

HEC-RAS Plan: Plan 01 River: QUEBRADA 3 Reach: QUEBRADA 3 Profile: PF 1

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
QUEBRADA 3	1230.82	PF 1	11.07	9.01	9.93	9.93	10.10	0.033119	1.79	6.18	20.54	1.04
QUEBRADA 3	1220	PF 1	11.07	9.00	9.63	9.63	9.81	0.029061	1.91	5.81	15.93	1.01
QUEBRADA 3	1200	PF 1	11.07	9.66	10.44	10.44	10.62	0.028862	1.87	5.92	16.76	1.01
QUEBRADA 3	1180	PF 1	11.07	11.20	12.13	12.13	12.22	0.041645	1.29	8.56	55.86	1.05
QUEBRADA 3	1160	PF 1	11.07	10.16	10.98	11.06	11.30	0.048494	2.49	4.45	11.77	1.29
QUEBRADA 3	1140	PF 1	11.07	10.25	11.36	11.36	11.58	0.027479	2.09	5.30	11.95	1.00
QUEBRADA 3	1120	PF 1	11.07	10.00	10.95	10.95	11.26	0.026222	2.47	4.49	7.28	1.00
QUEBRADA 3	1100	PF 1	11.07	10.70	11.31	11.31	11.47	0.030598	1.76	6.28	20.33	1.01
QUEBRADA 3	1080	PF 1	11.07	11.39	12.03	12.03	12.18	0.031029	1.72	6.45	22.05	1.01
QUEBRADA 3	1060	PF 1	11.07	10.74	11.45	11.45	11.65	0.028249	2.00	5.53	13.82	1.01
QUEBRADA 3	1040	PF 1	11.07	11.00	11.71	11.71	11.92	0.029019	2.00	5.54	13.75	1.00
QUEBRADA 3	1020	PF 1	11.07	11.00	11.41	11.41	11.58	0.028699	1.84	6.03	17.62	1.00
QUEBRADA 3	1000	PF 1	11.07	11.97	12.46	12.46	12.60	0.031798	1.66	6.69	24.66	1.02
QUEBRADA 3	980	PF 1	11.07	12.00	12.70	12.70	12.84	0.032017	1.65	6.73	25.13	1.02
QUEBRADA 3	960	PF 1	11.07	12.99	13.40	13.40	13.58	0.028909	1.84	6.03	17.70	1.01
QUEBRADA 3	940	PF 1	11.07	13.01	13.82	13.82	13.99	0.029206	1.82	6.07	18.16	1.01
QUEBRADA 3	920	PF 1	11.07	13.00	13.65	13.65	13.85	0.028562	1.95	5.69	15.09	1.01
QUEBRADA 3	900	PF 1	11.07	13.96	14.45	14.45	14.62	0.030221	1.79	6.18	19.27	1.01
QUEBRADA 3	880	PF 1	11.07	13.94	14.29	14.29	14.44	0.030753	1.70	6.53	22.57	1.01
QUEBRADA 3	860	PF 1	11.07	14.00	14.65	14.65	14.85	0.028075	1.97	5.62	14.50	1.01
QUEBRADA 3	840	PF 1	11.07	15.00	15.54	15.54	15.75	0.027274	2.04	5.43	12.95	1.01
QUEBRADA 3	820	PF 1	11.07	14.63	15.45	15.45	15.63	0.028927	1.88	5.90	16.42	1.00
QUEBRADA 3	800	PF 1	11.07	15.92	16.41	16.41	16.60	0.028248	1.93	5.74	15.36	1.01
QUEBRADA 3	780	PF 1	11.07	16.39	16.95	16.95	17.10	0.033130	1.73	6.41	22.89	1.04
QUEBRADA 3	760	PF 1	11.07	16.51	17.12	17.12	17.25	0.032025	1.57	7.03	28.13	1.01
QUEBRADA 3	740	PF 1	11.07	17.20	17.90	17.90	18.07	0.029996	1.83	6.07	18.35	1.01
QUEBRADA 3	720	PF 1	11.07	17.59	18.28	18.28	18.45	0.028952	1.84	6.01	17.53	1.00
QUEBRADA 3	700	PF 1	11.07	17.77	18.41	18.41	18.60	0.028606	1.93	5.73	15.44	1.01
QUEBRADA 3	680	PF 1	11.07	18.18	19.04	19.04	19.20	0.029686	1.78	6.22	19.51	1.01
QUEBRADA 3	660	PF 1	11.07	18.89	19.41	19.41	19.57	0.030211	1.76	6.29	20.22	1.01
QUEBRADA 3	640	PF 1	11.07	19.82	20.66	20.66	20.83	0.029711	1.85	5.98	17.34	1.01
QUEBRADA 3	620	PF 1	11.07	21.00	21.39	21.39	21.54	0.028888	1.76	6.29	19.70	0.99
QUEBRADA 3	600	PF 1	11.07	20.90	21.28	21.28	21.41	0.031047	1.62	6.84	25.69	1.00
QUEBRADA 3	580	PF 1	11.07	21.90	22.20	22.20	22.31	0.034779	1.42	7.79	38.77	1.01
QUEBRADA 3	560	PF 1	11.07	22.00	22.49	22.49	22.66	0.029148	1.83	6.05	18.01	1.01
QUEBRADA 3	540	PF 1	11.07	22.20	22.78	22.78	23.01	0.027569	2.10	5.27	11.81	1.00
QUEBRADA 3	520	PF 1	11.07	23.67	24.40	24.40	24.58	0.029330	1.89	5.85	16.46	1.01
QUEBRADA 3	500	PF 1	11.07	24.01	25.09	25.09	25.23	0.032905	1.67	6.63	24.37	1.02
QUEBRADA 3	480	PF 1	11.07	24.98	25.73	25.73	25.91	0.028764	1.91	5.79	15.91	1.01
QUEBRADA 3	460	PF 1	11.07	25.00	25.37	25.37	25.53	0.029602	1.75	6.31	20.28	1.00
QUEBRADA 3	440	PF 1	11.07	25.22	25.94	25.94	26.16	0.027109	2.09	5.29	12.11	1.01
QUEBRADA 3	420	PF 1	11.07	26.07	26.94	26.94	27.20	0.026250	2.24	4.94	9.87	1.01
QUEBRADA 3	400	PF 1	11.07	26.00	27.21	27.21	27.50	0.026292	2.37	4.67	8.25	1.01
QUEBRADA 3	380	PF 1	11.07	27.46	28.30	28.30	28.48	0.028329	1.89	5.84	15.95	1.00
QUEBRADA 3	360	PF 1	11.07	26.96	27.90	27.90	28.15	0.028728	2.24	4.94	9.84	1.01
QUEBRADA 3	340	PF 1	11.07	27.96	28.49	28.49	28.67	0.028191	1.90	5.83	15.96	1.00
QUEBRADA 3	320	PF 1	11.07	28.46	28.96	28.96	29.11	0.030275	1.70	6.52	22.27	1.00
QUEBRADA 3	300	PF 1	11.07	29.71	30.16	30.16	30.29	0.032956	1.57	7.05	28.96	1.02
QUEBRADA 3	280	PF 1	11.07	30.79	31.36	31.36	31.52	0.030108	1.77	6.24	19.96	1.01
QUEBRADA 3	260	PF 1	11.07	31.69	32.24	32.24	32.38	0.032469	1.65	6.72	25.33	1.02
QUEBRADA 3	240	PF 1	11.07	31.67	32.10	32.10	32.24	0.031833	1.64	6.75	25.26	1.01
QUEBRADA 3	220	PF 1	11.07	32.14	32.70	32.70	32.87	0.029115	1.86	5.96	17.27	1.01
QUEBRADA 3	200	PF 1	11.07	32.44	33.23	33.23	33.39	0.030073	1.74	6.35	20.61	1.00
QUEBRADA 3	180	PF 1	11.07	33.43	33.97	33.97	34.10	0.032699	1.62	6.84	26.68	1.02
QUEBRADA 3	160	PF 1	11.07	34.08	34.66	34.66	34.76	0.035370	1.40	7.94	40.99	1.01
QUEBRADA 3	140	PF 1	11.07	34.36	34.96	34.96	35.12	0.030312	1.77	6.24	19.97	1.01
QUEBRADA 3	120	PF 1	11.07	34.47	35.04	35.04	35.18	0.031671	1.65	6.70	24.54	1.01
QUEBRADA 3	100	PF 1	11.07	34.93	35.51	35.51	35.65	0.032985	1.66	6.66	24.61	1.02
QUEBRADA 3	80	PF 1	11.07	36.45	36.80	36.80	36.90	0.037088	1.35	8.21	46.00	1.02
QUEBRADA 3	60	PF 1	11.07	37.13	37.75	37.75	37.95	0.027455	2.00	5.55	13.77	1.00
QUEBRADA 3	40	PF 1	11.07	38.46	39.11	39.11	39.22	0.033880	1.48	7.48	33.78	1.00
QUEBRADA 3	20	PF 1	11.07	39.81	40.65	40.65	40.85	0.029420	1.98	5.58	14.44	1.02
QUEBRADA 3	0	PF 1	11.07	41.15	42.62	42.62	42.73	0.040104	1.48	7.46	37.29	1.06

