

Table C.7.8 High Water Mark Survey Results

Section	River/Chainage	High Water Mark (m)
C-32	CHOLUTECA 18.615	916.30
C-31	CHOLUTECA 18.718	915.90
C-30	CHOLUTECA 18.817	914.40
C-29	CHOLUTECA 18.946	912.90
C-28	CHOLUTECA 19.077	911.40
C-27	CHOLUTECA 19.188	910.00
C-26	CHOLUTECA 19.303	908.50
C-25	CHOLUTECA 19.423	907.90
C-24	CHOLUTECA 19.495	906.80
C-23	CHOLUTECA 19.591	906.70
C-22	CHOLUTECA 19.696	906.90
C-21	CHOLUTECA 19.811	905.50
C-20	CHOLUTECA 19.911	905.20
C-19	CHOLUTECA 20.010	904.20
C-18	CHOLUTECA 20.117	905.60
C-17	CHOLUTECA 20.215	903.70
C-16	CHOLUTECA 20.313	903.60
C-15	CHOLUTECA 20.400	903.50
C-14	CHOLUTECA 20.505	902.40
C-13	CHOLUTECA 20.599	902.40
C-12	CHOLUTECA 20.697	902.40
C-11	CHOLUTECA 20.805	902.30
C-10	CHOLUTECA 20.878	902.30
C-9	CHOLUTECA 20.980	899.10
C-8	CHOLUTECA 21.075	899.20
C-7	CHOLUTECA 21.173	899.20
C-6	CHOLUTECA 21.277	900.30
C-5	CHOLUTECA 21.390	900.20
C-4	CHOLUTECA 21.489	900.00
C-3	CHOLUTECA 21.581	899.30
C-2	CHOLUTECA 21.681	897.00
C-1	CHOLUTECA 21.777	894.80
C-0	CHOLUTECA 21.879	895.00

Table C.7.8 High Water Mark Survey Results

Section	River/Chainage	High Water Mark (m)
CH-51	CHIQUITO 0.000	983.70
CH-50	CHIQUITO 0.203	981.50
CH-49	CHIQUITO 0.333	978.10
CH-48	CHIQUITO 0.452	977.70
CH-47	CHIQUITO 0.652	976.00
CH-46	CHIQUITO 0.843	972.50
CH-45	CHIQUITO 0.927	970.40
CH-44	CHIQUITO 1.043	969.40
CH-43	CHIQUITO 1.206	967.60
CH-42	CHIQUITO 1.340	966.90
CH-41	CHIQUITO 1.445	965.40
CH-40	CHIQUITO 1.544	965.30
CH-39	CHIQUITO 1.602	963.10
CH-38	CHIQUITO 1.767	961.30
CH-37	CHIQUITO 1.844	960.40
CH-36	CHIQUITO 1.960	959.20
CH-35	CHIQUITO 2.030	958.30
CH-34	CHIQUITO 2.102	957.40
CH-33	CHIQUITO 2.184	956.50
CH-32	CHIQUITO 2.300	955.20
CH-31	CHIQUITO 2.390	954.30
CH-30	CHIQUITO 2.512	953.10
CH-29	CHIQUITO 2.636	950.40
CH-28	CHIQUITO 2.717	950.30
CH-27	CHIQUITO 2.806	950.30
CH-26	CHIQUITO 2.929	948.50
CH-25	CHIQUITO 3.023	947.80
CH-24	CHIQUITO 3.086	947.20
CH-23	CHIQUITO 3.201	945.80
CH-22	CHIQUITO 3.302	944.30
CH-21	CHIQUITO 3.396	944.10
CH-20	CHIQUITO 3.500	941.20
CH-19	CHIQUITO 3.578	941.50
CH-18	CHIQUITO 3.700	940.20
CH-17	CHIQUITO 3.780	937.70
CH-16	CHIQUITO 3.918	937.40
CH-15	CHIQUITO 4.064	936.70
CH-14	CHIQUITO 4.129	935.00
CH-13	CHIQUITO 4.227	933.30
CH-12	CHIQUITO 4.353	931.60
CH-11	CHIQUITO 4.465	931.30
CH-10	CHIQUITO 4.610	931.00
CH-9	CHIQUITO 4.804	929.80
CH-8	CHIQUITO 5.024	929.60
CH-7	CHIQUITO 5.139	929.50
CH-6	CHIQUITO 5.178	929.30
CH-5	CHIQUITO 5.245	929.00
CH-4	CHIQUITO 5.295	931.60
CH-3	CHIQUITO 5.325	932.90
CH-2	CHIQUITO 5.465	930.70
CH-1	CHIQUITO 5.524	929.00
CH-0	CHIQUITO 5.654	928.90

Table C.7.8 High Water Mark Survey Results

Section	River/Chainage	High Water Mark (m)
ST-3	SAPO 0.000	
ST-2	SAPO 0.126	
ST-1	SAPO 0.237	
S-27	SAPO 0.596	1,001.40
S-26	SAPO 0.683	995.40
S-25	SAPO 0.780	
S-24	SAPO 0.938	984.60
S-23	SAPO 1.016	984.80
S-22	SAPO 1.020	984.60
S-21	SAPO 1.090	983.50
S-20	SAPO 1.152	981.20
S-19	SAPO 1.245	977.20
S-18	SAPO 1.384	975.20
S-17	SAPO 1.463	972.30
S-16	SAPO 1.535	969.20
S-15	SAPO 1.598	968.50
S-14	SAPO 1.694	964.00
S-13	SAPO 1.787	962.70
S-12	SAPO 1.906	958.70
S-11	SAPO 2.023	954.90
S-10	SAPO 2.084	954.10
S-9	SAPO 2.213	
S-8	SAPO 2.338	
S-7	SAPO 2.406	945.40
S-6-1	SAPO 2.468	
S-6	SAPO 2.551	
S-5	SAPO 2.640	936.90
S-4	SAPO 2.742	933.60
S-3	SAPO 2.828	
S-2	SAPO 2.965	930.10
S-1	SAPO 3.044	928.90
S-0	SAPO 3.401	926.20

Table C.7.8 High Water Mark Survey Results

Section	River/Chainage	High Water Mark (m)
G-30	GUACERIQUE 0.000	
G-29	GUACERIQUE 0.098	
G-28	GUACERIQUE 0.197	
G-27	GUACERIQUE 0.288	
G-26	GUACERIQUE 0.389	
G-25	GUACERIQUE 0.490	
G-24	GUACERIQUE 0.598	
G-23	GUACERIQUE 0.690	
G-22	GUACERIQUE 0.793	
G-21	GUACERIQUE 0.895	
G-20	GUACERIQUE 0.999	
G-19	GUACERIQUE 1.101	
G-18	GUACERIQUE 1.200	
G-17	GUACERIQUE 1.301	
G-16	GUACERIQUE 1.403	
G-15	GUACERIQUE 1.503	
G-14	GUACERIQUE 1.606	
G-13	GUACERIQUE 1.708	
G-12	GUACERIQUE 1.808	
G-11	GUACERIQUE 1.908	
G-10	GUACERIQUE 2.022	935.60
G-9	GUACERIQUE 2.095	935.20
G-8	GUACERIQUE 2.201	933.00
G-7	GUACERIQUE 2.307	933.20
G-6	GUACERIQUE 2.448	932.90
G-5	GUACERIQUE 2.593	933.00
G-4	GUACERIQUE 2.717	933.00
G-3	GUACERIQUE 2.838	932.10
G-2	GUACERIQUE 2.932	933.00
G-1	GUACERIQUE 3.044	934.00
G-0	GUACERIQUE 3.176	932.40

**Table C.7.11 (1) Water Level from Hydraulic Simulation
for the Case "Without Project"**

Section	River/Chainage	Time of Peak	Existing Sections (" <i>Without Project</i> ")					
			Water Level at each Return Period (m)					
			Mitch	5-Year	10-year	15-year	25-Year	50-year
C-200	CHOLUTECA 0.000	1998/10/30 22:01	997.21	994.46	994.93	995.17	995.44	995.77
C-199	CHOLUTECA 0.110	1998/10/30 22:03	996.39	993.87	994.29	994.51	994.76	995.07
C-198	CHOLUTECA 0.218	1998/10/30 22:04	995.80	993.23	993.63	993.83	994.08	994.38
C-197	CHOLUTECA 0.290	1998/10/30 22:04	995.10	992.69	993.05	993.24	993.45	993.73
C-196	CHOLUTECA 0.386	1998/10/30 22:07	994.13	991.68	992.01	992.18	992.38	992.66
C-195	CHOLUTECA 0.478	1998/10/30 22:09	993.36	990.52	990.93	991.14	991.40	991.73
C-194	CHOLUTECA 0.608	1998/10/30 22:09	992.94	990.10	990.50	990.71	990.97	991.30
C-193	CHOLUTECA 0.716	1998/10/30 22:09	992.33	989.57	989.95	990.15	990.39	990.71
C-192	CHOLUTECA 0.829	1998/10/30 22:11	991.77	988.83	989.23	989.45	989.71	990.05
C-191	CHOLUTECA 0.984	1998/10/30 22:12	991.33	988.17	988.62	988.86	989.14	989.51
C-190	CHOLUTECA 1.146	1998/10/30 22:13	990.92	987.48	987.97	988.24	988.57	988.99
C-189	CHOLUTECA 1.238	1998/10/30 22:14	990.51	987.07	987.56	987.83	988.16	988.59
C-188	CHOLUTECA 1.425	1998/10/30 22:15	990.05	986.44	986.97	987.27	987.62	988.08
C-187	CHOLUTECA 1.658	1998/10/30 22:18	989.28	985.64	986.23	986.55	986.92	987.40
C-186	CHOLUTECA 1.790	1998/10/30 22:19	988.60	984.76	985.37	985.69	986.06	986.53
C-185	CHOLUTECA 1.867	1998/10/30 22:19	988.60	984.68	985.29	985.60	985.97	986.43
C-184	CHOLUTECA 1.936	1998/10/30 22:19	988.32	984.44	985.02	985.32	985.66	986.11
C-183	CHOLUTECA 1.977	1998/10/30 22:19	988.40	984.46	985.05	985.35	985.71	986.18
C-182	CHOLUTECA 2.060	1998/10/30 22:19	988.25	984.39	984.97	985.27	985.63	986.09
C-181	CHOLUTECA 2.159	1998/10/30 22:20	987.49	983.98	984.51	984.78	985.11	985.52
C-180	CHOLUTECA 2.251	1998/10/30 22:20	986.29	983.05	983.54	983.78	984.07	984.45
C-179	CHOLUTECA 2.350	1998/10/30 22:25	984.91	981.68	982.16	982.42	982.71	983.10
C-178	CHOLUTECA 2.471	1998/10/30 22:27	984.48	981.02	981.57	981.84	982.15	982.56
C-177	CHOLUTECA 2.610	1998/10/30 22:29	983.57	980.26	980.83	981.08	981.37	981.76
C-176	CHOLUTECA 2.757	1998/10/30 22:30	983.20	979.25	979.89	980.24	980.64	981.16
C-175	CHOLUTECA 2.789	1998/10/30 22:30	983.16	979.00	979.71	980.09	980.54	981.08
C-174	CHOLUTECA 2.822	1998/10/30 22:31	982.69	978.65	979.34	979.70	980.14	980.68
C-173	CHOLUTECA 2.932	1998/10/30 22:32	982.31	978.06	978.76	979.13	979.56	980.10
C-172	CHOLUTECA 3.034	1998/10/30 22:33	981.78	977.54	978.24	978.60	979.02	979.55
C-171	CHOLUTECA 3.136	1998/10/30 22:34	980.77	976.90	977.55	977.88	978.26	978.74
C-170	CHOLUTECA 3.241	1998/10/30 22:34	980.89	976.75	977.41	977.76	978.17	978.69
C-169	CHOLUTECA 3.314	1998/10/30 22:34	980.39	976.33	976.98	977.32	977.71	978.20
C-168	CHOLUTECA 3.453	1998/10/30 22:36	979.56	975.60	976.23	976.56	976.96	977.43
C-167	CHOLUTECA 3.559	1998/10/30 22:37	978.49	974.88	975.45	975.76	976.12	976.53
C-166	CHOLUTECA 3.675	1998/10/30 22:39	978.05	973.88	974.50	974.84	975.24	975.76
C-165	CHOLUTECA 3.780	1998/10/30 22:39	977.87	973.09	973.88	974.29	974.74	975.34
C-164	CHOLUTECA 3.853	1998/10/30 22:39	977.63	972.80	973.65	974.08	974.55	975.15
C-163	CHOLUTECA 3.969	1998/10/30 22:39	976.78	972.22	973.07	973.48	973.92	974.48
C-162	CHOLUTECA 4.093	1998/10/30 22:41	975.68	971.07	971.84	972.25	972.73	973.34
C-161	CHOLUTECA 4.198	1998/10/30 22:43	974.65	970.64	971.40	971.78	972.22	972.78
C-160	CHOLUTECA 4.292	1998/10/30 23:02	974.05	970.17	970.91	971.28	971.71	972.24
C-159	CHOLUTECA 4.404	1998/10/30 23:03	973.51	969.69	970.54	970.95	971.38	971.83
C-158	CHOLUTECA 4.425	1998/10/30 23:01	973.42	969.60	970.43	970.77	971.17	971.67
C-157	CHOLUTECA 4.571	1998/10/30 22:49	972.62	968.90	969.57	969.89	970.27	970.75
C-156	CHOLUTECA 4.691	1998/10/30 22:51	972.19	968.49	969.17	969.49	969.86	970.34
C-155	CHOLUTECA 4.787	1998/10/30 22:52	971.90	968.29	968.94	969.23	969.59	970.02
C-154	CHOLUTECA 4.857	1998/10/30 22:52	971.66	968.08	968.73	969.03	969.39	969.83
C-153	CHOLUTECA 4.945	1998/10/30 22:54	971.06	967.73	968.35	968.62	968.94	969.34
C-152	CHOLUTECA 5.059	1998/10/30 22:54	970.83	967.28	967.93	968.24	968.61	969.05
C-151	CHOLUTECA 5.317	1998/10/30 22:55	969.36	965.71	966.43	966.80	967.19	967.65
C-150	CHOLUTECA 5.487	1998/10/30 22:58	968.58	964.80	965.58	965.97	966.36	966.83

