52.17		52.30	0.001278	1.66	294.38	140.00	0.26
EJE RIO	2860	FN	450.00	46.72	52.14		52.28	0.001234	1.65	298.66	140.00	0.26
EJE RIO	2840	FN	450.00	46.73	52.12		52.25	0.001272	1.68	297.04	140.00	0.26
EJE RIO	2820	FN	450.00	47.05	52.05		52.22	0.001934	1.89	264.49	140.00	0.32
EJE RIO	2800	FN	450.00	46.87	52.03		52.18	0.001394	1.72	291.66	140.00	0.27
EJE RIO	2780	FN	450.00	46.73	52.02		52.15	0.001174	1.64	306.51	140.00	0.25
EJE RIO	2760	FN	450.00	46.63	52.00		52.12	0.001170	1.64	307.42	140.00	0.25
EJE RIO	2740	FN	450.00	46.61	51.97		52.10	0.001120	1.62	311.86	140.00	0.25
EJE RIO	2720	FN	450.00	46.75	51.95		52.07	0.001244	1.65	305.39	140.00	0.26
EJE RIO	2700	FN	450.00	46.87	51.91		52.05	0.001423	1.68	298.44	140.00	0.28
EJE RIO	2680	FN	450.00	46.77	51.90		52.02	0.001142	1.56	321.40	140.00	0.25
EJE RIO	2660	FN	450.00	46.66	51.88		51.99	0.001099	1.52	328.14	140.00	0.24
EJE RIO	2640	FN	450.00	46.60	51.87		51.97	0.001093	1.48	333.91	140.00	0.24
EJE RIO	2620	FN	450.00	46.56	51.85		51.95	0.001047	1.46	340.01	140.00	0.24
EJE RIO	2600	FN	450.00	46.66	51.83		51.93	0.001039	1.45	341.86	140.00	0.24
EJE RIO	2580	FN	450.00	46.75	51.81		51.90	0.001053	1.44	343.45	140.00	0.24
EJE RIO	2560	FN	450.00	46.77	51.79		51.88	0.001063	1.42	344.62	139.92	0.24
EJE RIO	2540	FN	450.00	46.73	51.76		51.86	0.001135	1.45	338.85	139.90	0.24
EJE RIO	2520	FN	450.00	46.67	51.74		51.84	0.001173	1.46	335.86	139.80	0.25
EJE RIO	2500	FN	450.00	46.61	51.70		51.81	0.001485	1.53	317.20	139.87	0.27
EJE RIO	2480	FN	450.00	46.55	51.68		51.78	0.001305	1.46	331.11	140.06	0.26
EJE RIO	2460	FN	450.00	46.98	51.52		51.72	0.004726	1.99	228.22	139.97	0.45
EJE RIO	2440	FN	450.00	46.71	51.55		51.65	0.001292	1.44	332.69	140.05	0.26
EJE RIO	2420	FN	450.00	46.68	51.53		51.62	0.001242	1.45	334.75	140.00	0.25



Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
EJE RIO	2400	FN	450.00	46.68	51.50		51.60	0.001231	1.47	333.61	140.01	0.25
EJE RIO	2380	FN	450.00	46.74	51.48		51.57	0.001096	1.43	344.08	139.99	0.24
EJE RIO	2360	FN	450.00	46.66	51.46		51.55	0.001066	1.41	347.18	139.98	0.24
EJE RIO	2340	FN	450.00	46.59	51.45		51.53	0.000833	1.32	372.65	140.02	0.21
EJE RIO	2320	FN	450.00	46.73	51.43		51.51	0.000861	1.34	368.03	140.00	0.22
EJE RIO	2300	FN	450.00	46.62	51.40		51.49	0.001105	1.44	343.06	140.00	0.24
EJE RIO	2280	FN	450.00	46.46	51.37		51.47	0.001061	1.51	336.17	140.00	0.24
EJE RIO	2260	FN	450.00	46.57	51.36		51.45	0.000844	1.36	365.05	140.00	0.22
EJE RIO	2240	FN	450.00	46.58	51.34		51.43	0.000952	1.40	352.06	140.00	0.23
EJE RIO	2220	FN	450.00	46.50	51.32		51.41	0.000947	1.40	351.23	140.00	0.23
EJE RIO	2200	FN	450.00	46.50	51.29		51.39	0.001001	1.42	346.36	140.00	0.23
EJE RIO	2180	FN	450.00	46.45	51.27		51.37	0.001011	1.41	346.45	140.00	0.23