HEC-RAS Plan: Plan 01 River: QUEBRADA 3A Reach: QUEBRADA 3A Profile: PF 1

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
QUEBRADA 3A	440.15	PF 1	6.12	32.58	33.02	33.02	33.13	0.034577	1.49	4.10	18.83	1.02
QUEBRADA 3A	440	PF 1	6.12	32.57	32.99	33.01	33.13	0.044264	1.63	3.75	18.12	1.15
QUEBRADA 3A	420	PF 1	6.12	33.34	33.73	33.73	33.84	0.033823	1.49	4.09	18.50	1.01
QUEBRADA 3A	400	PF 1	6.12	33.69	34.28	34.28	34.41	0.031102	1.60	3.81	14.49	1.00
QUEBRADA 3A	380	PF 1	6.12	33.98	34.47	34.47	34.57	0.034462	1.35	4.54	24.14	0.99
QUEBRADA 3A	360	PF 1	6.12	34.32	34.69	34.69	34.76	0.036807	1.16	5.26	36.83	0.98
QUEBRADA 3A	340	PF 1	6.12	34.87	35.14	35.14	35.19	0.041543	0.98	6.21	61.30	0.99
QUEBRADA 3A	320	PF 1	6.12	33.76	34.52	34.52	34.74	0.027664	2.11	2.90	6.54	1.01
QUEBRADA 3A	300	PF 1	6.12	35.03	35.58	35.58	35.70	0.032638	1.56	3.91	15.92	1.01
QUEBRADA 3A	280	PF 1	6.12	35.45	35.95	35.95	36.06	0.034076	1.46	4.18	19.46	1.01
QUEBRADA 3A	260	PF 1	6.12	36.10	36.51	36.51	36.59	0.034713	1.24	4.91	29.71	0.98
QUEBRADA 3A	240	PF 1	6.12	36.53	36.82	36.82	36.90	0.037987	1.26	4.87	31.10	1.01
QUEBRADA 3A	220	PF 1	6.12	36.56	36.96	36.96	37.08	0.032952	1.54	3.96	16.71	1.01
QUEBRADA 3A	200	PF 1	6.12	36.71	37.21	37.21	37.35	0.031849	1.63	3.75	14.13	1.01
QUEBRADA 3A	180	PF 1	6.12	37.84	38.09	38.09	38.19	0.035574	1.36	4.51	24.46	1.01
QUEBRADA 3A	160	PF 1	6.12	38.89	39.37	39.37	39.50	0.031530	1.63	3.76	14.19	1.01
QUEBRADA 3A	140	PF 1	6.12	40.07	40.60	40.60	40.72	0.032295	1.57	3.89	15.72	1.01
QUEBRADA 3A	120	PF 1	6.12	41.20	41.63	41.63	41.75	0.032188	1.58	3.87	15.48	1.01
QUEBRADA 3A	100	PF 1	6.12	42.40	42.96	42.96	43.10	0.031502	1.63	3.76	14.13	1.01
QUEBRADA 3A	80	PF 1	6.12	43.80	44.35	44.35	44.49	0.031933	1.64	3.73	14.02	1.01
QUEBRADA 3A	60	PF 1	6.12	44.96	45.44	45.44	45.57	0.032008	1.61	3.79	14.60	1.01
QUEBRADA 3A	40	PF 1	6.12	46.54	47.01	47.01	47.10	0.033825	1.34	4.57	24.36	0.99
QUEBRADA 3A	20	PF 1	6.12	47.36	47.82	47.82	47.94	0.032924	1.56	3.93	16.35	1.01
QUEBRADA 3A	0	PF 1	6.12	48.71	48.99	48.99	49.08	0.034716	1.36	4.50	23.88	1.00

HEC-RAS Plan: Plan 01 River: QUEBRADA 3A Reach: QUEBRADA 3A Profile: PF 1

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
QUEBRADA 3A	440.15	PF 1	5.26	32.58	33.00	33.00	33.10	0.035683	1.43	3.68	18.53	1.02
QUEBRADA 3A	440	PF 1	5.26	32.57	32.96	32.98	33.09	0.049824	1.61	3.27	17.66	1.19
QUEBRADA 3A	420	PF 1	5.26	33.34	33.71	33.71	33.81	0.034727	1.43	3.67	18.01	1.01
QUEBRADA 3A	400	PF 1	5.26	33.69	34.22	34.22	34.36	0.031327	1.71	3.08	10.70	1.02
QUEBRADA 3A	380	PF 1	5.26	33.98	34.45	34.45	34.54	0.037071	1.35	3.89	21.76	1.02
QUEBRADA 3A	360	PF 1	5.26	34.32	34.67	34.67	34.74	0.041031	1.16	4.53	34.47	1.02
QUEBRADA 3A	340	PF 1	5.26	34.87	35.13	35.13	35.18	0.047251	0.97	5.44	60.71	1.03
QUEBRADA 3A	320	PF 1	5.26	33.76	34.47	34.47	34.68	0.027973	2.04	2.58	6.18	1.01
QUEBRADA 3A	300	PF 1	5.26	35.03	35.55	35.55	35.67	0.034448	1.54	3.41	14.73	1.03
QUEBRADA 3A	280	PF 1	5.26	35.45	35.93	35.93	36.03	0.034233	1.42	3.70	18.09	1.00
QUEBRADA 3A	260	PF 1	5.26	36.10	36.49	36.49	36.56	0.036125	1.20	4.37	28.63	0.98
QUEBRADA 3A	240	PF 1	5.26	36.53	36.80	36.80	36.88	0.038756	1.22	4.33	29.52	1.01
QUEBRADA 3A	220	PF 1	5.26	36.56	36.94	36.94	37.05	0.033886	1.48	3.55	16.33	1.01
QUEBRADA 3A	200	PF 1	5.26	36.71	37.18	37.18	37.31	0.032549	1.58	3.32	13.38	1.01
QUEBRADA 3A	180	PF 1	5.26	37.84	38.08	38.08	38.16	0.036039	1.30	4.06	23.83	1.00
QUEBRADA 3A	160	PF 1	5.26	38.89	39.34	39.34	39.46	0.032411	1.58	3.32	13.34	1.01
QUEBRADA 3A	140	PF 1	5.26	40.07	40.56	40.56	40.68	0.032468	1.54	3.41	14.22	1.01
QUEBRADA 3A	120	PF 1	5.26	41.20	41.60	41.60	41.72	0.033486	1.53	3.43	14.82	1.02
QUEBRADA 3A	100	PF 1	5.26	42.40	42.93	42.93	43.06	0.031963	1.58	3.34	13.31	1.00
QUEBRADA 3A	80	PF 1	5.26	43.80	44.33	44.33	44.45	0.032552	1.58	3.32	13.37	1.01
QUEBRADA 3A	60	PF 1	5.26	44.96	45.41	45.41	45.53	0.032519	1.56	3.36	13.77	1.01
QUEBRADA 3A	40	PF 1	5.26	46.54	46.99	46.99	47.08	0.036385	1.33	3.96	22.62	1.01
QUEBRADA 3A	20	PF 1	5.26	47.36	47.79	47.79	47.91	0.033680	1.51	3.49	15.54	1.01
QUEBRADA 3A	0	PF 1	5.26	48.71	48.96	48.96	49.05	0.036205	1.32	4.00	23.02	1.01