**Table C.7.11 (1) Water Level from Hydraulic Simulation
for the Case "Without Project"**

Section	River/Chainage	Time of Peak	Existing Sections ("Without Project")						
			Water Level at each Return Period (m)						
			Mitch	5-Year	10-year	15-year	25-Year	50-year	
C-149	CHOLUTECA 5.581	1998/10/30 22:58	967.65	964.08	964.78	965.14	965.51	965.97	
C-148	CHOLUTECA 5.783	1998/10/30 22:59	964.97	961.92	962.44	962.71	963.03	963.43	
C-147	CHOLUTECA 5.905	1998/10/30 23:01	963.97	960.77	961.30	961.55	961.87	962.29	
C-146	CHOLUTECA 5.965	1998/10/30 23:02	963.40	960.23	960.76	961.02	961.34	961.75	
C-145	CHOLUTECA 6.062	1998/10/30 23:03	963.17	959.82	960.36	960.64	960.99	961.43	
C-144	CHOLUTECA 6.155	1998/10/30 23:04	962.57	959.23	959.76	960.04	960.38	960.81	
C-143	CHOLUTECA 6.231	1998/10/30 23:05	962.45	959.01	959.56	959.85	960.20	960.65	
C-142	CHOLUTECA 6.409	1998/10/30 23:09	962.18	958.51	959.10	959.41	959.78	960.25	
C-141	CHOLUTECA 6.502	1998/10/30 23:09	962.11	958.42	959.02	959.33	959.72	960.19	
C-140	CHOLUTECA 6.600	1998/10/30 23:09	961.62	958.06	958.63	958.94	959.31	959.77	
C-139	CHOLUTECA 6.705	1998/10/30 23:10	961.51	957.95	958.53	958.84	959.21	959.67	
C-138	CHOLUTECA 6.762	1998/10/30 23:11	960.80	957.56	958.08	958.36	958.69	959.11	
C-137	CHOLUTECA 6.870	1998/10/30 23:11	960.32	957.05	957.56	957.84	958.17	958.60	
C-136	CHOLUTECA 6.976	1998/10/30 23:12	959.61	956.59	957.06	957.32	957.62	958.02	
C-135	CHOLUTECA 7.078	1998/10/30 23:12	958.54	955.82	956.23	956.45	956.72	957.07	
C-134	CHOLUTECA 7.183	1998/10/30 23:13	957.31	954.41	954.85	955.11	955.41	955.80	
C-133	CHOLUTECA 7.291	1998/10/30 23:13	956.86	953.77	954.26	954.53	954.86	955.27	
C-132	CHOLUTECA 7.399	1998/10/30 23:13	956.50	953.09	953.71	954.04	954.41	954.86	
C-131	CHOLUTECA 7.505	1998/10/30 23:13	956.58	953.07	953.71	954.05	954.44	954.90	
C-130	CHOLUTECA 7.605	1998/10/30 23:14	956.56	953.05	953.70	954.04	954.42	954.88	
C-129	CHOLUTECA 7.679	1998/10/30 23:13	956.56	953.05	953.69	954.03	954.41	954.88	
C-128	CHOLUTECA 7.709	1998/10/30 23:14	956.55	953.05	953.69	954.03	954.41	954.88	
C-127	CHOLUTECA 7.869	1998/10/30 23:14	956.45	953.00	953.64	953.98	954.35	954.81	
C-126	CHOLUTECA 8.047	1998/10/30 23:17	955.76	952.63	953.23	953.54	953.89	954.30	
C-125	CHOLUTECA 8.149	1998/10/30 23:19	955.45	952.23	952.79	953.10	953.48	953.92	
C-124	CHOLUTECA 8.258	1998/10/30 23:19	955.22	951.85	952.45	952.77	953.17	953.62	
C-123	CHOLUTECA 8.413	1998/10/30 23:21	954.63	951.26	951.85	952.17	952.56	953.04	
C-122	CHOLUTECA 8.525	1998/10/30 23:22	954.21	950.74	951.30	951.64	952.06	952.56	
C-121	CHOLUTECA 8.638	1998/10/30 23:22	953.93	950.09	950.86	951.26	951.72	952.26	
C-120	CHOLUTECA 8.755	1998/10/30 23:23	953.53	949.69	950.43	950.82	951.29	951.85	
C-119	CHOLUTECA 8.824	1998/10/30 23:24	952.95	949.19	949.86	950.21	950.63	951.18	
C-118	CHOLUTECA 8.935	1998/10/30 23:25	951.75	948.27	948.86	949.17	949.55	950.03	
C-117	CHOLUTECA 9.083	1998/10/30 23:27	950.31	947.08	947.62	947.92	948.27	948.73	
C-116	CHOLUTECA 9.208	1998/10/30 23:28	950.17	946.74	947.30	947.62	947.99	948.48	
C-115	CHOLUTECA 9.377	1998/10/30 23:28	950.07	946.41	947.02	947.36	947.76	948.29	
C-114	CHOLUTECA 9.512	1998/10/31 2:11	949.78	945.95	946.59	946.95	947.38	947.94	
C-113	CHOLUTECA 9.600	1998/10/31 2:12	949.62	945.70	946.38	946.75	947.20	947.77	
C-112	CHOLUTECA 9.711	1998/10/31 2:14	949.33	945.29	946.02	946.41	946.88	947.46	
C-111	CHOLUTECA 9.797	1998/10/31 2:14	949.32	945.22	945.97	946.37	946.84	947.43	
C-110	CHOLUTECA 9.906	1998/10/31 2:14	949.16	945.06	945.81	946.21	946.68	947.27	
C-109	CHOLUTECA 10.005	1998/10/31 2:14	948.96	944.88	945.64	946.04	946.51	947.10	
C-108	CHOLUTECA 10.118	1998/10/31 2:15	948.51	944.49	945.24	945.63	946.09	946.66	
C-107	CHOLUTECA 10.178	1998/10/31 2:15	948.58	944.49	945.26	945.66	946.13	946.72	
C-106	CHOLUTECA 10.320	1998/10/31 2:16	947.98	944.07	944.81	945.20	945.65	946.21	
C-105	CHOLUTECA 10.421	1998/10/31 2:16	947.91	943.91	944.67	945.07	945.53	946.11	
C-104	CHOLUTECA 10.526	1998/10/31 2:17	947.90	943.78	944.56	944.96	945.45	946.04	
C-103	CHOLUTECA 10.621	1998/10/31 2:17	947.36	943.46	944.21	944.59	945.05	945.62	
C-102	CHOLUTECA 10.756	1998/10/31 2:18	946.02	942.42	943.10	943.45	943.88	944.41	
C-101	CHOLUTECA 10.878	1998/10/31 2:18	944.57	941.18	941.85	942.19	942.60	943.09	
C-100	CHOLUTECA 10.940	1998/10/31 2:19	944.55	940.97	941.64	942.00	942.41	942.91	
C-99	CHOLUTECA 11.044	1998/10/31 2:19	944.43	940.53	941.23	941.59	942.02	942.57	

**Table C.7.11 (1) Water Level from Hydraulic Simulation
for the Case "Without Project"**

Section	River/Chainage	Time of Peak	Existing Sections (" <i>Without Project</i> ")						
			Water Level at each Return Period (m)						
			Mitch	5-Year	10-year	15-year	25-Year	50-year	
C-98	CHOLUTECA 11.130	1998/10/31 2:19	944.24	940.23	940.97	941.35	941.80	942.37	
C-97	CHOLUTECA 11.251	1998/10/31 2:19	944.03	940.02	940.77	941.15	941.60	942.16	
C-96	CHOLUTECA 11.402	1998/10/31 2:19	943.83	939.77	940.54	940.92	941.38	941.95	
C-95	CHOLUTECA 11.541	1998/10/31 2:19	943.09	939.10	939.86	940.25	940.70	941.26	
C-94	CHOLUTECA 11.659	1998/10/31 2:19	943.00	938.89	939.67	940.07	940.55	941.12	
C-93	CHOLUTECA 11.769	1998/10/31 2:19	941.96	938.14	938.86	939.23	939.67	940.20	
C-92	CHOLUTECA 11.907	1998/10/31 2:19	941.67	937.92	938.64	939.02	939.45	939.97	
C-91	CHOLUTECA 12.071	1998/10/31 2:18	940.60	937.21	937.86	938.19	938.59	939.04	
C-90	CHOLUTECA 12.169	1998/10/31 2:17	939.47	936.20	936.81	937.12	937.50	937.94	
C-89	CHOLUTECA 12.264	1998/10/31 2:19	938.67	935.52	936.08	936.37	936.72	937.16	
C-88	CHOLUTECA 12.361	1998/10/31 2:19	937.82	934.73	935.23	935.50	935.83	936.26	
C-87	CHOLUTECA 12.457	1998/10/31 2:20	937.91	934.13	934.80	935.14	935.57	936.09	
C-86	CHOLUTECA 12.551	1998/10/31 2:21	937.89	934.06	934.73	935.09	935.52	936.05	
C-85	CHOLUTECA 12.646	1998/10/31 2:21	937.84	933.99	934.67	935.03	935.46	935.99	
C-84	CHOLUTECA 12.742	1998/10/31 2:22	937.82	933.96	934.63	934.99	935.43	935.96	
C-83	CHOLUTECA 12.849	1998/10/31 2:22	937.80	933.93	934.61	934.97	935.41	935.94	
C-82	CHOLUTECA 12.937	1998/10/31 2:22	937.77	933.90	934.58	934.94	935.38	935.91	
C-81	CHOLUTECA 13.040	1998/10/31 2:22	937.75	933.88	934.56	934.92	935.36	935.89	
C-80	CHOLUTECA 13.160	1998/10/31 2:21	937.37	933.65	934.30	934.64	935.06	935.57	
C-79	CHOLUTECA 13.254	1998/10/31 2:21	936.67	933.03	933.64	933.98	934.40	934.89	
C-78	CHOLUTECA 13.356	1998/10/31 2:21	936.48	932.82	933.41	933.75	934.18	934.68	
C-77	CHOLUTECA 13.479	1998/10/31 2:19	935.31	931.99	932.50	932.80	933.19	933.63	
C-76	CHOLUTECA 13.587	1998/10/31 2:18	935.24	931.45	932.07	932.45	932.91	933.40	
C-75	CHOLUTECA 13.730	1998/10/31 2:16	935.15	931.02	931.59	931.95	932.40	933.05	
C-74	CHOLUTECA 13.839	1998/10/31 2:13	935.11	930.40	931.29	931.75	932.29	932.97	
C-73	CHOLUTECA 13.959	1998/10/31 2:11	935.15	930.45	931.35	931.80	932.33	933.01	
C-72	CHOLUTECA 14.101	1998/10/31 2:10	934.91	930.27	931.17	931.62	932.15	932.81	
C-71	CHOLUTECA 14.239	1998/10/31 2:04	934.34	929.89	930.77	931.20	931.71	932.35	
C-70	CHOLUTECA 14.349	1998/10/31 1:54	933.53	929.24	930.04	930.48	930.98	931.61	
C-69	CHOLUTECA 14.461	1998/10/31 1:44	932.82	928.54	929.33	929.74	930.23	930.86	
C-68	CHOLUTECA 14.567	1998/10/31 1:44	932.79	928.39	929.22	929.65	930.16	930.80	
C-67	CHOLUTECA 14.764	1998/10/31 1:40	932.14	927.80	928.61	929.03	929.52	930.13	
C-66	CHOLUTECA 14.936	1998/10/31 1:45	931.98	927.55	928.38	928.81	929.31	929.95	
C-65	CHOLUTECA 15.084	1998/10/31 1:45	930.79	926.60	927.37	927.77	928.24	928.84	
C-64	CHOLUTECA 15.262	1998/10/31 1:48	929.99	925.72	926.55	926.98	927.47	928.09	
C-63	CHOLUTECA 15.352	1998/10/31 1:49	929.78	925.57	926.37	926.79	927.28	927.91	
C-62	CHOLUTECA 15.416	1998/10/31 1:51	929.37	925.39	926.18	926.58	927.05	927.63	
C-61	CHOLUTECA 15.563	1998/10/31 1:53	929.15	925.10	925.87	926.26	926.71	927.28	
C-60	CHOLUTECA 15.636	1998/10/31 1:53	929.02	924.89	925.67	926.07	926.53	927.11	
C-59	CHOLUTECA 15.816	1998/10/31 1:53	928.68	924.50	925.28	925.69	926.16	926.75	
C-58	CHOLUTECA 15.951	1998/10/31 1:54	928.43	924.18	924.97	925.38	925.86	926.47	
C-57	CHOLUTECA 15.992	1998/10/31 1:54	928.38	924.16	924.94	925.36	925.83	926.43	
C-56	CHOLUTECA 16.137	1998/10/31 1:54	928.18	923.98	924.76	925.16	925.64	926.24	
C-55	CHOLUTECA 16.300	1998/10/31 1:54	927.90	923.75	924.51	924.91	925.39	925.98	
C-54	CHOLUTECA 16.379	1998/10/31 1:54	927.90	923.71	924.48	924.89	925.36	925.96	
C-53	CHOLUTECA 16.454	1998/10/31 1:53	927.73	923.60	924.36	924.76	925.22	925.82	
C-52	CHOLUTECA 16.550	1998/10/31 1:54	927.64	923.52	924.28	924.68	925.15	925.74	
C-51	CHOLUTECA 16.689	1998/10/31 1:53	927.11	923.16	923.88	924.26	924.71	925.28	
C-50	CHOLUTECA 16.826	1998/10/31 1:53	926.35	922.62	923.31	923.67	924.09	924.62	
C-49	CHOLUTECA 16.927	1998/10/31 1:53	925.17	921.77	922.40	922.72	923.11	923.60	
C-48	CHOLUTECA 17.037	1998/10/31 1:53	923.56	920.31	920.92	921.23	921.59	922.06	