EJE RIO	2160	FN	450.00	46.38	51.26		51.35	0.000994	1.39	350.02	140.00	0.23
EJE RIO	2140	FN	450.00	46.39	51.23		51.33	0.001095	1.44	339.18	140.00	0.24
EJE RIO	2120	FN	450.00	46.22	51.21		51.30	0.000926	1.39	353.37	140.00	0.22
EJE RIO	2100	FN	450.00	46.22	51.20		51.28	0.000834	1.35	364.14	140.00	0.21
EJE RIO	2080	FN	450.00	46.32	51.17		51.27	0.000970	1.40	349.84	140.00	0.23
EJE RIO	2060	FN	450.00	46.31	51.15		51.24	0.001129	1.45	337.62	140.00	0.25
EJE RIO	2040	FN	450.00	46.29	51.14		51.22	0.000738	1.28	384.40	140.00	0.20
EJE RIO	2020	FN	450.00	46.10	51.13		51.20	0.000708	1.23	392.95	140.00	0.20
EJE RIO	2000	FN	450.00	46.17	51.12		51.19	0.000739	1.22	392.98	140.00	0.20
EJE RIO	1980	FN	450.00	46.31	51.10		51.17	0.000757	1.21	392.95	140.00	0.20
EJE RIO	1960	FN	450.00	46.46	51.06		51.15	0.001119	1.41	344.42	139.94	0.24
EJE RIO	1940	FN	450.00	46.21	51.03		51.13	0.001069	1.46	340.73	139.70	0.24
EJE RIO	1920	FN	450.00	46.07	51.03		51.10	0.000819	1.21	389.61	140.00	0.21
EJE RIO	1900	FN	450.00	46.11	51.03		51.09	0.000514	1.06	446.36	140.00	0.17
EJE RIO	1880	FN	450.00	46.04	51.03		51.08	0.000414	0.99	477.12	140.00	0.15
EJE RIO	1860	FN	450.00	45.38	51.02		51.07	0.000335	0.94	506.83	140.00	0.14
EJE RIO	1840	FN	450.00	45.81	51.02		51.06	0.000361	0.96	494.69	140.00	0.14
EJE RIO	1820	FN	450.00	46.22	51.01		51.05	0.000364	0.95	493.15	140.00	0.14
EJE RIO	1800	FN	450.00	46.18	51.00		51.04	0.000327	0.91	508.20	140.00	0.14
EJE RIO	1780	FN	450.00	46.14	51.00		51.04	0.000288	0.86	528.71	139.88	0.13
EJE RIO	1760	FN	450.00	45.94	50.99		51.03	0.000267	0.84	537.91	140.00	0.12
EJE RIO	1740	FN	450.00	45.99	50.99		51.03	0.000288	0.87	520.58	138.32	0.13
EJE RIO	1720	FN	450.00	45.89	50.97		51.02	0.000330	0.93	493.21	136.15	0.14
EJE RIO	1700	FN	450.00	45.31	50.96		51.01	0.000410	1.03	450.12	133.82	0.15
EJE RIO	1680	FN	450.00	45.48	50.93		51.00	0.000632	1.25	385.46	131.38	0.19
EJE RIO	1660	FN	450.00	45.76	50.86		50.98	0.001200	1.57	302.66	112.56	0.26
EJE RIO	1640	FN	450.00	45.81	50.84		50.96	0.001116	1.60	303.57	104.03	0.25
EJE RIO	1620	FN	450.00	45.91	50.80		50.93	0.001286	1.68	290.45	105.58	0.26
EJE RIO	1600	FN	450.00	46.07	50.74		50.90	0.001689	1.85	267.85	113.61	0.30
EJE RIO	1580	FN	450.00	46.26	50.43		50.81	0.008481	2.89	168.91	113.69	0.62
EJE RIO	1560	FN	450.00	46.02	49.97	49.97	50.58	0.013469	3.61	138.40	107.96	0.78
EJE RIO	1540	FN	450.00	46.05	48.25	48.78	49.97	0.074095	5.77	77.40	69.57	1.66
EJE RIO	1520	FN	450.00	45.80	49.00	47.67	49.18	0.002208	1.66	247.66	109.52	0.33
EJE RIO	1500	FN	450.00	45.69	49.00		49.13	0.001236	1.24	308.20	140.00	0.24
EJE RIO	1480	FN	450.00	45.72	49.00		49.11	0.001033	1.16	327.60	140.00	0.22
EJE RIO	1460	FN	450.00	45.75	48.99		49.08	0.000928	1.11	346.82	139.90	0.21
EJE RIO	1440	FN	450.00	45.75	48.98		49.06	0.000729	1.00	378.31	140.00	0.19