HEC-RAS Plan: Plan 01 River: QUEBRADA 3C Reach: QUEBRADA 3C Profile: PF 1

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
QUEBRADA 3C	428.37	PF 1	1.75	18.05	18.37	18.37	18.44	0.041336	1.20	1.46	10.58	1.03
QUEBRADA 3C	420	PF 1	1.75	18.00	18.40	18.40	18.50	0.036346	1.42	1.24	6.26	1.02
QUEBRADA 3C	400	PF 1	1.75	18.80	19.04	19.04	19.10	0.043343	1.07	1.63	14.57	1.02
QUEBRADA 3C	380	PF 1	1.75	19.00	19.44	19.44	19.53	0.037668	1.36	1.28	7.11	1.02
QUEBRADA 3C	360	PF 1	1.75	22.13	22.36	22.36	22.43	0.038559	1.17	1.50	10.84	1.00
QUEBRADA 3C	340	PF 1	1.75	22.12	22.54	22.54	22.64	0.038430	1.42	1.23	6.20	1.02
QUEBRADA 3C	320	PF 1	1.75	24.00	24.50	24.50	24.61	0.036800	1.48	1.19	5.61	1.02
QUEBRADA 3C	300	PF 1	1.75	28.03	28.48	28.48	28.56	0.036351	1.23	1.43	8.96	0.98
QUEBRADA 3C	280	PF 1	1.75	33.03	33.22	33.22	33.27	0.045324	0.96	1.83	19.97	1.01
QUEBRADA 3C	260	PF 1	1.75	35.98	36.09	36.09	36.13	0.048001	0.82	2.13	30.49	1.00
QUEBRADA 3C	240	PF 1	1.75	35.00	35.38	35.38	35.52	0.032187	1.68	1.04	3.66	1.00
QUEBRADA 3C	220	PF 1	1.75	40.08	40.57	40.57	40.70	0.037985	1.58	1.11	4.52	1.02
QUEBRADA 3C	200	PF 1	1.75	40.60	41.29	41.29	41.49	0.041145	1.94	0.90	2.41	1.01
QUEBRADA 3C	180	PF 1	1.75	44.86	45.11	45.11	45.19	0.036591	1.28	1.37	8.23	1.00
QUEBRADA 3C	160	PF 1	1.75	47.00	47.26	47.26	47.36	0.035049	1.36	1.29	6.85	1.00
QUEBRADA 3C	140	PF 1	1.75	47.00	47.21	47.21	47.30	0.035819	1.31	1.34	7.63	1.00
QUEBRADA 3C	120	PF 1	1.75	48.99	49.35	49.35	49.46	0.034545	1.43	1.22	5.92	1.01
QUEBRADA 3C	100	PF 1	1.75	50.21	50.67	50.67	50.80	0.033659	1.57	1.12	4.60	1.01
QUEBRADA 3C	80	PF 1	1.75	52.00	52.59	52.59	52.76	0.033084	1.81	0.97	2.96	1.01
QUEBRADA 3C	60	PF 1	1.75	53.85	54.08	54.08	54.15	0.038298	1.23	1.42	9.43	1.01
QUEBRADA 3C	40	PF 1	1.75	54.00	54.31	54.31	54.40	0.035369	1.37	1.28	6.79	1.01
QUEBRADA 3C	20	PF 1	1.75	55.99	56.21	56.21	56.27	0.041495	1.09	1.61	13.60	1.01
QUEBRADA 3C	0	PF 1	1.75	58.92	59.28	59.28	59.37	0.038205	1.37	1.28	6.91	1.01

HEC-RAS Plan: Plan 01 River: QUEBRADA 6 Reach: QUEBRADA 6 Profile: PF 1

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
QUEBRADA 6	608.12	PF 1	3.44	8.72	58.31		58.31	0.000000	0.00	4663.32	100.00	0.00
QUEBRADA 6	600	PF 1	3.44	9.12	58.31		58.31	0.000000	0.00	4714.09	100.00	0.00
QUEBRADA 6	580	PF 1	3.44	8.35	58.31		58.31	0.000000	0.00	4677.26	100.00	0.00
QUEBRADA 6	560	PF 1	3.44	8.99	58.31		58.31	0.000000	0.00	4666.83	100.00	0.00
QUEBRADA 6	540	PF 1	3.44	9.96	58.31		58.31	0.000000	0.00	4677.70	100.00	0.00
QUEBRADA 6	520	PF 1	3.44	10.71	58.31		58.31	0.000000	0.00	4647.02	100.00	0.00
QUEBRADA 6	500	PF 1	3.44	11.00	58.31		58.31	0.000000	0.00	4535.74	100.00	0.00
QUEBRADA 6	480	PF 1	3.44	10.57	58.31		58.31	0.000000	0.00	4514.55	100.00	0.00
QUEBRADA 6	460	PF 1	3.44	13.24	58.31		58.31	0.000000	0.00	4419.79	100.00	0.00
QUEBRADA 6	440	PF 1	3.44	13.92	58.31		58.31	0.000000	0.00	4325.12	100.00	0.00
QUEBRADA 6	420	PF 1	3.44	13.00	58.31		58.31	0.000000	0.00	4312.88	100.00	0.00
QUEBRADA 6	400	PF 1	3.44	13.01	58.31		58.31	0.000000	0.00	4306.30	100.00	0.00
QUEBRADA 6	380	PF 1	3.44	13.94	58.31		58.31	0.000000	0.00	4234.28	100.00	0.00
QUEBRADA 6	360	PF 1	3.44	14.23	58.31		58.31	0.000000	0.00	4129.74	100.00	0.00
QUEBRADA 6	340	PF 1	3.44	16.13	58.31		58.31	0.000000	0.00	3972.18	100.00	0.00
QUEBRADA 6	320	PF 1	3.44	18.34	58.31		58.31	0.000000	0.00	3796.71	100.00	0.00
QUEBRADA 6	300	PF 1	3.44	20.00	58.31		58.31	0.000000	0.00	3628.82	100.00	0.00
QUEBRADA 6	280	PF 1	3.44	21.89	58.31		58.31	0.000000	0.00	3448.44	100.00	0.00
QUEBRADA 6	260	PF 1	3.44	24.36	58.31		58.31	0.000000	0.00	3228.34	100.00	0.00
QUEBRADA 6	240	PF 1	3.44	26.60	58.31		58.31	0.000000	0.00	3040.76	100.00	0.00
QUEBRADA 6	220	PF 1	3.44	29.64	58.31		58.31	0.000000	0.00	2701.23	100.00	0.00
QUEBRADA 6	200	PF 1	3.44	31.44	58.31		58.31	0.000000	0.00	2473.25	100.00	0.00
QUEBRADA 6	180	PF 1	3.44	34.00	58.31		58.31	0.000000	0.00	2167.95	100.00	0.00
QUEBRADA 6	160	PF 1	3.44	36.59	58.31		58.31	0.000000	0.00	1666.00	100.00	0.00
QUEBRADA 6	140	PF 1	3.44	40.93	58.31		58.31	0.000000	0.00	1368.79	100.00	0.00
QUEBRADA 6	120	PF 1	3.44	42.61	58.31		58.31	0.000000	0.00	1254.72	100.00	0.00
QUEBRADA 6	100	PF 1	3.44	45.31	58.31		58.31	0.000000	0.00	824.82	100.00	0.00
QUEBRADA 6	80	PF 1	3.44	48.70	58.31		58.31	0.000000	0.01	611.56	100.00	0.00
QUEBRADA 6	60	PF 1	3.44	52.10	58.31		58.31	0.000000	0.01	428.61	100.00	0.00
QUEBRADA 6	40	PF 1	3.44	54.22	58.31		58.31	0.000000	0.01	251.13	100.00	0.00
QUEBRADA 6	20	PF 1	3.44	55.92	58.31		58.31	0.000003	0.04	81.68	64.18	0.01
QUEBRADA 6	0	PF 1	3.44	57.81	58.19	58.19	58.30	0.034412	1.45	2.37	11.35	1.01

HEC-RAS Plan: Plan 01 River: QUEBRADA 7 Reach: QUEBRADA 7 Profile: PF 1

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
QUEBRADA 7	309.93	PF 1	1.75	8.89	9.13	9.13	9.19	0.040822	1.07	1.64	14.01	1.00
QUEBRADA 7	300	PF 1	1.75	8.97	9.09	9.09	9.14	0.043684	0.95	1.84	19.77	1.00
QUEBRADA 7	280	PF 1	1.75	10.94	11.17	11.17	11.26	0.036171	1.33	1.32	7.47	1.01
QUEBRADA 7	260	PF 1	1.75	11.94	12.10	12.10	12.15	0.043031	1.01	1.73	16.73	1.01
QUEBRADA 7	240	PF 1	1.75	12.78	13.02	13.02	13.08	0.044459	1.08	1.62	14.59	1.03
QUEBRADA 7	220	PF 1	1.75	13.37	13.68	13.68	13.75	0.041810	1.17	1.50	11.21	1.02
QUEBRADA 7	200	PF 1	1.75	14.25	14.52	14.52	14.59	0.040776	1.17	1.50	11.04	1.01
QUEBRADA 7	180	PF 1	1.75	15.27	15.40	15.40	15.44	0.048009	0.87	2.02	26.97	1.01
QUEBRADA 7	160	PF 1	1.75	15.98	16.06	16.06	16.09	0.051705	0.75	2.33	40.61	1.00
QUEBRADA 7	140	PF 1	1.75	16.04	16.33	16.33	16.41	0.038343	1.24	1.42	9.33	1.01
QUEBRADA 7	120	PF 1	1.75	17.81	18.09	18.09	18.17	0.037785	1.25	1.40	8.93	1.01
QUEBRADA 7	100	PF 1	1.75	19.00	19.19	19.19	19.26	0.037673	1.23	1.42	9.30	1.01
QUEBRADA 7	80	PF 1	1.75	21.16	21.44	21.44	21.51	0.038881	1.21	1.45	9.95	1.01
QUEBRADA 7	60	PF 1	1.75	22.40	22.65	22.65	22.73	0.039556	1.18	1.49	10.80	1.01
QUEBRADA 7	40	PF 1	1.75	23.00	23.22	23.22	23.31	0.036114	1.32	1.33	7.54	1.01
QUEBRADA 7	20	PF 1	1.75	24.64	25.01	25.01	25.10	0.036685	1.35	1.29	7.19	1.02
QUEBRADA 7	0	PF 1	1.75	28.11	28.33	28.33	28.38	0.041100	1.05	1.67	14.95	1.00