**Table C.7.11 (1) Water Level from Hydraulic Simulation
for the Case "Without Project"**

Section	River/Chainage	Time of Peak	Existing Sections (" <i>Without Project</i> ")						
			Water Level at each Return Period (m)						
			Mitch	5-Year	10-year	15-year	25-Year	50-year	
C-47	CHOLUTECA 17.135	1998/10/31 1:54	923.33	920.05	920.69	920.99	921.35	921.79	
C-46	CHOLUTECA 17.275	1998/10/31 1:54	922.40	919.35	919.94	920.22	920.55	920.95	
C-45	CHOLUTECA 17.384	1998/10/31 1:55	922.24	918.95	919.60	919.89	920.24	920.68	
C-44	CHOLUTECA 17.472	1998/10/31 1:56	921.69	918.70	919.31	919.58	919.89	920.30	
C-43	CHOLUTECA 17.583	1998/10/31 1:56	921.01	918.19	918.79	919.04	919.33	919.70	
C-42	CHOLUTECA 17.689	1998/10/31 1:57	920.39	917.56	918.15	918.38	918.66	919.02	
C-41	CHOLUTECA 17.754	1998/10/31 1:57	919.92	916.95	917.55	917.81	918.10	918.48	
C-40	CHOLUTECA 17.867	1998/10/31 1:58	918.84	915.68	916.27	916.55	916.88	917.31	
C-39	CHOLUTECA 17.967	1998/10/31 1:58	918.43	915.10	915.71	916.02	916.38	916.84	
C-38	CHOLUTECA 18.061	1998/10/31 1:59	917.41	914.14	914.71	915.01	915.37	915.81	
C-37	CHOLUTECA 18.098	1998/10/31 1:59	917.71	914.25	914.86	915.18	915.56	916.03	
C-36	CHOLUTECA 18.113	1998/10/31 1:59	917.60	914.21	914.82	915.14	915.51	915.97	
C-35	CHOLUTECA 18.221	1998/10/31 1:59	916.77	913.49	914.08	914.39	914.75	915.19	
C-34	CHOLUTECA 18.406	1998/10/31 1:59	915.27	911.80	912.41	912.74	913.12	913.61	
C-33	CHOLUTECA 18.515	1998/10/31 2:00	914.77	911.11	911.75	912.09	912.49	913.01	
C-32	CHOLUTECA 18.615	1998/10/31 2:00	914.09	910.68	911.27	911.58	911.95	912.43	
C-31	CHOLUTECA 18.718	1998/10/31 2:01	913.32	910.19	910.73	911.02	911.37	911.81	
C-30	CHOLUTECA 18.817	1998/10/31 2:01	912.87	909.48	910.06	910.37	910.75	911.23	
C-29	CHOLUTECA 18.946	1998/10/31 2:02	911.58	908.25	908.83	909.14	909.50	909.97	
C-28	CHOLUTECA 19.077	1998/10/31 2:02	909.71	906.62	907.14	907.42	907.75	908.18	
C-27	CHOLUTECA 19.188	1998/10/31 2:02	909.27	906.08	906.62	906.91	907.26	907.71	
C-26	CHOLUTECA 19.303	1998/10/31 2:02	908.84	905.64	906.20	906.50	906.85	907.30	
C-25	CHOLUTECA 19.423	1998/10/31 2:03	908.62	905.39	905.96	906.26	906.62	907.07	
C-24	CHOLUTECA 19.495	1998/10/31 2:03	908.33	905.18	905.74	906.03	906.38	906.82	
C-23	CHOLUTECA 19.591	1998/10/31 2:03	907.37	904.47	904.98	905.26	905.58	905.98	
C-22	CHOLUTECA 19.696	1998/10/31 2:04	907.18	904.11	904.67	904.96	905.30	905.72	
C-21	CHOLUTECA 19.811	1998/10/31 2:04	907.04	903.94	904.50	904.80	905.14	905.57	
C-20	CHOLUTECA 19.911	1998/10/31 2:04	907.09	903.94	904.50	904.80	905.15	905.59	
C-19	CHOLUTECA 20.010	1998/10/31 2:04	907.04	903.90	904.46	904.76	905.10	905.54	
C-18	CHOLUTECA 20.117	1998/10/31 2:04	906.53	903.57	904.10	904.37	904.70	905.12	
C-17	CHOLUTECA 20.215	1998/10/31 2:05	905.81	902.96	903.47	903.74	904.05	904.44	
C-16	CHOLUTECA 20.313	1998/10/31 2:06	905.19	902.37	902.84	903.09	903.39	903.78	
C-15	CHOLUTECA 20.400	1998/10/31 2:06	904.87	901.94	902.43	902.69	903.00	903.41	
C-14	CHOLUTECA 20.505	1998/10/31 2:07	903.80	901.14	901.55	901.77	902.04	902.41	
C-13	CHOLUTECA 20.599	1998/10/31 2:07	903.51	900.48	900.95	901.20	901.52	901.94	
C-12	CHOLUTECA 20.697	1998/10/31 2:08	903.31	900.00	900.55	900.84	901.20	901.66	
C-11	CHOLUTECA 20.805	1998/10/31 2:08	903.04	899.60	900.19	900.50	900.87	901.35	
C-10	CHOLUTECA 20.878	1998/10/31 2:08	902.64	899.24	899.83	900.14	900.51	900.98	
C-9	CHOLUTECA 20.980	1998/10/31 2:08	901.60	898.47	899.01	899.29	899.63	900.07	
C-8	CHOLUTECA 21.075	1998/10/31 2:09	900.95	897.80	898.34	898.62	898.96	899.40	
C-7	CHOLUTECA 21.173	1998/10/31 2:09	900.40	897.20	897.75	898.04	898.39	898.83	
C-6	CHOLUTECA 21.277	1998/10/31 2:09	900.22	896.87	897.45	897.76	898.12	898.58	
C-5	CHOLUTECA 21.390	1998/10/31 2:09	899.62	896.35	896.92	897.22	897.58	898.02	
C-4	CHOLUTECA 21.489	1998/10/31 2:09	898.86	895.71	896.27	896.56	896.91	897.32	
C-3	CHOLUTECA 21.581	1998/10/31 2:09	897.83	894.81	895.35	895.63	895.97	896.36	
C-2	CHOLUTECA 21.681	1998/10/31 2:09	896.86	893.83	894.32	894.57	894.87	895.24	
C-1	CHOLUTECA 21.777	1998/10/31 2:03	896.13	892.52	892.99	893.24	893.56	894.00	
C-0	CHOLUTECA 21.879	1998/10/29 7:56	894.88	890.13	890.80	891.17	891.63	892.26	

**Table C.7.11 (1) Water Level from Hydraulic Simulation
for the Case "Without Project"**

Section	River/Chainage	Time of Peak	Existing Sections (" <i>Without Project</i> ")						
			Water Level at each Return Period (m)						
			Mitch	5-Year	10-year	15-year	25-Year	50-year	
CH-51	CHIQUITO 0.000	1998/10/31 1:00	983.90	981.58	982.00	982.22	982.48	982.81	
CH-50	CHIQUITO 0.203	1998/10/31 1:00	980.75	978.88	979.21	979.39	979.59	979.86	
CH-49	CHIQUITO 0.333	1998/10/31 1:01	978.25	976.53	976.83	976.98	977.18	977.42	
CH-48	CHIQUITO 0.452	1998/10/31 1:02	977.30	975.47	975.78	975.95	976.16	976.42	
CH-47	CHIQUITO 0.652	1998/10/31 1:02	975.95	973.83	974.20	974.40	974.64	974.94	
CH-46	CHIQUITO 0.843	1998/10/31 1:03	972.39	970.76	971.05	971.20	971.39	971.62	
CH-45	CHIQUITO 0.927	1998/10/31 1:03	971.51	969.89	970.18	970.33	970.52	970.76	
CH-44	CHIQUITO 1.043	1998/10/31 1:04	970.03	968.37	968.67	968.84	969.04	969.29	
CH-43	CHIQUITO 1.206	1998/10/31 1:04	967.51	965.42	965.77	965.97	966.20	966.50	
CH-42	CHIQUITO 1.340	1998/10/31 1:04	966.47	964.30	964.69	964.90	965.14	965.46	
CH-41	CHIQUITO 1.445	1998/10/31 1:04	965.20	963.21	963.56	963.75	963.98	964.27	
CH-40	CHIQUITO 1.544	1998/10/31 1:05	963.24	961.36	961.68	961.86	962.07	962.34	
CH-39	CHIQUITO 1.602	1998/10/31 1:05	962.40	960.32	960.68	960.87	961.11	961.40	
CH-38	CHIQUITO 1.767	1998/10/31 1:06	960.90	958.79	959.16	959.36	959.60	959.90	
CH-37	CHIQUITO 1.844	1998/10/31 1:06	960.22	958.13	958.50	958.70	958.93	959.23	
CH-36	CHIQUITO 1.960	1998/10/31 1:06	958.85	956.78	957.15	957.34	957.57	957.87	
CH-35	CHIQUITO 2.030	1998/10/31 1:07	957.76	955.94	956.26	956.44	956.64	956.90	
CH-34	CHIQUITO 2.102	1998/10/31 1:07	956.91	955.29	955.57	955.72	955.90	956.13	
CH-33	CHIQUITO 2.184	1998/10/31 1:08	955.53	953.92	954.19	954.34	954.52	954.75	
CH-32	CHIQUITO 2.300	1998/10/31 1:08	954.47	952.70	953.01	953.18	953.38	953.65	
CH-31	CHIQUITO 2.390	1998/10/31 1:09	953.55	951.62	951.97	952.16	952.38	952.68	
CH-30	CHIQUITO 2.512	1998/10/31 1:09	952.26	950.09	950.45	950.65	950.89	951.21	
CH-29	CHIQUITO 2.636	1998/10/31 1:09	951.12	948.75	949.18	949.41	949.69	950.04	
CH-28	CHIQUITO 2.717	1998/10/31 1:09	950.51	948.08	948.53	948.76	949.04	949.40	
CH-27	CHIQUITO 2.806	1998/10/31 1:10	949.45	947.13	947.55	947.77	948.03	948.37	
CH-26	CHIQUITO 2.929	1998/10/31 1:10	947.49	945.55	945.91	946.10	946.32	946.60	
CH-25	CHIQUITO 3.023	1998/10/31 1:11	946.53	944.74	945.09	945.27	945.48	945.72	
CH-24	CHIQUITO 3.086	1998/10/31 1:11	945.70	943.96	944.30	944.47	944.68	944.91	
CH-23	CHIQUITO 3.201	1998/10/31 1:12	944.65	942.68	943.02	943.21	943.43	943.72	
CH-22	CHIQUITO 3.302	1998/10/31 1:12	943.99	942.01	942.36	942.55	942.78	943.06	
CH-21	CHIQUITO 3.396	1998/10/31 1:13	943.10	941.27	941.60	941.78	941.99	942.25	
CH-20	CHIQUITO 3.500	1998/10/31 1:14	942.15	940.28	940.65	940.85	941.08	941.34	
CH-19	CHIQUITO 3.578	1998/10/31 1:14	941.15	939.33	939.70	939.89	940.12	940.37	
CH-18	CHIQUITO 3.700	1998/10/31 1:14	939.17	937.72	938.00	938.14	938.31	938.52	
CH-17	CHIQUITO 3.780	1998/10/31 1:16	938.02	936.73	936.94	937.06	937.20	937.40	
CH-16	CHIQUITO 3.918	1998/10/31 1:17	937.26	935.57	935.82	935.96	936.14	936.38	
CH-15	CHIQUITO 4.064	1998/10/31 1:18	936.34	934.19	934.55	934.75	935.00	935.30	
CH-14	CHIQUITO 4.129	1998/10/31 1:18	935.66	933.31	933.73	933.96	934.24	934.57	
CH-13	CHIQUITO 4.227	1998/10/31 1:19	934.57	932.28	932.72	932.95	933.23	933.54	
CH-12	CHIQUITO 4.353	1998/10/31 1:19	932.90	930.53	930.97	931.20	931.48	931.79	
CH-11	CHIQUITO 4.465	1998/10/31 1:21	931.91	929.38	929.84	930.08	930.37	930.74	
CH-10	CHIQUITO 4.610	1998/10/31 1:24	930.72	928.28	928.72	928.94	929.20	929.54	
CH-9	CHIQUITO 4.804	1998/10/31 2:16	930.10	927.72	928.13	928.33	928.58	928.90	
CH-8	CHIQUITO 5.024	1998/10/31 2:06	929.07	926.99	927.32	927.47	927.68	927.97	
CH-7	CHIQUITO 5.139	1998/10/31 2:12	928.25	925.58	925.94	926.17	926.43	926.74	
CH-6	CHIQUITO 5.178	1998/10/31 2:21	928.27	925.33	925.83	926.10	926.38	926.71	
CH-5	CHIQUITO 5.245	1998/10/31 2:09	928.21	924.89	925.43	925.73	926.03	926.50	
CH-4	CHIQUITO 5.295	1998/10/31 2:09	928.09	924.41	924.86	925.17	925.69	926.29	
CH-3	CHIQUITO 5.325	1998/10/31 2:18	928.06	924.44	924.92	925.24	925.65	926.18	
CH-2	CHIQUITO 5.465	1998/10/31 1:49	927.87	923.77	924.51	924.91	925.37	925.95	
CH-1	CHIQUITO 5.524	1998/10/31 2:04	927.57	923.59	924.32	924.70	925.16	925.73	