EJE RIO	1420	FN	450.00	45.75	48.97		49.05	0.000657	0.96	389.91	140.00	0.18
EJE RIO	1400	FN	450.00	45.75	48.97		49.03	0.000593	0.93	403.95	140.00	0.17
EJE RIO	1380	FN	450.00	45.70	48.96		49.02	0.000509	0.88	424.70	140.00	0.16
EJE RIO	1360	FN	450.00	45.71	48.95		49.01	0.000455	0.84	438.32	140.00	0.15
EJE RIO	1340	FN	450.00	45.24	48.94		49.00	0.000424	0.83	447.71	140.00	0.15
EJE RIO	1320	FN	450.00	45.05	48.94		48.99	0.000407	0.82	452.19	140.00	0.15
EJE RIO	1300	FN	450.00	45.07	48.93		48.98	0.000397	0.80	454.51	140.00	0.14
EJE RIO	1280	FN	450.00	45.13	48.92		48.97	0.000436	0.84	442.76	140.00	0.15
EJE RIO	1260	FN	450.00	45.58	48.90		48.96	0.000504	0.86	422.36	140.00	0.16
EJE RIO	1240	FN	450.00	45.77	48.89		48.95	0.000540	0.88	413.44	140.00	0.16
EJE RIO	1220	FN	450.00	45.91	48.88		48.94	0.000575	0.90	407.07	140.00	0.17
EJE RIO	1200	FN	450.00	44.10	48.87		48.93	0.000517	0.92	426.75	140.00	0.16
EJE RIO	1180	FN	450.00	44.59	48.86		48.92	0.000539	0.99	423.50	140.00	0.17
EJE RIO	1160	FN	450.00	43.96	48.83		48.90	0.000627	1.12	397.98	140.00	0.18
EJE RIO	1140	FN	450.00	43.52	48.83		48.89	0.000513	1.07	423.65	139.98	0.17
EJE RIO	1120	FN	450.00	43.98	48.81		48.88	0.000577	1.07	408.50	139.99	0.18
EJE RIO	1100	FN	450.00	43.66	48.81		48.86	0.000380	0.96	468.78	140.00	0.15
EJE RIO	1080	FN	450.00	43.59	48.81		48.85	0.000351	0.93	476.24	140.00	0.14
EJE RIO	1060	FN	450.00	43.56	48.80		48.85	0.000307	0.95	491.92	140.00	0.14
EJE RIO	1040	FN	450.00	43.46	48.80		48.84	0.000262	0.88	515.59	140.00	0.13
EJE RIO	1020	FN	450.00	43.34	48.80		48.83	0.000201	0.77	565.08	140.00	0.11
EJE RIO	1000	FN	450.00	43.24	48.80		48.83	0.000121	0.61	658.86	140.00	0.09
EJE RIO	980	FN	450.00	43.31	48.80		48.82	0.000100	0.55	697.79	140.00	0.08
EJE RIO	960	FN	450.00	43.38	48.80		48.82	0.000100	0.55	698.10	140.00	0.08
EJE RIO	940	FN	450.00	43.42	48.80		48.82	0.000101	0.55	693.86	140.00	0.08
EJE RIO	920	FN	450.00	43.36	48.80		48.82	0.000102	0.55	694.35	140.00	0.08
EJE RIO	900	FN	450.00	43.36	48.79		48.82	0.000109	0.57	683.50	140.00	0.08
EJE RIO	880	FN	450.00	43.37	48.79		48.81	0.000125	0.61	659.22	140.00	0.09



Reach	River Sta	Profile	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
			(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
EJE RIO	860	FN	450.00	43.39	48.78		48.81	0.000143	0.64	633.99	140.00	0.09
EJE RIO	840	FN	450.00	43.41	48.78		48.81	0.000171	0.71	595.01	140.00	0.10
EJE RIO	820	FN	450.00	43.43	48.77		48.80	0.000212	0.80	552.46	140.00	0.11
EJE RIO	800	FN	450.00	43.45	48.75		48.80	0.000294	0.94	503.65	140.00	0.13
EJE RIO	780	FN	450.00	43.49	48.73		48.79	0.000465	1.18	434.93	140.00	0.17
EJE RIO	760	FN	450.00	43.46	48.70		48.78	0.000623	1.32	380.74	140.00	0.19
EJE RIO	740	FN	450.00	43.30	48.68		48.76	0.000701	1.35	356.29	129.59	0.20