HEC-RAS Plan: Plan 01 River: QUEBRADA 8 Reach: QUEBRADA 8 Profile: PF 1

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
QUEBRADA 8	893.87	PF 1	8.92	4.51	5.75	5.75	6.06	0.026361	2.47	3.61	5.83	1.00
QUEBRADA 8	880	PF 1	8.92	4.38	4.86	5.03	5.40	0.097325	3.27	2.73	8.00	1.79
QUEBRADA 8	860	PF 1	8.92	7.02	7.57	7.57	7.76	0.030319	1.93	4.63	12.43	1.01
QUEBRADA 8	840	PF 1	8.92	4.88	5.67	5.92	6.52	0.158778	4.08	2.19	6.34	2.22
QUEBRADA 8	820	PF 1	8.92	5.40	6.19	6.19	6.35	0.032589	1.81	4.93	14.89	1.00
QUEBRADA 8	800	PF 1	8.92	4.76	5.76	5.76	5.98	0.027621	2.07	4.31	9.91	1.00
QUEBRADA 8	780	PF 1	8.92	7.98	8.54	8.54	8.66	0.032638	1.57	5.67	23.04	1.01
QUEBRADA 8	760	PF 1	8.92	7.95	8.92	8.92	9.08	0.031663	1.75	5.10	16.62	1.01
QUEBRADA 8	740	PF 1	8.92	9.51	10.20	10.20	10.38	0.030725	1.87	4.76	13.80	1.02
QUEBRADA 8	720	PF 1	8.92	10.06	11.10	11.10	11.35	0.028459	2.19	4.07	8.61	1.02
QUEBRADA 8	700	PF 1	8.92	10.73	12.16	12.16	12.31	0.035806	1.71	5.21	19.11	1.05
QUEBRADA 8	680	PF 1	8.92	12.67	13.14	13.14	13.24	0.032707	1.39	6.41	31.42	0.98
QUEBRADA 8	660	PF 1	8.92	13.13	13.85	13.85	14.05	0.027845	1.97	4.52	11.53	1.01
QUEBRADA 8	640	PF 1	8.92	13.67	14.72	14.72	14.93	0.030558	2.05	4.36	10.23	1.00
QUEBRADA 8	620	PF 1	8.92	15.03	16.02	16.02	16.24	0.028723	2.06	4.33	10.07	1.00
QUEBRADA 8	600	PF 1	8.92	17.62	18.35	18.35	18.55	0.027618	2.00	4.45	10.98	1.01
QUEBRADA 8	580	PF 1	8.92	17.70	18.50	18.50	18.68	0.028979	1.86	4.80	13.70	1.00
QUEBRADA 8	560	PF 1	8.92	19.97	20.40	20.40	20.52	0.031291	1.55	5.76	23.27	0.99
QUEBRADA 8	540	PF 1	8.92	20.79	21.58	21.58	21.80	0.027318	2.08	4.30	9.92	1.01
QUEBRADA 8	520	PF 1	8.92	21.99	22.56	22.56	22.72	0.029107	1.79	4.98	15.25	1.00
QUEBRADA 8	500	PF 1	8.92	23.00	23.76	23.76	23.96	0.028125	1.98	4.50	11.48	1.01
QUEBRADA 8	480	PF 1	8.92	23.47	24.17	24.17	24.40	0.027626	2.10	4.25	9.70	1.01
QUEBRADA 8	460	PF 1	8.92	25.57	26.20	26.20	26.38	0.028800	1.87	4.76	13.53	1.01
QUEBRADA 8	440	PF 1	8.92	26.98	27.80	27.80	27.99	0.028189	1.92	4.64	12.34	1.00
QUEBRADA 8	420	PF 1	8.92	28.18	29.03	29.03	29.27	0.026852	2.15	4.15	9.01	1.01
QUEBRADA 8	400	PF 1	8.92	29.86	30.36	30.36	30.53	0.029224	1.83	4.87	14.50	1.01
QUEBRADA 8	380	PF 1	8.92	30.97	31.33	31.33	31.48	0.030577	1.70	5.25	18.10	1.01
QUEBRADA 8	360	PF 1	8.92	32.00	32.51	32.51	32.71	0.027748	1.96	4.54	11.68	1.00
QUEBRADA 8	340	PF 1	8.92	32.99	33.81	33.81	34.01	0.028445	1.99	4.48	11.38	1.01
QUEBRADA 8	320	PF 1	8.92	33.12	33.79	33.79	33.93	0.030451	1.71	5.23	17.71	1.00
QUEBRADA 8	300	PF 1	8.92	34.20	34.92	34.92	35.12	0.028439	1.96	4.55	11.95	1.01
QUEBRADA 8	280	PF 1	8.92	34.01	35.44	35.44	35.84	0.029227	2.80	3.18	3.98	1.00
QUEBRADA 8	260	PF 1	8.92	36.10	37.02	37.02	37.28	0.026262	2.26	3.94	7.56	1.00
QUEBRADA 8	240	PF 1	8.92	37.78	38.63	38.63	38.84	0.028070	2.06	4.33	10.03	1.00
QUEBRADA 8	220	PF 1	8.92	38.65	39.67	39.67	39.90	0.028451	2.11	4.23	9.57	1.01
QUEBRADA 8	200	PF 1	8.92	40.28	41.13	41.13	41.39	0.028329	2.26	3.95	7.79	1.01
QUEBRADA 8	180	PF 1	8.92	41.35	42.12	42.12	42.35	0.027558	2.11	4.22	9.49	1.01
QUEBRADA 8	160	PF 1	8.92	42.39	43.30	43.30	43.59	0.026157	2.41	3.70	6.33	1.01
QUEBRADA 8	140	PF 1	8.92	43.98	45.02	45.02	45.35	0.026291	2.56	3.48	5.30	1.01
QUEBRADA 8	120	PF 1	8.92	45.62	46.80	46.80	47.11	0.028169	2.48	3.59	5.83	1.01
QUEBRADA 8	100	PF 1	8.92	48.91	49.19	49.19	49.27	0.037984	1.26	7.06	44.79	1.02
QUEBRADA 8	80	PF 1	8.92	50.66	51.10	51.10	51.21	0.035536	1.43	6.25	31.27	1.02
QUEBRADA 8	60	PF 1	8.92	54.11	54.50	54.50	54.59	0.037090	1.32	6.74	39.18	1.02
QUEBRADA 8	40	PF 1	8.92	55.36	55.71	55.71	55.82	0.033419	1.51	5.92	26.25	1.01
QUEBRADA 8	20	PF 1	8.92	56.94	57.25	57.25	57.34	0.036810	1.31	6.81	39.97	1.01
QUEBRADA 8	0	PF 1	8.92	58.57	58.89	58.89	58.97	0.036432	1.27	7.03	43.05	1.00

HEC-RAS Plan: Plan 01 River: QUEBRADA 9 Reach: QUEBRADA 9 Profile: PF 1

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
QUEBRADA 9	348.16	PF 1	3.26	5.15	5.48	5.48	5.56	0.037824	1.28	2.55	15.63	1.01
QUEBRADA 9	340	PF 1	3.26	4.82	5.13	5.14	5.23	0.044300	1.36	2.40	15.31	1.09
QUEBRADA 9	320	PF 1	3.26	9.66	9.99	9.99	10.12	0.033191	1.62	2.02	7.62	1.00
QUEBRADA 9	300	PF 1	3.26	12.27	12.60	12.60	12.70	0.036536	1.36	2.40	13.07	1.02
QUEBRADA 9	280	PF 1	3.26	14.18	14.88	14.88	14.99	0.042326	1.48	2.21	10.22	1.01
QUEBRADA 9	260	PF 1	3.26	14.64	15.92	15.92	16.07	0.043807	1.71	1.91	6.66	1.02
QUEBRADA 9	240	PF 1	3.26	14.98	16.43	16.43	16.58	0.045088	1.74	1.87	6.39	1.03
QUEBRADA 9	220	PF 1	3.26	15.34	16.14	16.14	16.35	0.039079	2.00	1.63	4.07	1.01
QUEBRADA 9	200	PF 1	3.26	16.40	16.91	16.91	17.08	0.030711	1.81	1.81	5.53	1.01
QUEBRADA 9	180	PF 1	3.26	18.00	18.42	18.42	18.51	0.034286	1.37	2.39	12.38	0.99
QUEBRADA 9	160	PF 1	3.26	19.74	20.25	20.25	20.40	0.030637	1.76	1.85	5.95	1.01
QUEBRADA 9	140	PF 1	3.26	25.93	26.25	26.25	26.35	0.035222	1.41	2.31	11.61	1.01
QUEBRADA 9	120	PF 1	3.26	31.73	32.17	32.17	32.29	0.032811	1.57	2.08	8.51	1.01
QUEBRADA 9	100	PF 1	3.26	35.36	35.68	35.68	35.75	0.037109	1.22	2.68	17.69	1.00
QUEBRADA 9	80	PF 1	3.26	37.38	37.88	37.88	38.00	0.032589	1.55	2.11	8.74	1.01
QUEBRADA 9	60	PF 1	3.26	39.71	40.14	40.14	40.28	0.031409	1.64	1.99	7.31	1.01
QUEBRADA 9	40	PF 1	3.26	42.65	42.96	42.96	43.04	0.038245	1.25	2.61	16.92	1.01
QUEBRADA 9	20	PF 1	3.26	45.06	45.60	45.60	45.74	0.032287	1.67	1.96	7.12	1.01
QUEBRADA 9	0	PF 1	3.26	47.61	47.88	47.88	47.93	0.037935	1.00	3.27	29.43	0.96