**Table C.7.11 (1) Water Level from Hydraulic Simulation
for the Case "Without Project"**

Section	River/Chainage	Time of Peak	Existing Sections (" <i>Without Project</i> ")					
			Water Level at each Return Period (m)					
			Mitch	5-Year	10-year	15-year	25-Year	50-year
CH-0	CHIQUITO 5.654	1998/10/31 1:54	927.64	923.52	924.28	924.68	925.15	925.74
ST-3	SAPO 0.000	1998/10/31 2:09	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
ST-2	SAPO 0.126	1998/10/31 2:09	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
ST-1	SAPO 0.237	1998/10/31 2:10	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
S-27	SAPO 0.596	1998/10/31 2:09	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
S-26	SAPO 0.683	1998/10/31 2:10	994.70	994.02	994.20	994.30	994.37	994.44
S-25	SAPO 0.780	1998/10/31 2:10	990.40	989.81	990.01	990.12	990.19	990.23
S-24	SAPO 0.938	1998/10/31 2:15	985.38	984.73	984.95	985.05	985.12	985.18
S-23	SAPO 1.016	1998/10/31 2:16	984.07	983.37	983.60	983.70	983.77	983.83
S-22	SAPO 1.020	1998/10/31 2:15	983.99	983.30	983.52	983.62	983.69	983.75
S-21	SAPO 1.090	1998/10/31 2:15	982.49	981.88	982.03	982.11	982.17	982.24
S-20	SAPO 1.152	1998/10/31 2:16	979.99	979.16	979.36	979.48	979.56	979.65
S-19	SAPO 1.245	1998/10/31 2:17	977.66	976.52	976.84	977.00	977.12	977.25
S-18	SAPO 1.384	1998/10/31 2:16	973.71	972.91	973.12	973.23	973.31	973.39
S-17	SAPO 1.463	1998/10/31 2:17	970.46	969.86	970.06	970.13	970.18	970.24
S-16	SAPO 1.535	1998/10/31 2:18	967.90	967.32	967.47	967.55	967.60	967.67
S-15	SAPO 1.598	1998/10/31 2:21	965.94	965.32	965.47	965.56	965.62	965.69
S-14	SAPO 1.694	1998/10/31 2:21	963.38	962.68	962.86	962.96	963.02	963.10
S-13	SAPO 1.787	1998/10/31 2:23	960.63	960.05	960.19	960.27	960.32	960.39
S-12	SAPO 1.906	1998/10/31 2:24	957.19	956.43	956.63	956.73	956.80	956.89
S-11	SAPO 2.023	1998/10/31 2:24	954.62	953.85	954.08	954.18	954.25	954.33
S-10	SAPO 2.084	1998/10/31 2:24	953.31	952.62	952.79	952.89	952.95	953.03
S-9	SAPO 2.213	1998/10/31 2:25	948.07	947.01	947.29	947.43	947.53	947.65
S-8	SAPO 2.338	1998/10/31 2:25	946.92	946.12	946.31	946.41	946.48	946.57
S-7	SAPO 2.406	1998/10/31 2:26	945.11	943.39	943.84	944.07	944.24	944.43
S-6-1	SAPO 2.468	1998/10/31 2:26	940.91	939.79	940.08	940.23	940.34	940.46
S-6	SAPO 2.551	1998/10/31 2:26	938.10	937.06	937.33	937.47	937.58	937.70
S-5	SAPO 2.640	1998/10/31 2:27	934.80	933.74	934.05	934.22	934.34	934.48
S-4	SAPO 2.742	1998/10/31 2:26	932.00	930.72	931.06	931.25	931.38	931.53
S-3	SAPO 2.828	1998/10/31 2:43	929.85	928.96	929.16	929.27	929.35	929.46
S-2	SAPO 2.965	1998/10/31 2:01	928.37	927.56	927.70	927.78	927.84	927.92
S-1	SAPO 3.044	1998/10/31 1:53	927.74	923.60	924.36	924.76	925.22	925.82
S-0	SAPO 3.401	1998/10/31 1:53	927.73	923.60	924.36	924.76	925.22	925.82

**Table C.7.11 (1) Water Level from Hydraulic Simulation
for the Case "Without Project"**

Section	River/Chainage	Time of Peak	Existing Sections (" <i>Without Project</i> ")						
			Water Level at each Return Period (m)						
			Mitch	5-Year	10-year	15-year	25-Year	50-year	
G-30	GUACERIQUE 0.000	1998/10/31 1:00	950.80	948.80	949.17	949.36	949.59	949.88	
G-29	GUACERIQUE 0.098	1998/10/31 1:00	950.16	948.24	948.59	948.78	949.00	949.27	
G-28	GUACERIQUE 0.197	1998/10/31 1:01	949.28	947.34	947.68	947.87	948.08	948.36	
G-27	GUACERIQUE 0.288	1998/10/31 1:01	948.84	946.68	947.07	947.28	947.53	947.84	
G-26	GUACERIQUE 0.389	1998/10/31 1:01	948.07	946.11	946.47	946.66	946.89	947.17	
G-25	GUACERIQUE 0.490	1998/10/31 1:01	946.61	944.87	945.18	945.34	945.54	945.79	
G-24	GUACERIQUE 0.598	1998/10/31 1:02	944.66	943.03	943.31	943.46	943.64	943.87	
G-23	GUACERIQUE 0.690	1998/10/31 1:02	943.69	941.86	942.15	942.32	942.52	942.78	
G-22	GUACERIQUE 0.793	1998/10/31 1:03	942.69	940.60	940.97	941.16	941.40	941.69	
G-21	GUACERIQUE 0.895	1998/10/31 1:04	941.75	939.72	940.07	940.25	940.48	940.77	
G-20	GUACERIQUE 0.999	1998/10/31 1:04	941.00	938.84	939.22	939.43	939.67	939.97	
G-19	GUACERIQUE 1.101	1998/10/31 1:04	940.17	938.30	938.62	938.79	939.00	939.26	
G-18	GUACERIQUE 1.200	1998/10/31 1:04	939.50	937.40	937.74	937.92	938.15	938.46	
G-17	GUACERIQUE 1.301	1998/10/31 1:05	938.58	936.30	936.68	936.90	937.15	937.48	
G-16	GUACERIQUE 1.403	1998/10/31 1:06	937.73	935.24	935.62	935.84	936.10	936.46	
G-15	GUACERIQUE 1.503	1998/10/31 1:07	937.37	934.14	934.66	934.96	935.33	935.80	
G-14	GUACERIQUE 1.606	1998/10/31 1:09	937.18	933.63	934.22	934.56	934.97	935.51	
G-13	GUACERIQUE 1.708	1998/10/31 1:09	937.16	933.34	934.03	934.41	934.87	935.43	
G-12	GUACERIQUE 1.808	1998/10/31 1:09	937.10	933.17	933.91	934.30	934.77	935.35	
G-11	GUACERIQUE 1.908	1998/10/31 1:09	936.73	932.85	933.58	933.97	934.43	935.00	
G-10	GUACERIQUE 2.022	1998/10/31 1:12	936.17	932.30	933.09	933.49	933.96	934.52	
G-9	GUACERIQUE 2.095	1998/10/31 1:13	934.31	930.33	931.02	931.41	931.87	932.45	
G-8	GUACERIQUE 2.201	1998/10/31 1:16	933.08	929.09	929.87	930.28	930.78	931.36	
G-7	GUACERIQUE 2.307	1998/10/31 1:17	933.13	928.99	929.81	930.24	930.75	931.36	
G-6	GUACERIQUE 2.448	1998/10/31 1:23	932.83	928.67	929.51	929.95	930.47	931.07	
G-5	GUACERIQUE 2.593	1998/10/31 1:29	932.60	928.52	929.36	929.80	930.31	930.90	
G-4	GUACERIQUE 2.717	1998/10/31 1:39	932.38	928.35	929.20	929.63	930.15	930.73	
G-3	GUACERIQUE 2.838	1998/10/31 1:38	932.44	928.32	929.18	929.62	930.14	930.74	
G-2	GUACERIQUE 2.932	1998/10/31 1:37	932.26	928.14	928.97	929.41	929.92	930.54	
G-1	GUACERIQUE 3.044	1998/10/31 1:44	932.01	927.72	928.50	928.90	929.37	929.97	
G-0	GUACERIQUE 3.176	1998/10/31 1:40	932.14	927.80	928.61	929.03	929.52	930.13	