EJE RIO	720	FN	450.00	43.16	48.64		48.74	0.000983	1.52	318.98	125.41	0.23
EJE RIO	700	FN	450.00	43.73	48.46		48.70	0.003617	2.24	212.42	117.52	0.42
EJE RIO	680	FN	450.00	43.61	48.49		48.62	0.001279	1.66	295.15	131.96	0.26
EJE RIO	660	FN	450.00	43.54	48.31		48.57	0.003993	2.38	205.26	123.23	0.44
EJE RIO	640	FN	450.00	43.54	48.34		48.49	0.001669	1.81	278.07	140.00	0.30
EJE RIO	620	FN	450.00	43.32	48.30		48.45	0.001681	1.84	277.83	140.00	0.30
EJE RIO	600	FN	450.00	43.25	48.29		48.42	0.001248	1.72	301.43	139.99	0.26
EJE RIO	580	FN	450.00	43.28	48.27		48.39	0.001236	1.69	307.45	140.00	0.26
EJE RIO	560	FN	450.00	43.22	48.24		48.37	0.001275	1.72	307.15	140.00	0.26
EJE RIO	540	FN	450.00	43.18	48.21		48.34	0.001288	1.74	306.40	140.00	0.26
EJE RIO	520	FN	450.00	43.14	48.17		48.31	0.001366	1.82	297.61	140.00	0.27
EJE RIO	500	FN	450.00	43.14	48.14		48.29	0.001363	1.84	296.47	140.00	0.27
EJE RIO	480	FN	450.00	43.06	48.11		48.26	0.001371	1.85	294.09	140.00	0.27
EJE RIO	460	FN	450.00	42.82	48.08		48.23	0.001489	1.88	287.80	140.00	0.28
EJE RIO	440	FN	450.00	42.99	48.04		48.20	0.001606	1.93	280.91	140.00	0.29
EJE RIO	420	FN	450.00	43.13	47.99		48.16	0.001757	2.01	270.09	140.00	0.30
EJE RIO	400	FN	450.00	43.21	47.93		48.12	0.002090	2.12	254.31	139.80	0.33
EJE RIO	380	FN	450.00	43.31	47.87		48.08	0.002192	2.17	244.48	139.29	0.34
EJE RIO	360	FN	450.00	43.18	47.83		48.04	0.001992	2.12	239.95	110.48	0.33
EJE RIO	340	FN	450.00	43.11	47.80		47.99	0.001845	2.05	243.79	100.83	0.32
EJE RIO	320	FN	450.00	43.02	47.78		47.95	0.001733	1.93	264.27	128.03	0.30
EJE RIO	300	FN	450.00	42.80	47.77		47.91	0.001534	1.78	291.79	136.78	0.28
EJE RIO	280	FN	450.00	43.37	47.66		47.86	0.002830	2.13	237.87	124.23	0.37
EJE RIO	260	FN	450.00	43.48	47.58		47.80	0.003094	2.17	225.68	111.10	0.39
EJE RIO	240	FN	450.00	43.11	47.57		47.74	0.001841	1.91	256.39	99.79	0.31
EJE RIO	220	FN	450.00	43.51	47.42		47.68	0.003749	2.35	205.55	93.10	0.43
EJE RIO	200	FN	450.00	42.66	47.39		47.60	0.002530	2.16	228.74	93.53	0.36
EJE RIO	180	FN	450.00	42.65	47.29		47.54	0.003428	2.34	209.88	93.54	0.42
EJE RIO	160	FN	450.00	43.56	47.14		47.45	0.005269	2.55	185.94	92.73	0.50
EJE RIO	140	FN	450.00	42.74	47.15		47.34	0.002634	2.04	233.40	96.28	0.36
EJE RIO	120	FN	450.00	42.56	47.09		47.29	0.002633	2.07	233.12	96.16	0.36
EJE RIO	100	FN	450.00	43.15	46.85		47.20	0.005863	2.70	177.01	86.68	0.52
EJE RIO	80	FN	450.00	42.81	46.81		47.09	0.003434	2.39	200.05	79.60	0.42
EJE RIO	60	FN	450.00	42.82	46.68		47.01	0.004216	2.59	184.36	88.35	0.45
EJE RIO	40	FN	450.00	42.94	46.68		46.90	0.002929	2.13	223.51	95.34	0.38
EJE RIO	20	FN	450.00	43.13	46.66		46.84	0.002617	1.84	244.55	96.13	0.36
EJE RIO	0	FN	450.00	42.81	46.66	44.80	46.78	0.001400	1.45	300.49	97.43	0.26

Fuente: Elaboración propia, HEC-RAS