HEC-RAS Plan: Plan 01 River: QUEBRADA LAS LAJ Reach: QUEBRADA LAS LAJ Profile: PF 1

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
QUEBRADA LAS LAJ	1318.97	PF 1	17.81	7.06	7.88	7.88	8.16	0.025284	2.33	7.64	14.06	1.01
QUEBRADA LAS LAJ	1300	PF 1	17.81	7.42	8.15	8.15	8.43	0.024828	2.36	7.56	13.51	1.01
QUEBRADA LAS LAJ	1280	PF 1	17.81	8.14	9.47	9.47	9.67	0.031417	1.99	8.95	22.67	1.01
QUEBRADA LAS LAJ	1260	PF 1	17.81	9.18	10.70	10.70	10.91	0.032477	2.02	8.82	22.55	1.03
QUEBRADA LAS LAJ	1240	PF 1	17.81	9.07	10.61	10.61	10.83	0.030331	2.07	8.59	19.83	1.01
QUEBRADA LAS LAJ	1220	PF 1	17.81	9.29	10.30	10.30	10.47	0.028999	1.83	9.71	28.50	1.00
QUEBRADA LAS LAJ	1200	PF 1	17.81	10.63	11.69	11.69	11.84	0.029589	1.73	10.27	33.28	1.00
QUEBRADA LAS LAJ	1180	PF 1	17.81	11.87	12.32	12.32	12.50	0.028979	1.86	9.57	27.56	1.01
QUEBRADA LAS LAJ	1160	PF 1	17.81	12.34	12.91	12.91	13.10	0.028153	1.94	9.20	24.53	1.01
QUEBRADA LAS LAJ	1140	PF 1	17.81	12.52	13.19	13.19	13.39	0.027828	1.97	9.05	23.28	1.01
QUEBRADA LAS LAJ	1120	PF 1	17.81	13.00	13.79	13.79	14.04	0.026213	2.20	8.08	16.72	1.01
QUEBRADA LAS LAJ	1100	PF 1	17.81	14.17	14.93	14.93	15.18	0.027851	2.23	7.99	16.97	1.04
QUEBRADA LAS LAJ	1080	PF 1	17.81	14.25	15.18	15.18	15.39	0.027135	2.07	8.62	19.81	1.00
QUEBRADA LAS LAJ	1060	PF 1	17.81	14.89	15.55	15.55	15.79	0.026363	2.15	8.28	17.80	1.01
QUEBRADA LAS LAJ	1040	PF 1	17.81	15.02	15.91	15.91	16.14	0.027021	2.10	8.46	19.22	1.01
QUEBRADA LAS LAJ	1020	PF 1	17.81	16.58	17.47	17.47	17.70	0.028119	2.12	8.40	18.25	1.00
QUEBRADA LAS LAJ	1000	PF 1	17.81	17.15	17.91	17.91	18.12	0.026907	2.03	8.78	20.97	1.00
QUEBRADA LAS LAJ	980	PF 1	17.81	17.64	18.65	18.65	18.98	0.024444	2.56	6.97	10.59	1.01
QUEBRADA LAS LAJ	960	PF 1	17.81	18.02	18.96	18.96	19.33	0.023753	2.69	6.62	9.08	1.01
QUEBRADA LAS LAJ	940	PF 1	17.81	18.98	19.92	19.92	20.26	0.023937	2.61	6.83	9.91	1.00
QUEBRADA LAS LAJ	920	PF 1	17.81	19.83	20.81	20.81	21.07	0.026050	2.26	7.88	15.31	1.01
QUEBRADA LAS LAJ	900	PF 1	17.81	20.52	21.29	21.29	21.58	0.024934	2.37	7.51	13.23	1.01
QUEBRADA LAS LAJ	880	PF 1	17.81	20.74	21.84	21.84	22.17	0.023829	2.56	6.96	10.50	1.00
QUEBRADA LAS LAJ	860	PF 1	17.81	22.29	23.00	23.00	23.25	0.026180	2.19	8.13	16.91	1.01
QUEBRADA LAS LAJ	840	PF 1	17.81	22.91	23.71	23.71	23.92	0.028112	2.02	8.81	21.58	1.01
QUEBRADA LAS LAJ	820	PF 1	17.81	24.55	25.14	25.14	25.34	0.028209	1.95	9.13	24.07	1.01
QUEBRADA LAS LAJ	800	PF 1	17.81	25.03	25.87	25.87	26.14	0.025303	2.30	7.73	14.54	1.01
QUEBRADA LAS LAJ	780	PF 1	17.81	25.68	26.59	26.59	26.94	0.024350	2.61	6.83	10.00	1.01
QUEBRADA LAS LAJ	760	PF 1	17.81	26.14	27.09	27.09	27.47	0.024005	2.71	6.57	8.88	1.01
QUEBRADA LAS LAJ	740	PF 1	17.81	26.97	27.79	27.79	28.11	0.024236	2.53	7.04	10.93	1.01
QUEBRADA LAS LAJ	720	PF 1	17.81	27.68	28.53	28.53	28.87	0.025018	2.57	6.92	10.41	1.01
QUEBRADA LAS LAJ	700	PF 1	17.81	28.55	29.50	29.50	29.82	0.024562	2.51	7.09	11.24	1.01
QUEBRADA LAS LAJ	680	PF 1	17.81	29.54	30.43	30.43	30.70	0.025426	2.28	7.80	14.69	1.00
QUEBRADA LAS LAJ	660	PF 1	17.81	30.31	31.13	31.13	31.38	0.025811	2.21	8.08	16.33	1.00
QUEBRADA LAS LAJ	640	PF 1	17.81	31.10	32.06	32.06	32.26	0.028013	2.02	8.81	21.60	1.01
QUEBRADA LAS LAJ	620	PF 1	17.81	31.25	32.30	32.30	32.67	0.023422	2.69	6.63	9.01	1.00
QUEBRADA LAS LAJ	600	PF 1	17.81	31.62	32.79	32.79	33.13	0.025198	2.57	6.92	10.25	1.00
QUEBRADA LAS LAJ	580	PF 1	17.81	32.16	32.97	32.97	33.28	0.024119	2.48	7.17	11.49	1.00
QUEBRADA LAS LAJ	560	PF 1	17.81	32.91	33.94	33.94	34.11	0.029734	1.81	9.82	29.60	1.01
QUEBRADA LAS LAJ	540	PF 1	17.81	34.21	34.99	34.99	35.18	0.028434	1.95	9.13	23.58	1.00
QUEBRADA LAS LAJ	520	PF 1	17.81	34.73	35.54	35.54	35.82	0.025158	2.36	7.55	13.51	1.01
QUEBRADA LAS LAJ	500	PF 1	17.81	34.98	36.08	36.08	36.44	0.023814	2.63	6.76	9.51	1.00
QUEBRADA LAS LAJ	480	PF 1	17.81	36.05	37.04	37.04	37.25	0.027162	2.02	8.82	21.12	1.00
QUEBRADA LAS LAJ	460	PF 1	17.81	36.57	37.39	37.39	37.69	0.024884	2.43	7.35	12.48	1.01
QUEBRADA LAS LAJ	440	PF 1	17.81	37.08	38.05	38.05	38.31	0.025436	2.27	7.84	15.06	1.01
QUEBRADA LAS LAJ	420	PF 1	17.81	38.13	38.88	38.88	39.12	0.026930	2.14	8.32	18.12	1.01
QUEBRADA LAS LAJ	400	PF 1	17.81	38.53	39.20	39.20	39.41	0.028106	2.01	8.88	22.28	1.01
QUEBRADA LAS LAJ	380	PF 1	17.81	38.86	39.80	39.80	40.02	0.027146	2.10	8.49	19.28	1.01
QUEBRADA LAS LAJ	360	PF 1	17.81	41.57	42.11	42.11	42.27	0.029721	1.76	10.13	32.05	1.00
QUEBRADA LAS LAJ	340	PF 1	17.81	41.98	43.20	43.20	43.46	0.027638	2.28	7.82	14.81	1.00
QUEBRADA LAS LAJ	320	PF 1	17.81	42.92	43.59	43.59	43.81	0.026773	2.08	8.56	19.70	1.01
QUEBRADA LAS LAJ	300	PF 1	17.81	43.93	44.61	44.61	44.85	0.025901	2.15	8.28	17.66	1.00
QUEBRADA LAS LAJ	280	PF 1	17.81	44.53	45.45	45.45	45.70	0.026157	2.22	8.03	16.42	1.01
QUEBRADA LAS LAJ	260	PF 1	17.81	45.38	46.25	46.25	46.58	0.024961	2.51	7.10	11.23	1.01
QUEBRADA LAS LAJ	240	PF 1	17.81	46.36	47.20	47.20	47.50	0.024541	2.45	7.28	12.13	1.01
QUEBRADA LAS LAJ	220	PF 1	17.81	47.65	48.42	48.42	48.76	0.024541	2.58	6.91	10.35	1.01
QUEBRADA LAS LAJ	200	PF 1	17.81	48.42	49.38	49.38	49.76	0.024242	2.73	6.52	8.68	1.01
QUEBRADA LAS LAJ	180	PF 1	17.81	49.78	50.72	50.72	51.09	0.024193	2.67	6.66	9.27	1.01
QUEBRADA LAS LAJ	160	PF 1	17.81	50.76	51.65	51.65	52.00	0.024687	2.63	6.77	9.76	1.01
QUEBRADA LAS LAJ	140	PF 1	17.81	53.39	54.60	54.60	54.96	0.024505	2.63	6.78	9.79	1.01
QUEBRADA LAS LAJ	120	PF 1	17.81	56.57	57.47	57.47	57.80	0.024271	2.55	7.00	10.76	1.01
QUEBRADA LAS LAJ	100	PF 1	17.81	57.93	58.82	58.82	59.17	0.024195	2.60	6.86	10.07	1.01
QUEBRADA LAS LAJ	80	PF 1	17.81	58.57	59.55	59.55	59.95	0.023922	2.81	6.34	7.98	1.01
QUEBRADA LAS LAJ	60	PF 1	17.81	59.37	60.37	60.37	60.76	0.024024	2.76	6.44	8.38	1.01
QUEBRADA LAS LAJ	40	PF 1	17.81	60.08	61.07	61.07	61.43	0.024338	2.66	6.69	9.41	1.01
QUEBRADA LAS LAJ	20	PF 1	17.81	60.30	61.10	61.10	61.36	0.026635	2.26	7.88	15.43	1.01
QUEBRADA LAS LAJ	0	PF 1	17.81	60.73	61.80	61.80	62.19	0.023497	2.74	6.49	8.45	1.00