**Table C.7.11 (2) Water Level from Hydraulic Simulation
for the Case "With Project" in Master Plan**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") in Master Plan					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
C-200	CHOLUTECA 0.000	996.69	994.46	994.93	995.17	995.44	995.77
C-199	CHOLUTECA 0.110	995.93	993.87	994.29	994.51	994.76	995.07
C-198	CHOLUTECA 0.218	995.32	993.23	993.63	993.83	994.08	994.38
C-197	CHOLUTECA 0.290	994.62	992.69	993.05	993.24	993.45	993.73
C-196	CHOLUTECA 0.386	993.61	991.68	992.01	992.18	992.38	992.66
C-195	CHOLUTECA 0.478	992.79	990.52	990.93	991.14	991.40	991.73
C-194	CHOLUTECA 0.608	992.37	990.10	990.50	990.71	990.97	991.30
C-193	CHOLUTECA 0.716	991.78	989.57	989.95	990.15	990.39	990.71
C-192	CHOLUTECA 0.829	991.20	988.83	989.23	989.45	989.71	990.05
C-191	CHOLUTECA 0.984	990.74	988.17	988.62	988.86	989.14	989.51
C-190	CHOLUTECA 1.146	990.31	987.48	987.97	988.24	988.57	988.99
C-189	CHOLUTECA 1.238	989.90	987.07	987.56	987.83	988.16	988.59
C-188	CHOLUTECA 1.425	989.43	986.44	986.97	987.27	987.62	988.08
C-187	CHOLUTECA 1.658	988.69	985.64	986.23	986.55	986.92	987.40
C-186	CHOLUTECA 1.790	987.95	984.76	985.37	985.69	986.06	986.53
C-185	CHOLUTECA 1.867	987.92	984.68	985.29	985.60	985.97	986.43
C-184	CHOLUTECA 1.936	987.64	984.44	985.02	985.32	985.66	986.11
C-183	CHOLUTECA 1.977	987.72	984.46	985.05	985.35	985.71	986.18
C-182	CHOLUTECA 2.060	987.59	984.39	984.97	985.27	985.63	986.09
C-181	CHOLUTECA 2.159	986.89	983.98	984.51	984.78	985.11	985.52
C-180	CHOLUTECA 2.251	985.72	983.05	983.54	983.78	984.07	984.45
C-179	CHOLUTECA 2.350	984.39	981.68	982.16	982.42	982.71	983.10
C-178	CHOLUTECA 2.471	983.94	981.02	981.57	981.84	982.15	982.56
C-177	CHOLUTECA 2.610	983.06	980.26	980.83	981.08	981.37	981.76
C-176	CHOLUTECA 2.757	982.64	979.25	979.89	980.24	980.64	981.16
C-175	CHOLUTECA 2.789	982.59	979.00	979.71	980.09	980.54	981.08
C-174	CHOLUTECA 2.822	982.16	978.65	979.34	979.70	980.14	980.68
C-173	CHOLUTECA 2.932	981.74	978.06	978.76	979.13	979.56	980.10
C-172	CHOLUTECA 3.034	981.22	977.54	978.24	978.60	979.02	979.55
C-171	CHOLUTECA 3.136	980.24	976.90	977.55	977.88	978.26	978.74
C-170	CHOLUTECA 3.241	980.31	976.75	977.41	977.76	978.17	978.69
C-169	CHOLUTECA 3.314	979.82	976.33	976.98	977.32	977.71	978.20
C-168	CHOLUTECA 3.453	979.01	975.60	976.23	976.56	976.96	977.43
C-167	CHOLUTECA 3.559	977.96	974.88	975.45	975.76	976.12	976.53
C-166	CHOLUTECA 3.675	977.46	973.88	974.50	974.84	975.24	975.76
C-165	CHOLUTECA 3.780	977.25	973.09	973.88	974.29	974.74	975.34
C-164	CHOLUTECA 3.853	977.03	972.80	973.65	974.08	974.55	975.15
C-163	CHOLUTECA 3.969	976.23	972.22	973.07	973.48	973.92	974.48
C-162	CHOLUTECA 4.093	975.17	971.07	971.84	972.25	972.73	973.35
C-161	CHOLUTECA 4.198	974.34	970.64	971.40	971.78	972.22	972.78
C-160	CHOLUTECA 4.292	973.78	970.16	970.91	971.28	971.71	972.24
C-159	CHOLUTECA 4.404	973.16	969.68	970.54	970.95	971.37	971.82
C-158	CHOLUTECA 4.425	973.09	969.59	970.43	970.77	971.16	971.66
C-157	CHOLUTECA 4.571	972.25	968.90	969.57	969.89	970.28	970.75
C-156	CHOLUTECA 4.691	971.80	968.49	969.17	969.49	969.86	970.34
C-155	CHOLUTECA 4.787	971.50	968.28	968.94	969.23	969.59	970.02
C-154	CHOLUTECA 4.857	971.28	968.08	968.73	969.03	969.39	969.83
C-153	CHOLUTECA 4.945	970.67	967.73	968.35	968.62	968.94	969.34
C-152	CHOLUTECA 5.059	970.44	967.28	967.93	968.24	968.61	969.05
C-151	CHOLUTECA 5.317	969.01	965.71	966.43	966.80	967.19	967.65
C-150	CHOLUTECA 5.487	968.20	964.80	965.58	965.97	966.36	966.83

**Table C.7.11 (2) Water Level from Hydraulic Simulation
for the Case "With Project" in Master Plan**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") in Master Plan						
		Water Level at each Return Period (m)						
		Mitch	5-Year	10-year	15-year	25-Year	50-year	
C-149	CHOLUTECA 5.581	967.28	964.08	964.78	965.14	965.51	965.97	
C-148	CHOLUTECA 5.783	964.63	961.92	962.44	962.71	963.03	963.43	
C-147	CHOLUTECA 5.905	963.62	960.77	961.30	961.55	961.87	962.29	
C-146	CHOLUTECA 5.965	963.06	960.23	960.76	961.02	961.34	961.75	
C-145	CHOLUTECA 6.062	962.81	959.82	960.36	960.64	960.99	961.43	
C-144	CHOLUTECA 6.155	962.21	959.23	959.76	960.04	960.38	960.81	
C-143	CHOLUTECA 6.231	962.08	959.01	959.56	959.85	960.20	960.65	
C-142	CHOLUTECA 6.409	961.79	958.51	959.10	959.41	959.78	960.25	
C-141	CHOLUTECA 6.502	961.73	958.42	959.02	959.34	959.72	960.19	
C-140	CHOLUTECA 6.600	961.25	958.06	958.63	958.94	959.31	959.77	
C-139	CHOLUTECA 6.705	961.14	957.95	958.53	958.84	959.21	959.67	
C-138	CHOLUTECA 6.762	960.46	957.56	958.08	958.36	958.69	959.11	
C-137	CHOLUTECA 6.870	959.98	957.05	957.56	957.84	958.17	958.60	
C-136	CHOLUTECA 6.976	959.30	956.59	957.06	957.32	957.62	958.02	
C-135	CHOLUTECA 7.078	958.25	955.82	956.23	956.45	956.72	957.07	
C-134	CHOLUTECA 7.183	957.05	954.41	954.85	955.11	955.41	955.80	
C-133	CHOLUTECA 7.291	956.60	953.77	954.26	954.53	954.86	955.27	
C-132	CHOLUTECA 7.399	956.25	953.09	953.71	954.04	954.41	954.86	
C-131	CHOLUTECA 7.505	956.32	953.07	953.71	954.05	954.44	954.90	
C-130	CHOLUTECA 7.605	956.29	953.05	953.70	954.04	954.42	954.88	
C-129	CHOLUTECA 7.679	956.29	953.05	953.69	954.03	954.41	954.88	
C-128	CHOLUTECA 7.709	956.29	953.05	953.69	954.03	954.41	954.88	
C-127	CHOLUTECA 7.869	956.20	953.00	953.64	953.98	954.35	954.81	
C-126	CHOLUTECA 8.047	955.54	952.63	953.23	953.54	953.88	954.30	
C-125	CHOLUTECA 8.149	955.23	952.23	952.79	953.10	953.48	953.92	
C-124	CHOLUTECA 8.258	954.98	951.85	952.45	952.77	953.17	953.61	
C-123	CHOLUTECA 8.413	954.41	951.26	951.85	952.17	952.56	953.03	
C-122	CHOLUTECA 8.525	953.99	950.74	951.30	951.64	952.05	952.56	
C-121	CHOLUTECA 8.638	953.72	950.09	950.86	951.26	951.72	952.26	
C-120	CHOLUTECA 8.755	953.33	949.69	950.43	950.81	951.28	951.85	
C-119	CHOLUTECA 8.824	952.75	949.19	949.86	950.21	950.63	951.18	
C-118	CHOLUTECA 8.935	951.57	948.26	948.86	949.17	949.54	950.02	
C-117	CHOLUTECA 9.083	950.24	947.08	947.62	947.91	948.26	948.71	
C-116	CHOLUTECA 9.208	950.11	946.74	947.29	947.60	947.97	948.45	
C-115	CHOLUTECA 9.377	950.01	946.40	947.01	947.34	947.73	948.25	
C-114	CHOLUTECA 9.512	949.71	945.94	946.57	946.92	947.34	947.89	
C-113	CHOLUTECA 9.600	949.55	945.68	946.36	946.72	947.16	947.72	
C-112	CHOLUTECA 9.711	949.24	945.27	945.99	946.38	946.83	947.40	
C-111	CHOLUTECA 9.797	949.23	945.20	945.94	946.33	946.79	947.37	
C-110	CHOLUTECA 9.906	949.07	945.04	945.78	946.17	946.63	947.21	
C-109	CHOLUTECA 10.005	948.86	944.86	945.60	945.99	946.45	947.03	
C-108	CHOLUTECA 10.118	948.39	944.46	945.19	945.57	946.02	946.58	
C-107	CHOLUTECA 10.178	948.47	944.46	945.21	945.60	946.06	946.64	
C-106	CHOLUTECA 10.320	947.85	944.03	944.75	945.13	945.57	946.11	
C-105	CHOLUTECA 10.421	947.77	943.87	944.61	944.99	945.44	946.00	
C-104	CHOLUTECA 10.526	947.75	943.73	944.49	944.88	945.34	945.92	
C-103	CHOLUTECA 10.621	947.20	943.40	944.13	944.50	944.94	945.49	
C-102	CHOLUTECA 10.756	945.86	942.36	943.01	943.35	943.75	944.27	
C-101	CHOLUTECA 10.878	944.12	940.99	941.60	941.91	942.28	942.74	
C-100	CHOLUTECA 10.940	943.75	940.68	941.29	941.60	941.96	942.41	
C-99	CHOLUTECA 11.044	943.33	940.11	940.72	941.02	941.37	941.82	

**Table C.7.11 (2) Water Level from Hydraulic Simulation
for the Case "With Project" in Master Plan**

Section	River/Chainage	Design Sections ("With Project") in Master Plan						
		Water Level at each Return Period (m)						
		Mitch	5-Year	10-year	15-year	25-Year	50-year	
C-98	CHOLUTECA 11.130	943.00	939.69	940.29	940.61	940.98	941.46	
C-97	CHOLUTECA 11.251	942.63	939.36	939.96	940.28	940.65	941.12	
C-96	CHOLUTECA 11.402	942.23	938.94	939.55	939.87	940.25	940.72	
C-95	CHOLUTECA 11.541	941.15	937.99	938.59	938.91	939.28	939.73	
C-94	CHOLUTECA 11.659	940.38	936.96	937.63	937.98	938.37	938.84	
C-93	CHOLUTECA 11.769	940.14	936.46	937.15	937.50	937.92	938.45	
C-92	CHOLUTECA 11.907	939.85	936.27	936.96	937.33	937.74	938.24	
C-91	CHOLUTECA 12.071	938.69	935.51	936.11	936.43	936.79	937.24	
C-90	CHOLUTECA 12.169	937.51	934.65	935.15	935.42	935.75	936.16	
C-89	CHOLUTECA 12.264	937.35	934.30	934.87	935.17	935.53	935.97	
C-88	CHOLUTECA 12.361	936.77	933.78	934.37	934.67	935.02	935.45	
C-87	CHOLUTECA 12.457	936.47	933.53	934.12	934.42	934.76	935.19	
C-86	CHOLUTECA 12.551	936.26	933.16	933.75	934.06	934.42	934.87	
C-85	CHOLUTECA 12.646	935.79	932.73	933.30	933.60	933.96	934.42	
C-84	CHOLUTECA 12.742	935.47	932.35	932.94	933.25	933.62	934.08	
C-83	CHOLUTECA 12.849	935.24	932.00	932.63	932.95	933.33	933.81	
C-82	CHOLUTECA 12.937	934.94	931.67	932.32	932.64	933.03	933.51	
C-81	CHOLUTECA 13.040	934.63	931.32	931.99	932.33	932.73	933.22	
C-80	CHOLUTECA 13.160	934.14	930.88	931.53	931.86	932.24	932.71	
C-79	CHOLUTECA 13.254	933.65	930.46	931.10	931.42	931.80	932.25	
C-78	CHOLUTECA 13.356	933.35	930.02	930.65	930.97	931.35	931.83	
C-77	CHOLUTECA 13.479	933.00	929.68	930.32	930.65	931.04	931.53	
C-76	CHOLUTECA 13.587	932.46	929.10	929.73	930.06	930.45	930.95	
C-75	CHOLUTECA 13.730	932.16	928.61	929.29	929.64	930.06	930.59	
C-74	CHOLUTECA 13.839	931.76	927.92	928.59	928.97	929.42	929.97	
C-73	CHOLUTECA 13.959	931.66	927.51	928.25	928.64	929.12	929.72	
C-72	CHOLUTECA 14.101	931.56	927.29	928.08	928.49	928.99	929.60	
C-71	CHOLUTECA 14.239	931.32	927.06	927.84	928.26	928.75	929.37	
C-70	CHOLUTECA 14.349	930.80	926.68	927.44	927.84	928.32	928.91	
C-69	CHOLUTECA 14.461	930.73	926.46	927.26	927.67	928.16	928.77	
C-68	CHOLUTECA 14.567	930.65	926.33	927.14	927.56	928.06	928.67	
C-67	CHOLUTECA 14.764	930.35	926.03	926.84	927.27	927.76	928.38	
C-66	CHOLUTECA 14.936	929.59	925.35	926.16	926.58	927.07	927.67	
C-65	CHOLUTECA 15.084	929.17	924.85	925.64	926.06	926.54	927.16	
C-64	CHOLUTECA 15.262	928.39	924.09	924.84	925.24	925.71	926.36	
C-63	CHOLUTECA 15.352	928.16	923.90	924.66	925.06	925.52	926.15	
C-62	CHOLUTECA 15.416	927.67	923.64	924.37	924.75	925.20	925.81	
C-61	CHOLUTECA 15.563	927.20	923.08	923.81	924.20	924.66	925.29	
C-60	CHOLUTECA 15.636	927.01	922.77	923.53	923.93	924.42	925.07	
C-59	CHOLUTECA 15.816	926.60	922.15	922.94	923.36	923.94	924.62	
C-58	CHOLUTECA 15.951	926.47	921.58	922.38	923.04	923.84	924.53	
C-57	CHOLUTECA 15.992	926.45	921.62	922.44	922.87	923.65	924.37	
C-56	CHOLUTECA 16.127	925.67	921.23	922.05	922.47	922.99	923.65	
C-55	CHOLUTECA 16.300	925.19	920.72	921.56	921.98	922.47	923.11	
C-54	CHOLUTECA 16.379	925.11	920.61	921.45	921.88	922.37	923.01	
C-53	CHOLUTECA 16.454	924.85	920.46	921.31	921.74	922.23	922.82	
C-52	CHOLUTECA 16.550	924.62	920.24	921.08	921.51	921.99	922.59	
C-51	CHOLUTECA 16.689	923.80	919.59	920.42	920.84	921.30	921.87	
C-50	CHOLUTECA 16.826	922.94	918.85	919.67	920.08	920.53	921.08	
C-49	CHOLUTECA 16.927	922.55	918.35	919.18	919.62	920.08	920.66	
C-48	CHOLUTECA 17.037	921.50	917.70	918.47	918.87	919.28	919.80	