HEC-RAS Plan: Plan 01 River: NARANJAL 1 Reach: NARANJAL 1 Profile: PF 1

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
NARANJAL 1	944.95	PF 1	58.10	30.69	32.16	32.16	32.56	0.022953	2.78	20.90	27.16	1.01
NARANJAL 1	940	PF 1	58.10	30.93	32.41	32.41	32.76	0.023986	2.62	22.19	32.77	1.02
NARANJAL 1	920	PF 1	58.10	29.74	31.51	31.65	32.15	0.036029	3.54	16.44	19.17	1.22
NARANJAL 1	900	PF 1	58.10	30.69	32.10	32.10	32.44	0.023274	2.60	22.37	33.03	1.01
NARANJAL 1	880	PF 1	58.10	31.17	32.99	32.99	33.33	0.024747	2.59	22.41	33.02	1.01
NARANJAL 1	860	PF 1	58.10	32.69	33.71	33.71	34.03	0.024327	2.50	23.24	36.52	1.00
NARANJAL 1	840	PF 1	58.10	32.28	34.04	34.04	34.33	0.025248	2.40	24.19	42.22	1.01
NARANJAL 1	820	PF 1	58.10	33.68	34.63	34.63	34.89	0.025151	2.25	25.86	50.45	1.00
NARANJAL 1	800	PF 1	58.10	32.88	35.11	35.11	35.49	0.023214	2.72	21.34	28.73	1.01
NARANJAL 1	780	PF 1	58.10	33.21	35.39	35.39	35.93	0.020437	3.26	17.84	16.53	1.00
NARANJAL 1	760	PF 1	58.10	33.94	35.97	35.97	36.63	0.019861	3.58	16.22	12.39	1.00
NARANJAL 1	740	PF 1	58.10	35.06	36.83	36.83	37.23	0.021960	2.83	20.52	25.19	1.00
NARANJAL 1	720	PF 1	58.10	34.92	36.69	36.69	37.27	0.020760	3.35	17.35	15.45	1.01
NARANJAL 1	700	PF 1	58.10	35.34	37.16	37.16	37.44	0.025515	2.35	24.73	45.07	1.01
NARANJAL 1	680	PF 1	58.10	35.07	36.67	36.67	37.17	0.020930	3.12	18.62	19.11	1.01
NARANJAL 1	660	PF 1	58.10	35.49	37.46	37.46	37.96	0.021277	3.12	18.60	18.97	1.01
NARANJAL 1	640	PF 1	58.10	35.19	37.34	37.34	37.75	0.024062	2.85	20.39	24.50	1.00
NARANJAL 1	620	PF 1	58.10	35.07	36.90	36.90	37.46	0.020071	3.32	17.52	15.62	1.00
NARANJAL 1	600	PF 1	58.10	35.39	37.14	37.14	37.52	0.023422	2.72	21.32	28.25	1.00
NARANJAL 1	580	PF 1	58.10	35.62	37.12	37.12	37.47	0.023700	2.60	22.31	32.95	1.01
NARANJAL 1	560	PF 1	58.10	36.11	38.34	38.34	38.63	0.024782	2.40	24.20	41.88	1.01
NARANJAL 1	540	PF 1	58.10	37.19	39.08	39.08	39.36	0.026188	2.33	24.98	47.19	1.02
NARANJAL 1	520	PF 1	58.10	36.97	38.76	38.76	39.17	0.022726	2.82	20.60	25.62	1.00
NARANJAL 1	500	PF 1	58.10	36.69	38.65	38.65	39.01	0.023456	2.65	21.96	30.80	1.00
NARANJAL 1	480	PF 1	58.10	36.83	39.17	39.17	39.45	0.026613	2.33	24.95	46.31	1.01
NARANJAL 1	460	PF 1	58.10	37.49	38.82	38.82	39.18	0.023872	2.65	21.96	30.86	1.00
NARANJAL 1	440	PF 1	58.10	36.94	39.10	39.10	39.44	0.024886	2.56	22.67	34.91	1.02
NARANJAL 1	420	PF 1	58.10	36.77	37.86	38.10	38.58	0.080826	3.74	15.53	32.38	1.72
NARANJAL 1	400	PF 1	58.10	38.23	40.05	40.05	40.40	0.023252	2.61	22.23	32.33	1.01
NARANJAL 1	380	PF 1	58.10	38.02	39.78	39.78	40.10	0.023776	2.53	22.93	35.54	1.01
NARANJAL 1	360	PF 1	58.10	39.23	40.62	40.62	40.98	0.023645	2.65	21.90	31.00	1.01
NARANJAL 1	340	PF 1	58.10	38.78	40.69	40.69	41.11	0.024596	2.86	20.35	24.83	1.01
NARANJAL 1	320	PF 1	58.10	39.85	41.55	41.55	41.81	0.025407	2.29	25.32	48.02	1.01
NARANJAL 1	300	PF 1	58.10	39.92	41.19	41.19	41.61	0.022416	2.88	20.19	24.19	1.01
NARANJAL 1	280	PF 1	58.10	40.13	41.92	41.92	42.25	0.024822	2.53	23.01	36.62	1.02
NARANJAL 1	260	PF 1	58.10	40.62	42.84	42.84	43.05	0.028512	2.05	28.30	67.78	1.01
NARANJAL 1	240	PF 1	58.10	40.61	42.53	42.53	42.86	0.024281	2.58	22.55	33.69	1.01
NARANJAL 1	220	PF 1	58.10	40.02	41.50	41.69	42.17	0.047323	3.63	16.00	23.69	1.41
NARANJAL 1	200	PF 1	58.10	41.49	42.92	42.92	43.21	0.026055	2.38	24.44	43.71	1.02
NARANJAL 1	180	PF 1	58.10	40.62	42.76	42.76	43.11	0.024427	2.61	22.26	32.87	1.01
NARANJAL 1	160	PF 1	58.10	41.89	43.94	43.94	44.32	0.022605	2.74	21.17	27.76	1.00
NARANJAL 1	140	PF 1	58.10	42.33	43.79	43.79	44.15	0.024081	2.65	21.90	31.41	1.01
NARANJAL 1	120	PF 1	58.10	42.41	44.31	44.31	44.60	0.026374	2.41	24.09	43.02	1.03
NARANJAL 1	100	PF 1	58.10	42.77	45.32	45.32	45.62	0.026386	2.40	24.17	42.32	1.02
NARANJAL 1	80	PF 1	58.10	43.39	45.28	45.28	45.61	0.023936	2.55	22.79	34.91	1.01
NARANJAL 1	60	PF 1	58.10	42.71	44.90	44.90	45.17	0.027591	2.30	25.23	49.25	1.03
NARANJAL 1	40	PF 1	58.10	43.06	45.42	45.42	45.76	0.025489	2.58	22.53	33.04	1.00
NARANJAL 1	20	PF 1	58.10	44.73	46.57	46.57	47.03	0.021501	3.00	19.39	21.24	1.00
NARANJAL 1	0	PF 1	58.10	44.69	46.78	46.78	47.01	0.027303	2.11	27.57	62.40	1.01