**Table C.7.11 (2) Water Level from Hydraulic Simulation
for the Case "With Project" in Master Plan**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") in Master Plan					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
C-47	CHOLUTECA 17.135	921.28	917.29	918.08	918.50	918.95	919.50
C-46	CHOLUTECA 17.275	920.23	916.42	917.20	917.60	918.04	918.57
C-45	CHOLUTECA 17.384	920.21	916.14	916.96	917.38	917.86	918.44
C-44	CHOLUTECA 17.472	919.54	915.65	916.41	916.81	917.30	917.87
C-43	CHOLUTECA 17.583	918.98	915.00	915.81	916.22	916.71	917.27
C-42	CHOLUTECA 17.689	918.40	914.46	915.22	915.60	916.06	916.66
C-41	CHOLUTECA 17.754	917.86	913.99	914.71	915.07	915.50	916.08
C-40	CHOLUTECA 17.867	917.35	913.52	914.23	914.58	915.00	915.52
C-39	CHOLUTECA 17.967	917.37	913.07	913.81	914.18	914.61	915.16
C-38	CHOLUTECA 18.061	917.32	912.52	913.22	913.55	913.94	914.45
C-37	CHOLUTECA 18.098	916.70	912.48	913.23	913.59	914.01	914.56
C-36	CHOLUTECA 18.113	917.26	912.48	913.23	913.58	914.00	914.53
C-35	CHOLUTECA 18.221	915.87	911.89	912.61	912.97	913.39	913.93
C-34	CHOLUTECA 18.406	914.70	911.02	911.71	912.04	912.43	912.93
C-33	CHOLUTECA 18.515	914.26	910.43	911.11	911.47	911.90	912.44
C-32	CHOLUTECA 18.615	913.48	909.92	910.58	910.91	911.30	911.80
C-31	CHOLUTECA 18.718	912.77	909.45	910.08	910.38	910.75	911.22
C-30	CHOLUTECA 18.817	912.40	908.84	909.49	909.83	910.23	910.74
C-29	CHOLUTECA 18.946	911.18	907.82	908.42	908.74	909.12	909.60
C-28	CHOLUTECA 19.077	909.46	906.46	906.98	907.25	907.59	908.01
C-27	CHOLUTECA 19.188	909.27	906.09	906.65	906.94	907.29	907.74
C-26	CHOLUTECA 19.303	908.85	905.66	906.23	906.53	906.88	907.33
C-25	CHOLUTECA 19.423	908.62	905.41	905.99	906.29	906.65	907.10
C-24	CHOLUTECA 19.495	908.33	905.20	905.77	906.06	906.41	906.85
C-23	CHOLUTECA 19.591	907.37	904.49	905.01	905.28	905.61	906.01
C-22	CHOLUTECA 19.696	907.18	904.13	904.69	904.98	905.33	905.75
C-21	CHOLUTECA 19.811	907.04	903.96	904.53	904.83	905.17	905.60
C-20	CHOLUTECA 19.911	907.09	903.96	904.53	904.83	905.18	905.62
C-19	CHOLUTECA 20.010	907.04	903.92	904.49	904.79	905.14	905.58
C-18	CHOLUTECA 20.117	906.53	903.59	904.12	904.40	904.73	905.15
C-17	CHOLUTECA 20.215	905.81	902.98	903.50	903.76	904.08	904.47
C-16	CHOLUTECA 20.313	905.19	902.39	902.86	903.11	903.42	903.81
C-15	CHOLUTECA 20.400	904.87	901.96	902.45	902.72	903.03	903.44
C-14	CHOLUTECA 20.505	903.80	901.16	901.57	901.79	902.07	902.44
C-13	CHOLUTECA 20.599	903.52	900.50	900.97	901.23	901.55	901.97
C-12	CHOLUTECA 20.697	903.32	900.02	900.58	900.87	901.23	901.69
C-11	CHOLUTECA 20.805	903.05	899.62	900.22	900.53	900.91	901.38
C-10	CHOLUTECA 20.878	902.64	899.26	899.86	900.17	900.55	901.01
C-9	CHOLUTECA 20.980	901.60	898.49	899.04	899.32	899.67	900.10
C-8	CHOLUTECA 21.075	900.95	897.81	898.36	898.65	899.00	899.43
C-7	CHOLUTECA 21.173	900.40	897.22	897.78	898.07	898.42	898.86
C-6	CHOLUTECA 21.277	900.23	896.89	897.48	897.79	898.16	898.61
C-5	CHOLUTECA 21.390	899.62	896.37	896.95	897.25	897.61	898.05
C-4	CHOLUTECA 21.489	898.86	895.73	896.30	896.59	896.94	897.35
C-3	CHOLUTECA 21.581	897.84	894.83	895.38	895.66	896.00	896.39
C-2	CHOLUTECA 21.681	896.86	893.85	894.34	894.59	894.89	895.27
C-1	CHOLUTECA 21.777	896.13	892.53	893.01	893.26	893.59	894.03
C-0	CHOLUTECA 21.879	894.88	890.16	890.83	891.21	891.68	892.30

**Table C.7.11 (2) Water Level from Hydraulic Simulation
for the Case "With Project" in Master Plan**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") in Master Plan					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
CH-51	CHIQUITO 0.000	983.90	981.58	982.00	982.22	982.48	982.81
CH-50	CHIQUITO 0.203	980.75	978.88	979.21	979.39	979.59	979.86
CH-49	CHIQUITO 0.333	978.25	976.53	976.83	976.98	977.18	977.42
CH-48	CHIQUITO 0.452	977.30	975.47	975.78	975.95	976.16	976.42
CH-47	CHIQUITO 0.652	975.95	973.83	974.20	974.40	974.64	974.94
CH-46	CHIQUITO 0.843	972.39	970.76	971.05	971.20	971.39	971.62
CH-45	CHIQUITO 0.927	971.51	969.89	970.18	970.33	970.52	970.76
CH-44	CHIQUITO 1.043	970.03	968.37	968.67	968.84	969.04	969.29
CH-43	CHIQUITO 1.206	967.51	965.42	965.77	965.97	966.20	966.50
CH-42	CHIQUITO 1.340	966.47	964.30	964.69	964.90	965.14	965.46
CH-41	CHIQUITO 1.445	965.20	963.21	963.56	963.75	963.98	964.27
CH-40	CHIQUITO 1.544	963.24	961.36	961.68	961.86	962.07	962.34
CH-39	CHIQUITO 1.602	962.40	960.32	960.68	960.87	961.11	961.40
CH-38	CHIQUITO 1.767	960.90	958.79	959.16	959.36	959.60	959.90
CH-37	CHIQUITO 1.844	960.22	958.13	958.50	958.70	958.93	959.23
CH-36	CHIQUITO 1.960	958.85	956.78	957.15	957.34	957.57	957.87
CH-35	CHIQUITO 2.030	957.76	955.94	956.26	956.44	956.64	956.90
CH-34	CHIQUITO 2.102	956.91	955.29	955.57	955.72	955.90	956.13
CH-33	CHIQUITO 2.184	955.53	953.92	954.19	954.34	954.52	954.75
CH-32	CHIQUITO 2.300	954.47	952.70	953.01	953.18	953.38	953.65
CH-31	CHIQUITO 2.390	953.55	951.62	951.97	952.16	952.38	952.68
CH-30	CHIQUITO 2.512	952.26	950.09	950.45	950.65	950.89	951.21
CH-29	CHIQUITO 2.636	951.12	948.75	949.18	949.41	949.69	950.04
CH-28	CHIQUITO 2.717	950.51	948.08	948.53	948.76	949.04	949.40
CH-27	CHIQUITO 2.806	949.45	947.13	947.55	947.77	948.03	948.37
CH-26	CHIQUITO 2.929	947.49	945.55	945.91	946.10	946.32	946.60
CH-25	CHIQUITO 3.023	946.53	944.74	945.09	945.27	945.48	945.72
CH-24	CHIQUITO 3.086	945.70	943.96	944.30	944.47	944.68	944.91
CH-23	CHIQUITO 3.201	944.65	942.68	943.02	943.21	943.43	943.72
CH-22	CHIQUITO 3.302	943.99	942.01	942.36	942.55	942.78	943.06
CH-21	CHIQUITO 3.396	943.10	941.27	941.60	941.78	941.99	942.25
CH-20	CHIQUITO 3.500	942.15	940.28	940.65	940.85	941.08	941.34
CH-19	CHIQUITO 3.578	941.15	939.33	939.70	939.89	940.12	940.37
CH-18	CHIQUITO 3.700	939.17	937.72	938.00	938.14	938.31	938.52
CH-17	CHIQUITO 3.780	938.02	936.73	936.94	937.06	937.20	937.40
CH-16	CHIQUITO 3.918	937.26	935.57	935.82	935.96	936.14	936.38
CH-15	CHIQUITO 4.064	936.34	934.19	934.55	934.75	935.00	935.30
CH-14	CHIQUITO 4.129	935.66	933.31	933.73	933.96	934.24	934.57
CH-13	CHIQUITO 4.227	934.57	932.28	932.72	932.95	933.23	933.54
CH-12	CHIQUITO 4.353	932.89	930.53	930.97	931.20	931.48	931.79
CH-11	CHIQUITO 4.465	931.87	929.38	929.84	930.08	930.37	930.74
CH-10	CHIQUITO 4.610	930.61	928.28	928.72	928.94	929.20	929.54
CH-9	CHIQUITO 4.804	929.91	927.72	928.14	928.34	928.58	928.90
CH-8	CHIQUITO 5.024	928.88	926.99	927.33	927.49	927.68	927.96
CH-7	CHIQUITO 5.139	927.37	925.55	925.88	926.08	926.34	926.61
CH-6	CHIQUITO 5.178	927.27	925.17	925.69	925.95	926.24	926.53
CH-5	CHIQUITO 5.245	927.02	924.62	925.17	925.47	925.78	926.08
CH-4	CHIQUITO 5.295	926.66	924.03	924.51	924.76	925.04	925.37
CH-3	CHIQUITO 5.325	926.38	923.99	924.50	924.77	925.05	925.33
CH-2	CHIQUITO 5.465	925.56	922.71	923.26	923.52	923.78	924.12
CH-1	CHIQUITO 5.524	924.89	921.98	922.60	922.81	923.01	923.35

**Table C.7.11 (2) Water Level from Hydraulic Simulation
for the Case "With Project" in Master Plan**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") in Master Plan					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
CH-0	CHIQUITO 5.654	924.62	920.24	921.08	921.51	921.99	922.59
ST-3	SAPO 0.000	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
ST-2	SAPO 0.126	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
ST-1	SAPO 0.237	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
S-27	SAPO 0.596	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
S-26	SAPO 0.683	994.70	994.02	994.21	994.30	994.37	994.44
S-25	SAPO 0.780	990.40	989.81	990.01	990.12	990.19	990.23
S-24	SAPO 0.938	985.38	984.73	984.95	985.05	985.12	985.18
S-23	SAPO 1.016	984.07	983.37	983.60	983.70	983.77	983.83
S-22	SAPO 1.020	983.99	983.30	983.52	983.62	983.69	983.75
S-21	SAPO 1.090	982.49	981.88	982.03	982.11	982.17	982.24
S-20	SAPO 1.152	979.99	979.16	979.36	979.48	979.56	979.65
S-19	SAPO 1.245	977.66	976.52	976.84	977.00	977.12	977.25
S-18	SAPO 1.384	973.71	972.91	973.12	973.23	973.31	973.39
S-17	SAPO 1.463	970.46	969.86	970.06	970.13	970.18	970.24
S-16	SAPO 1.535	967.90	967.32	967.47	967.55	967.60	967.67
S-15	SAPO 1.598	965.94	965.31	965.47	965.56	965.62	965.69
S-14	SAPO 1.694	963.38	962.68	962.86	962.96	963.02	963.10
S-13	SAPO 1.787	960.63	960.05	960.19	960.27	960.32	960.39
S-12	SAPO 1.906	957.19	956.43	956.63	956.73	956.80	956.89
S-11	SAPO 2.023	954.62	953.85	954.08	954.18	954.25	954.33
S-10	SAPO 2.084	953.31	952.62	952.79	952.89	952.95	953.03
S-9	SAPO 2.213	948.07	947.01	947.29	947.43	947.53	947.65
S-8	SAPO 2.338	946.92	946.12	946.31	946.41	946.48	946.57
S-7	SAPO 2.406	945.11	943.39	943.84	944.07	944.24	944.43
S-6-1	SAPO 2.468	940.91	939.79	940.08	940.23	940.34	940.46
S-6	SAPO 2.551	938.11	937.06	937.33	937.47	937.58	937.70
S-5	SAPO 2.640	934.80	933.74	934.06	934.22	934.34	934.48
S-4	SAPO 2.742	932.00	930.71	931.06	931.25	931.38	931.53
S-3	SAPO 2.828	929.79	928.96	929.16	929.27	929.35	929.44
S-2	SAPO 2.965	928.16	927.56	927.70	927.78	927.83	927.89
S-1	SAPO 3.044	924.98	923.02	923.32	923.45	923.56	923.72
S-0	SAPO 3.401	924.85	920.46	921.31	921.74	922.23	922.82