HEC-RAS Plan: Plan 01 River: NARANJAL 2 Reach: NARANJAL 1 Profile: PF 1

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
NARANJAL 1	900	PF 1	112.64	30.69	32.51	32.51	32.96	0.021029	2.98	37.75	41.66	1.00
NARANJAL 1	880	PF 1	112.64	31.17	33.40	33.40	33.84	0.022891	2.94	38.38	44.50	1.01
NARANJAL 1	860	PF 1	112.64	32.69	34.08	34.08	34.53	0.021939	2.96	38.02	42.60	1.00
NARANJAL 1	840	PF 1	112.64	32.28	34.41	34.41	34.78	0.022698	2.69	41.80	56.52	1.00
NARANJAL 1	820	PF 1	112.64	33.68	34.93	34.93	35.29	0.023062	2.67	42.20	59.46	1.01
NARANJAL 1	800	PF 1	112.64	32.88	35.55	35.55	36.04	0.022136	3.08	36.55	39.64	1.02
NARANJAL 1	780	PF 1	112.64	33.21	36.01	36.01	36.77	0.018725	3.86	29.19	19.45	1.01
NARANJAL 1	760	PF 1	112.64	33.94	36.75	36.75	37.64	0.018525	4.19	26.89	15.25	1.01
NARANJAL 1	740	PF 1	112.64	35.06	37.30	37.30	37.88	0.019777	3.36	33.49	29.32	1.00
NARANJAL 1	720	PF 1	112.64	34.92	37.36	37.36	37.90	0.020709	3.25	34.62	32.67	1.01
NARANJAL 1	700	PF 1	112.64	35.34	37.48	37.48	37.87	0.022097	2.75	40.90	52.76	1.00
NARANJAL 1	680	PF 1	112.64	35.07	37.30	37.30	37.88	0.019356	3.39	33.19	28.31	1.00
NARANJAL 1	660	PF 1	112.64	35.49	38.08	38.08	38.54	0.021637	2.99	37.72	42.26	1.01
NARANJAL 1	640	PF 1	112.64	35.19	37.87	37.87	38.28	0.024824	2.84	39.60	50.50	1.03
NARANJAL 1	620	PF 1	112.64	35.07	37.72	37.72	38.21	0.021734	3.11	36.21	38.29	1.02
NARANJAL 1	600	PF 1	112.64	35.39	37.62	37.62	38.07	0.022405	2.97	37.89	42.82	1.01
NARANJAL 1	580	PF 1	112.64	35.62	37.55	37.55	37.97	0.022522	2.90	38.88	46.80	1.01
NARANJAL 1	560	PF 1	112.64	36.11	38.69	38.69	39.09	0.021727	2.81	40.07	49.53	1.00
NARANJAL 1	540	PF 1	112.64	37.19	39.39	39.39	39.77	0.023780	2.71	41.50	57.82	1.02
NARANJAL 1	520	PF 1	112.64	36.97	39.28	39.28	39.70	0.022414	2.86	39.37	47.83	1.01
NARANJAL 1	500	PF 1	112.64	36.69	39.10	39.10	39.49	0.023148	2.78	40.49	52.32	1.01
NARANJAL 1	480	PF 1	112.64	36.83	39.48	39.48	39.87	0.024341	2.79	40.43	53.55	1.02
NARANJAL 1	460	PF 1	112.64	37.49	39.23	39.23	39.75	0.021423	3.19	35.29	34.03	1.00
NARANJAL 1	440	PF 1	112.64	36.94	39.57	39.57	39.89	0.024163	2.51	44.87	70.71	1.01
NARANJAL 1	420	PF 1	112.64	36.77	38.16	38.44	39.07	0.068902	4.22	26.72	41.22	1.67
NARANJAL 1	400	PF 1	112.64	38.23	40.52	40.52	40.90	0.022641	2.73	41.23	55.01	1.01
NARANJAL 1	380	PF 1	112.64	38.02	40.16	40.16	40.61	0.021442	2.95	38.17	43.50	1.01
NARANJAL 1	360	PF 1	112.64	39.23	41.05	41.05	41.47	0.022059	2.85	39.51	47.95	1.00
NARANJAL 1	340	PF 1	112.64	38.78	41.27	41.27	41.71	0.023294	2.94	38.30	43.80	1.00
NARANJAL 1	320	PF 1	112.64	39.85	41.86	41.86	42.22	0.022942	2.63	42.79	61.19	1.01
NARANJAL 1	300	PF 1	112.64	39.92	41.72	41.72	42.25	0.020394	3.22	35.03	33.05	1.00
NARANJAL 1	280	PF 1	112.64	40.13	42.30	42.30	42.68	0.022614	2.72	41.45	55.37	1.00
NARANJAL 1	260	PF 1	112.64	40.62	43.07	43.07	43.39	0.025828	2.52	44.72	73.00	1.03
NARANJAL 1	240	PF 1	112.64	40.61	42.96	42.96	43.34	0.022964	2.75	41.01	53.96	1.01
NARANJAL 1	220	PF 1	112.64	40.02	41.96	42.17	42.71	0.039991	3.84	29.36	35.24	1.34
NARANJAL 1	200	PF 1	112.64	41.49	43.26	43.26	43.62	0.023737	2.66	42.38	59.36	1.00
NARANJAL 1	180	PF 1	112.64	40.62	43.20	43.20	43.63	0.021681	2.93	38.41	43.67	1.00
NARANJAL 1	160	PF 1	112.64	41.89	44.41	44.41	44.86	0.021402	3.00	37.56	41.53	1.01
NARANJAL 1	140	PF 1	112.64	42.33	44.22	44.22	44.70	0.021551	3.07	36.67	37.97	1.00
NARANJAL 1	120	PF 1	112.64	42.41	44.66	44.66	45.03	0.023675	2.70	41.74	58.20	1.02
NARANJAL 1	100	PF 1	112.64	42.77	45.68	45.68	46.01	0.025466	2.54	44.43	71.21	1.03
NARANJAL 1	80	PF 1	112.64	43.39	45.67	45.67	46.13	0.021434	3.00	37.55	41.49	1.01
NARANJAL 1	60	PF 1	112.64	42.71	45.12	45.19	45.60	0.032761	3.06	36.77	52.98	1.17
NARANJAL 1	40	PF 1	112.64	43.06	45.80	45.80	46.23	0.025162	2.88	39.17	49.08	1.03
NARANJAL 1	20	PF 1	112.64	44.73	47.15	47.15	47.62	0.020958	3.03	37.18	39.75	1.00
NARANJAL 1	0	PF 1	112.64	44.69	47.04	47.04	47.37	0.023990	2.56	44.05	67.43	1.01

HEC-RAS Plan: Plan 01 River: RIO CAIMITO Reach: RIO CAIMITO Profile: PF 1

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
RIO CAIMITO	1366.45	PF 1	1022.15	4.79	10.75	10.75	12.54	0.013880	5.92	172.66	48.49	1.00
RIO CAIMITO	1360	PF 1	1022.15	4.71	10.43	10.63	12.42	0.016483	6.25	163.58	48.23	1.08
RIO CAIMITO	1340	PF 1	1022.15	6.68	12.13	12.13	14.01	0.016067	6.07	168.33	45.25	1.01
RIO CAIMITO	1320	PF 1	1022.15	6.97	12.60	12.60	13.94	0.014570	5.14	198.97	71.68	0.98
RIO CAIMITO	1300	PF 1	1022.15	6.16	10.25	11.20	13.32	0.039162	7.76	131.74	52.49	1.56
RIO CAIMITO	1280	PF 1	1022.15	6.00	8.84	9.91	12.29	0.065143	8.23	124.26	67.71	1.94
RIO CAIMITO	1260	PF 1	1022.15	6.88	11.93	11.93	13.22	0.015291	5.03	203.03	78.89	1.00
RIO CAIMITO	1240	PF 1	1022.15	6.02	10.38	11.00	12.71	0.027091	6.77	151.00	58.53	1.35
RIO CAIMITO	1220	PF 1	1022.15	5.25	10.87	10.87	12.43	0.014576	5.53	184.91	60.12	1.01
RIO CAIMITO	1200	PF 1	1022.15	4.75	11.54	11.54	13.12	0.014842	5.56	183.74	58.63	1.00
RIO CAIMITO	1180	PF 1	1022.15	4.40	11.57	11.57	13.35	0.015144	5.92	172.67	48.56	1.00
RIO CAIMITO	1160	PF 1	1022.15	9.24	13.80	13.80	15.50	0.014874	5.77	177.18	52.60	1.00
RIO CAIMITO	1140	PF 1	1022.15	4.78	13.60	13.60	15.37	0.016587	5.88	173.90	49.42	1.00
RIO CAIMITO	1120	PF 1	1022.15	5.39	10.95	12.16	14.68	0.038224	8.56	119.42	35.33	1.49
RIO CAIMITO	1100	PF 1	1022.15	7.81	14.20	14.20	15.62	0.016631	5.29	193.34	70.18	1.02
RIO CAIMITO	1080	PF 1	1022.15	5.26	9.53	11.07	14.66	0.067384	10.02	101.97	42.14	2.06
RIO CAIMITO	1060	PF 1	1022.15	4.01	8.75	10.13	13.24	0.055901	9.38	108.93	43.06	1.88
RIO CAIMITO	1040	PF 1	1022.15	3.01	6.65	8.15	11.83	0.082333	10.08	101.38	48.09	2.22
RIO CAIMITO	1020	PF 1	1022.15	2.66	8.07	8.35	10.22	0.019045	6.49	157.44	45.56	1.12
RIO CAIMITO	1000	PF 1	1022.15	4.26	7.36	8.05	9.65	0.044644	6.71	152.42	88.38	1.63
RIO CAIMITO	980	PF 1	1022.15	3.10	6.40	7.12	8.87	0.033191	6.95	146.98	62.28	1.45
RIO CAIMITO	960	PF 1	1022.15	3.24	8.65	8.65	9.81	0.015937	4.77	214.08	91.78	1.00
RIO CAIMITO	940	PF 1	1022.15	3.30	7.45	7.87	9.33	0.027176	6.07	168.36	74.41	1.29
RIO CAIMITO	920	PF 1	1022.15	4.15	8.30	8.30	9.57	0.015607	4.99	204.93	81.55	1.00
RIO CAIMITO	900	PF 1	1022.15	3.51	9.09	9.09	10.48	0.015617	5.22	195.68	70.80	1.00
RIO CAIMITO	880	PF 1	1022.15	5.29	9.61	9.61	10.89	0.015659	5.02	203.79	79.91	1.00
RIO CAIMITO	860	PF 1	1022.15	3.51	9.56	9.56	10.90	0.015663	5.13	199.40	75.98	1.01
RIO CAIMITO	840	PF 1	1022.15	5.59	10.27	10.27	11.59	0.015391	5.07	201.41	76.85	1.00
RIO CAIMITO	820	PF 1	1022.15	3.83	10.00	10.00	11.32	0.017178	5.08	201.15	77.45	1.01
RIO CAIMITO	800	PF 1	1022.15	4.20	10.40	10.40	11.57	0.018097	4.79	213.41	93.58	1.01
RIO CAIMITO	780	PF 1	1022.15	4.37	10.33	10.33	11.43	0.017176	4.65	219.89	100.00	1.00
RIO CAIMITO	760	PF 1	1022.15	6.70	10.65	10.65	11.75	0.016249	4.65	219.91	100.00	1.00
RIO CAIMITO	740	PF 1	1022.15	6.13	9.11	9.71	11.15	0.043605	6.33	161.49	94.57	1.55
RIO CAIMITO	720	PF 1	1022.15	5.66	8.52	8.98	10.29	0.034976	5.89	173.53	100.00	1.43
RIO CAIMITO	700	PF 1	1022.15	6.57	10.37	10.37	11.75	0.015393	5.20	196.54	71.91	1.00
RIO CAIMITO	680	PF 1	1022.15	5.71	10.36	10.36	12.13	0.014821	5.90	173.29	49.19	1.00
RIO CAIMITO	660	PF 1	1022.15	5.63	10.94	10.94	12.71	0.014928	5.89	173.52	49.86	1.01
RIO CAIMITO	640	PF 1	1022.15	7.08	11.90	11.90	13.65	0.014662	5.86	174.44	49.92	1.00
RIO CAIMITO	620	PF 1	1022.15	6.17	11.23	11.45	13.30	0.017723	6.37	160.38	46.45	1.10
RIO CAIMITO	600	PF 1	1022.15	5.96	12.07	12.07	13.95	0.014760	6.08	168.12	44.74	1.00
RIO CAIMITO	580	PF 1	1022.15	5.95	11.73	11.81	13.63	0.016869	6.12	167.06	47.25	1.04
RIO CAIMITO	560	PF 1	1022.15	5.00	11.67	11.67	13.35	0.015807	5.75	177.84	53.16	1.00
RIO CAIMITO	540	PF 1	1022.15	7.70	12.85	12.85	14.37	0.015384	5.46	187.05	61.70	1.00
RIO CAIMITO	520	PF 1	1022.15	7.08	13.54	13.54	15.03	0.015339	5.40	189.26	64.13	1.00
RIO CAIMITO	500	PF 1	1022.15	5.80	10.57	11.73	14.34	0.037317	8.60	118.86	39.68	1.59
RIO CAIMITO	480	PF 1	1022.15	8.88	13.88	13.88	15.51	0.015321	5.65	180.85	56.11	1.01
RIO CAIMITO	460	PF 1	1022.15	7.91	14.21	14.21	15.82	0.015511	5.62	181.87	56.74	1.00
RIO CAIMITO	440	PF 1	1022.15	7.53	14.35	14.35	15.89	0.016421	5.50	185.92	60.70	1.00
RIO CAIMITO	420	PF 1	1022.15	7.56	14.98	14.98	16.55	0.018127	5.54	184.37	61.19	1.02
RIO CAIMITO	400	PF 1	1022.15	8.00	14.92	14.92	16.56	0.016491	5.66	180.50	55.94	1.01
RIO CAIMITO	380	PF 1	1022.15	9.63	15.59	15.59	17.43	0.016420	6.00	170.28	47.27	1.01
RIO CAIMITO	360	PF 1	1022.15	7.05	10.79	12.46	16.43	0.077387	10.52	97.20	40.03	2.16
RIO CAIMITO	340	PF 1	1022.15	8.00	12.05	12.70	14.71	0.025916	7.23	141.40	44.53	1.30
RIO CAIMITO	320	PF 1	1022.15	7.66	12.99	12.99	14.74	0.014794	5.85	174.67	50.19	1.00
RIO CAIMITO	300	PF 1	1022.15	5.91	10.58	11.63	14.12	0.036853	8.32	122.79	42.10	1.56
RIO CAIMITO	280	PF 1	1022.15	5.84	11.92	11.92	13.79	0.014558	6.04	169.18	45.61	1.00
RIO CAIMITO	260	PF 1	1022.15	6.33	11.33	11.55	13.44	0.017588	6.44	158.78	45.41	1.10
RIO CAIMITO	240	PF 1	1022.15	6.42	12.19	12.19	14.04	0.014925	6.03	169.59	45.90	1.00
RIO CAIMITO	220	PF 1	1022.15	6.05	12.62	12.62	14.49	0.015317	6.06	168.60	45.62	1.01
RIO CAIMITO	200	PF 1	1022.15	8.90	14.85	14.85	16.61	0.015175	5.88	173.94	49.64	1.00
RIO CAIMITO	180	PF 1	1022.15	7.66	14.95	14.95	16.46	0.016294	5.43	188.30	63.25	1.00
RIO CAIMITO	160	PF 1	1022.15	6.43	11.70	13.18	15.66	0.055875	8.82	115.95	46.08	1.77
RIO CAIMITO	140	PF 1	1022.15	5.68	9.87	11.31	14.33	0.074145	9.35	109.33	53.58	2.09
RIO CAIMITO	120	PF 1	1022.15	5.73	7.83	9.01	12.38	0.132751	9.44	108.26	82.97	2.64
RIO CAIMITO	100	PF 1	1022.15	6.17	9.84	9.84	11.14	0.015466	5.05	202.51	78.28	1.00
RIO CAIMITO	80	PF 1	1022.15	6.04	9.98	9.98	11.39	0.015173	5.26	194.40	69.94	1.01
RIO CAIMITO	60	PF 1	1022.15	6.04	10.52	10.52	11.90	0.016216	5.21	196.23	71.09	1.00
RIO CAIMITO	40	PF 1	1022.15	6.20	10.85	10.85	12.12	0.015989	4.99	204.68	81.11	1.00
RIO CAIMITO	20	PF 1	1022.15	6.02	8.88	9.65	11.44	0.055993	7.09	144.11	88.29	1.77
RIO CAIMITO	0	PF 1	1022.15	6.07	10.47	10.47	11.60	0.016446	4.70	217.34	96.22	1.00