**Table C.7.11 (2) Water Level from Hydraulic Simulation
for the Case "With Project" in Master Plan**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") in Master Plan					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
G-30	GUACERIQUE 0.000	950.80	948.80	949.17	949.36	949.59	949.88
G-29	GUACERIQUE 0.098	950.16	948.24	948.59	948.78	949.00	949.27
G-28	GUACERIQUE 0.197	949.28	947.34	947.68	947.87	948.08	948.36
G-27	GUACERIQUE 0.288	948.84	946.68	947.07	947.28	947.53	947.84
G-26	GUACERIQUE 0.389	948.07	946.11	946.47	946.66	946.89	947.17
G-25	GUACERIQUE 0.490	946.61	944.87	945.18	945.34	945.54	945.79
G-24	GUACERIQUE 0.598	944.66	943.03	943.31	943.46	943.64	943.87
G-23	GUACERIQUE 0.690	943.69	941.86	942.15	942.32	942.52	942.78
G-22	GUACERIQUE 0.793	942.69	940.60	940.97	941.16	941.40	941.69
G-21	GUACERIQUE 0.895	941.74	939.72	940.07	940.25	940.48	940.77
G-20	GUACERIQUE 0.999	941.00	938.84	939.22	939.43	939.67	939.97
G-19	GUACERIQUE 1.101	940.16	938.30	938.62	938.79	939.00	939.26
G-18	GUACERIQUE 1.200	939.49	937.40	937.73	937.92	938.15	938.46
G-17	GUACERIQUE 1.301	938.55	936.30	936.68	936.89	937.15	937.47
G-16	GUACERIQUE 1.403	937.66	935.24	935.62	935.83	936.09	936.44
G-15	GUACERIQUE 1.503	937.26	934.13	934.64	934.94	935.30	935.76
G-14	GUACERIQUE 1.606	937.05	933.62	934.19	934.52	934.93	935.45
G-13	GUACERIQUE 1.708	937.03	933.31	934.00	934.37	934.81	935.37
G-12	GUACERIQUE 1.808	936.97	933.13	933.87	934.25	934.71	935.28
G-11	GUACERIQUE 1.908	936.58	932.81	933.53	933.91	934.36	934.92
G-10	GUACERIQUE 2.022	936.08	932.26	933.04	933.42	933.87	934.43
G-9	GUACERIQUE 2.095	934.08	930.21	930.87	931.23	931.67	932.24
G-8	GUACERIQUE 2.201	932.41	928.52	929.21	929.58	930.05	930.65
G-7	GUACERIQUE 2.307	932.43	928.32	929.05	929.45	929.94	930.57
G-6	GUACERIQUE 2.448	932.01	927.77	928.53	928.94	929.45	930.11
G-5	GUACERIQUE 2.593	931.68	927.46	928.24	928.66	929.17	929.82
G-4	GUACERIQUE 2.717	931.36	927.10	927.91	928.34	928.86	929.51
G-3	GUACERIQUE 2.838	931.40	927.01	927.84	928.28	928.81	929.48
G-2	GUACERIQUE 2.932	931.06	926.71	927.52	927.95	928.45	929.08
G-1	GUACERIQUE 3.044	930.15	926.01	926.79	927.19	927.67	928.25
G-0	GUACERIQUE 3.176	930.35	926.03	926.84	927.27	927.76	928.38

**Table C.7.11 (3) Water Level from Hydraulic Simulation
for the Case "With Project" for Priority Project**

Section	River/Chainage	Design Sections ("With Project") for Priority Project					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
C-200	CHOLUTECA 0.000	996.69	994.46	994.93	995.17	995.44	995.77
C-199	CHOLUTECA 0.110	995.93	993.87	994.29	994.51	994.76	995.07
C-198	CHOLUTECA 0.218	995.32	993.23	993.63	993.83	994.08	994.38
C-197	CHOLUTECA 0.290	994.62	992.69	993.05	993.24	993.45	993.73
C-196	CHOLUTECA 0.386	993.61	991.68	992.01	992.18	992.38	992.66
C-195	CHOLUTECA 0.478	992.79	990.52	990.93	991.14	991.40	991.73
C-194	CHOLUTECA 0.608	992.37	990.10	990.50	990.71	990.97	991.30
C-193	CHOLUTECA 0.716	991.78	989.57	989.95	990.15	990.39	990.71
C-192	CHOLUTECA 0.829	991.20	988.83	989.23	989.45	989.71	990.05
C-191	CHOLUTECA 0.984	990.74	988.17	988.62	988.86	989.14	989.51
C-190	CHOLUTECA 1.146	990.31	987.48	987.97	988.24	988.57	988.99
C-189	CHOLUTECA 1.238	989.90	987.07	987.56	987.83	988.16	988.59
C-188	CHOLUTECA 1.425	989.43	986.44	986.97	987.27	987.62	988.08
C-187	CHOLUTECA 1.658	988.69	985.64	986.23	986.55	986.92	987.40
C-186	CHOLUTECA 1.790	987.95	984.76	985.37	985.69	986.06	986.53
C-185	CHOLUTECA 1.867	987.92	984.68	985.29	985.60	985.97	986.43
C-184	CHOLUTECA 1.936	987.64	984.44	985.02	985.32	985.66	986.11
C-183	CHOLUTECA 1.977	987.72	984.46	985.05	985.35	985.71	986.18
C-182	CHOLUTECA 2.060	987.59	984.39	984.97	985.27	985.63	986.09
C-181	CHOLUTECA 2.159	986.89	983.98	984.51	984.78	985.11	985.52
C-180	CHOLUTECA 2.251	985.72	983.05	983.54	983.78	984.07	984.45
C-179	CHOLUTECA 2.350	984.39	981.68	982.16	982.42	982.71	983.10
C-178	CHOLUTECA 2.471	983.94	981.02	981.57	981.84	982.15	982.56
C-177	CHOLUTECA 2.610	983.06	980.26	980.83	981.08	981.37	981.76
C-176	CHOLUTECA 2.757	982.64	979.25	979.89	980.24	980.64	981.16
C-175	CHOLUTECA 2.789	982.59	979.00	979.71	980.09	980.54	981.08
C-174	CHOLUTECA 2.822	982.16	978.65	979.34	979.70	980.14	980.68
C-173	CHOLUTECA 2.932	981.74	978.06	978.76	979.13	979.56	980.10
C-172	CHOLUTECA 3.034	981.22	977.54	978.24	978.60	979.02	979.55
C-171	CHOLUTECA 3.136	980.24	976.90	977.55	977.88	978.26	978.74
C-170	CHOLUTECA 3.241	980.31	976.75	977.41	977.76	978.17	978.69
C-169	CHOLUTECA 3.314	979.82	976.33	976.98	977.32	977.71	978.20
C-168	CHOLUTECA 3.453	979.01	975.60	976.23	976.56	976.96	977.43
C-167	CHOLUTECA 3.559	977.96	974.88	975.45	975.76	976.12	976.53
C-166	CHOLUTECA 3.675	977.46	973.88	974.50	974.84	975.24	975.76
C-165	CHOLUTECA 3.780	977.25	973.09	973.88	974.29	974.74	975.34
C-164	CHOLUTECA 3.853	977.03	972.80	973.65	974.08	974.55	975.14
C-163	CHOLUTECA 3.969	976.23	972.22	973.07	973.48	973.92	974.48
C-162	CHOLUTECA 4.093	975.17	971.07	971.84	972.25	972.73	973.35
C-161	CHOLUTECA 4.198	974.34	970.63	971.40	971.78	972.22	972.78
C-160	CHOLUTECA 4.292	973.78	970.16	970.91	971.28	971.71	972.25
C-159	CHOLUTECA 4.404	973.14	969.69	970.54	970.94	971.38	971.82
C-158	CHOLUTECA 4.425	973.10	969.60	970.43	970.77	971.17	971.66
C-157	CHOLUTECA 4.571	972.26	968.89	969.57	969.89	970.27	970.75
C-156	CHOLUTECA 4.691	971.80	968.49	969.17	969.49	969.86	970.34
C-155	CHOLUTECA 4.787	971.50	968.28	968.94	969.23	969.59	970.02
C-154	CHOLUTECA 4.857	971.28	968.08	968.73	969.03	969.39	969.83
C-153	CHOLUTECA 4.945	970.67	967.73	968.35	968.62	968.94	969.34
C-152	CHOLUTECA 5.059	970.44	967.28	967.93	968.24	968.61	969.05
C-151	CHOLUTECA 5.317	969.01	965.71	966.43	966.80	967.19	967.65
C-150	CHOLUTECA 5.487	968.20	964.80	965.58	965.97	966.36	966.83

**Table C.7.11 (3) Water Level from Hydraulic Simulation
for the Case "With Project" for Priority Project**

Section	River/Chainage	Design Sections ("With Project") for Priority Project						
		Water Level at each Return Period (m)						
		Mitch	5-Year	10-year	15-year	25-Year	50-year	
C-149	CHOLUTECA 5.581	967.28	964.08	964.78	965.14	965.51	965.97	
C-148	CHOLUTECA 5.783	964.63	961.92	962.44	962.71	963.03	963.43	
C-147	CHOLUTECA 5.905	963.62	960.77	961.30	961.55	961.87	962.29	
C-146	CHOLUTECA 5.965	963.06	960.23	960.76	961.02	961.34	961.75	
C-145	CHOLUTECA 6.062	962.81	959.82	960.36	960.64	960.99	961.43	
C-144	CHOLUTECA 6.155	962.21	959.23	959.76	960.04	960.38	960.81	
C-143	CHOLUTECA 6.231	962.08	959.01	959.56	959.85	960.20	960.65	
C-142	CHOLUTECA 6.409	961.79	958.51	959.10	959.41	959.78	960.25	
C-141	CHOLUTECA 6.502	961.73	958.42	959.02	959.33	959.72	960.19	
C-140	CHOLUTECA 6.600	961.25	958.06	958.63	958.94	959.31	959.77	
C-139	CHOLUTECA 6.705	961.14	957.95	958.53	958.84	959.21	959.67	
C-138	CHOLUTECA 6.762	960.46	957.56	958.08	958.36	958.69	959.11	
C-137	CHOLUTECA 6.870	959.98	957.05	957.57	957.84	958.17	958.60	
C-136	CHOLUTECA 6.976	959.30	956.59	957.06	957.32	957.62	958.02	
C-135	CHOLUTECA 7.078	958.25	955.82	956.23	956.45	956.72	957.07	
C-134	CHOLUTECA 7.183	957.05	954.41	954.85	955.11	955.41	955.80	
C-133	CHOLUTECA 7.291	956.60	953.77	954.26	954.53	954.86	955.27	
C-132	CHOLUTECA 7.399	956.25	953.09	953.71	954.04	954.41	954.86	
C-131	CHOLUTECA 7.505	956.32	953.07	953.71	954.05	954.44	954.90	
C-130	CHOLUTECA 7.605	956.30	953.05	953.70	954.04	954.42	954.88	
C-129	CHOLUTECA 7.679	956.29	953.05	953.69	954.03	954.41	954.88	
C-128	CHOLUTECA 7.709	956.29	953.05	953.69	954.03	954.41	954.88	
C-127	CHOLUTECA 7.869	956.20	953.00	953.64	953.98	954.35	954.81	
C-126	CHOLUTECA 8.047	955.54	952.63	953.23	953.54	953.89	954.30	
C-125	CHOLUTECA 8.149	955.23	952.23	952.79	953.10	953.48	953.92	
C-124	CHOLUTECA 8.258	954.98	951.85	952.45	952.77	953.17	953.62	
C-123	CHOLUTECA 8.413	954.41	951.26	951.85	952.17	952.56	953.04	
C-122	CHOLUTECA 8.525	954.00	950.74	951.30	951.64	952.06	952.56	
C-121	CHOLUTECA 8.638	953.72	950.09	950.86	951.26	951.72	952.26	
C-120	CHOLUTECA 8.755	953.34	949.69	950.43	950.82	951.29	951.85	
C-119	CHOLUTECA 8.824	952.76	949.19	949.86	950.21	950.63	951.18	
C-118	CHOLUTECA 8.935	951.59	948.27	948.86	949.17	949.55	950.03	
C-117	CHOLUTECA 9.083	950.28	947.08	947.62	947.92	948.27	948.73	
C-116	CHOLUTECA 9.208	950.17	946.74	947.31	947.62	947.99	948.48	
C-115	CHOLUTECA 9.377	950.07	946.41	947.02	947.36	947.76	948.29	
C-114	CHOLUTECA 9.512	949.78	945.95	946.59	946.95	947.38	947.94	
C-113	CHOLUTECA 9.600	949.62	945.70	946.38	946.75	947.20	947.77	
C-112	CHOLUTECA 9.711	949.32	945.29	946.02	946.41	946.88	947.46	
C-111	CHOLUTECA 9.797	949.32	945.22	945.97	946.37	946.84	947.43	
C-110	CHOLUTECA 9.906	949.16	945.06	945.81	946.21	946.68	947.27	
C-109	CHOLUTECA 10.005	948.96	944.88	945.64	946.04	946.51	947.10	
C-108	CHOLUTECA 10.118	948.51	944.49	945.24	945.63	946.09	946.66	
C-107	CHOLUTECA 10.178	948.58	944.49	945.26	945.66	946.13	946.72	
C-106	CHOLUTECA 10.320	947.98	944.07	944.81	945.20	945.65	946.21	
C-105	CHOLUTECA 10.421	947.90	943.91	944.67	945.07	945.53	946.11	
C-104	CHOLUTECA 10.526	947.90	943.78	944.56	944.96	945.45	946.04	
C-103	CHOLUTECA 10.621	947.36	943.46	944.21	944.59	945.05	945.62	
C-102	CHOLUTECA 10.756	946.02	942.42	943.10	943.45	943.88	944.41	
C-101	CHOLUTECA 10.878	944.57	941.18	941.85	942.19	942.60	943.09	
C-100	CHOLUTECA 10.940	944.54	940.97	941.64	941.99	942.41	942.91	
C-99	CHOLUTECA 11.044	944.42	940.53	941.23	941.58	942.01	942.57	

**Table C.7.11 (3) Water Level from Hydraulic Simulation
for the Case "With Project" for Priority Project**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") for Priority Project						
		Water Level at each Return Period (m)						
		Mitch	5-Year	10-year	15-year	25-Year	50-year	
C-98	CHOLUTECA 11.130	944.23	940.23	940.97	941.35	941.80	942.37	
C-97	CHOLUTECA 11.251	944.02	940.02	940.76	941.15	941.60	942.16	
C-96	CHOLUTECA 11.402	943.82	939.77	940.54	940.92	941.38	941.94	
C-95	CHOLUTECA 11.541	943.07	939.10	939.86	940.25	940.70	941.25	
C-94	CHOLUTECA 11.659	942.98	938.89	939.67	940.07	940.54	941.12	
C-93	CHOLUTECA 11.769	941.94	938.14	938.86	939.23	939.67	940.19	
C-92	CHOLUTECA 11.907	941.65	937.92	938.64	939.01	939.45	939.96	
C-91	CHOLUTECA 12.071	940.57	937.21	937.85	938.19	938.58	939.04	
C-90	CHOLUTECA 12.169	939.43	936.20	936.81	937.12	937.49	937.93	
C-89	CHOLUTECA 12.264	938.61	935.51	936.07	936.36	936.70	937.14	
C-88	CHOLUTECA 12.361	937.73	934.73	935.23	935.49	935.81	936.23	
C-87	CHOLUTECA 12.457	937.78	934.13	934.78	935.12	935.53	936.04	
C-86	CHOLUTECA 12.551	937.77	934.05	934.71	935.06	935.48	936.00	
C-85	CHOLUTECA 12.646	937.71	933.99	934.65	935.00	935.42	935.94	
C-84	CHOLUTECA 12.742	937.69	933.95	934.61	934.96	935.39	935.91	
C-83	CHOLUTECA 12.849	937.67	933.92	934.59	934.94	935.36	935.89	
C-82	CHOLUTECA 12.937	937.64	933.90	934.56	934.91	935.33	935.86	
C-81	CHOLUTECA 13.040	937.61	933.88	934.54	934.89	935.31	935.84	
C-80	CHOLUTECA 13.160	937.22	933.65	934.27	934.60	935.00	935.51	
C-79	CHOLUTECA 13.254	936.49	933.03	933.61	933.93	934.32	934.81	
C-78	CHOLUTECA 13.356	936.27	932.81	933.37	933.69	934.09	934.58	
C-77	CHOLUTECA 13.479	935.06	931.98	932.44	932.72	933.08	933.52	
C-76	CHOLUTECA 13.587	934.88	931.40	931.95	932.29	932.71	933.21	
C-75	CHOLUTECA 13.730	934.74	930.96	931.43	931.74	932.14	932.71	
C-74	CHOLUTECA 13.839	934.68	930.17	930.99	931.43	931.95	932.60	
C-73	CHOLUTECA 13.959	934.72	930.19	931.05	931.49	932.00	932.64	
C-72	CHOLUTECA 14.101	934.46	929.99	930.85	931.29	931.79	932.42	
C-71	CHOLUTECA 14.239	933.83	929.57	930.39	930.82	931.30	931.90	
C-70	CHOLUTECA 14.349	932.89	928.85	929.59	929.97	930.44	931.03	
C-69	CHOLUTECA 14.461	931.86	927.92	928.62	928.99	929.43	929.99	
C-68	CHOLUTECA 14.567	931.66	927.55	928.29	928.68	929.15	929.74	
C-67	CHOLUTECA 14.764	930.52	926.52	927.25	927.63	928.09	928.66	
C-66	CHOLUTECA 14.936	929.51	925.40	926.18	926.59	927.07	927.66	
C-65	CHOLUTECA 15.084	929.15	924.84	925.63	926.05	926.53	927.15	
C-64	CHOLUTECA 15.262	928.37	924.09	924.84	925.23	925.72	926.35	
C-63	CHOLUTECA 15.352	928.14	923.90	924.66	925.05	925.54	926.15	
C-62	CHOLUTECA 15.416	927.66	923.64	924.37	924.75	925.22	925.80	
C-61	CHOLUTECA 15.563	927.19	923.09	923.82	924.21	924.70	925.30	
C-60	CHOLUTECA 15.636	927.01	922.78	923.54	923.94	924.46	925.08	
C-59	CHOLUTECA 15.816	926.61	922.18	922.97	923.40	924.01	924.65	
C-58	CHOLUTECA 15.951	926.49	921.63	922.42	923.27	923.93	924.57	
C-57	CHOLUTECA 15.992	926.47	921.66	922.48	923.09	923.73	924.41	
C-56	CHOLUTECA 16.137	925.68	921.27	922.09	922.49	923.04	923.67	
C-55	CHOLUTECA 16.300	925.22	920.78	921.61	922.03	922.53	923.15	
C-54	CHOLUTECA 16.379	925.15	920.67	921.51	921.93	922.44	923.06	
C-53	CHOLUTECA 16.454	924.89	920.54	921.38	921.79	922.27	922.88	
C-52	CHOLUTECA 16.550	924.66	920.32	921.16	921.57	922.05	922.64	
C-51	CHOLUTECA 16.689	923.87	919.70	920.53	920.93	921.38	921.95	
C-50	CHOLUTECA 16.826	923.04	919.02	919.83	920.21	920.65	921.21	
C-49	CHOLUTECA 16.927	922.69	918.58	919.40	919.80	920.26	920.83	
C-48	CHOLUTECA 17.037	921.69	918.02	918.77	919.11	919.53	920.04	

**Table C.7.11 (3) Water Level from Hydraulic Simulation
for the Case "With Project" for Priority Project**

Section	River/Chainage	Design Sections ("With Project ") for Priority Project					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
C-47	CHOLUTECA 17.135	921.53	917.70	918.47	918.84	919.28	919.81
C-46	CHOLUTECA 17.275	920.64	917.05	917.77	918.13	918.53	919.03
C-45	CHOLUTECA 17.384	920.69	916.90	917.65	918.03	918.46	918.99
C-44	CHOLUTECA 17.472	920.12	916.54	917.26	917.63	918.04	918.54
C-43	CHOLUTECA 17.583	919.74	916.21	916.91	917.26	917.66	918.16
C-42	CHOLUTECA 17.689	919.41	915.90	916.59	916.94	917.34	917.82
C-41	CHOLUTECA 17.754	919.17	915.66	916.33	916.65	917.02	917.50
C-40	CHOLUTECA 17.867	918.90	915.51	916.13	916.46	916.83	917.30
C-39	CHOLUTECA 17.967	918.40	915.11	915.72	916.03	916.40	916.86
C-38	CHOLUTECA 18.061	917.39	914.15	914.73	915.03	915.38	915.83
C-37	CHOLUTECA 18.098	917.68	914.26	914.87	915.20	915.57	916.04
C-36	CHOLUTECA 18.113	917.57	914.22	914.83	915.15	915.52	915.98
C-35	CHOLUTECA 18.221	916.74	913.50	914.09	914.41	914.76	915.21
C-34	CHOLUTECA 18.406	915.24	911.81	912.43	912.75	913.14	913.62
C-33	CHOLUTECA 18.515	914.74	911.12	911.77	912.11	912.51	913.03
C-32	CHOLUTECA 18.615	914.06	910.69	911.28	911.59	911.96	912.44
C-31	CHOLUTECA 18.718	913.30	910.20	910.75	911.03	911.38	911.82
C-30	CHOLUTECA 18.817	912.84	909.49	910.08	910.39	910.76	911.25
C-29	CHOLUTECA 18.946	911.56	908.26	908.84	909.15	909.52	909.99
C-28	CHOLUTECA 19.077	909.69	906.63	907.15	907.43	907.76	908.19
C-27	CHOLUTECA 19.188	909.24	906.08	906.63	906.93	907.27	907.72
C-26	CHOLUTECA 19.303	908.82	905.65	906.21	906.51	906.86	907.31
C-25	CHOLUTECA 19.423	908.59	905.40	905.97	906.27	906.63	907.08
C-24	CHOLUTECA 19.495	908.31	905.19	905.75	906.05	906.39	906.84
C-23	CHOLUTECA 19.591	907.34	904.48	905.00	905.27	905.59	905.99
C-22	CHOLUTECA 19.696	907.16	904.12	904.68	904.97	905.31	905.74
C-21	CHOLUTECA 19.811	907.01	903.95	904.52	904.81	905.15	905.59
C-20	CHOLUTECA 19.911	907.06	903.94	904.52	904.81	905.16	905.61
C-19	CHOLUTECA 20.010	907.01	903.90	904.47	904.77	905.12	905.56
C-18	CHOLUTECA 20.117	906.50	903.58	904.11	904.39	904.71	905.13
C-17	CHOLUTECA 20.215	905.79	902.97	903.48	903.75	904.06	904.45
C-16	CHOLUTECA 20.313	905.17	902.38	902.85	903.10	903.40	903.79
C-15	CHOLUTECA 20.400	904.85	901.95	902.44	902.70	903.01	903.42
C-14	CHOLUTECA 20.505	903.77	901.15	901.56	901.78	902.05	902.42
C-13	CHOLUTECA 20.599	903.48	900.49	900.96	901.22	901.53	901.96
C-12	CHOLUTECA 20.697	903.28	900.01	900.56	900.86	901.21	901.67
C-11	CHOLUTECA 20.805	903.01	899.61	900.20	900.51	900.89	901.36
C-10	CHOLUTECA 20.878	902.60	899.25	899.85	900.16	900.53	900.99
C-9	CHOLUTECA 20.980	901.56	898.48	899.02	899.31	899.65	900.08
C-8	CHOLUTECA 21.075	900.91	897.80	898.35	898.63	898.98	899.41
C-7	CHOLUTECA 21.173	900.36	897.21	897.77	898.06	898.41	898.84
C-6	CHOLUTECA 21.277	900.18	896.88	897.47	897.77	898.14	898.59
C-5	CHOLUTECA 21.390	899.57	896.36	896.94	897.24	897.59	898.03
C-4	CHOLUTECA 21.489	898.80	895.72	896.29	896.57	896.92	897.34
C-3	CHOLUTECA 21.581	897.77	894.82	895.36	895.64	895.98	896.37
C-2	CHOLUTECA 21.681	896.74	893.84	894.33	894.58	894.88	895.26
C-1	CHOLUTECA 21.777	895.93	892.52	893.00	893.25	893.57	894.01
C-0	CHOLUTECA 21.879	894.69	890.14	890.81	891.18	891.65	892.28

**Table C.7.11 (3) Water Level from Hydraulic Simulation
for the Case "With Project" for Priority Project**

Section	River/Chainage	Design Sections ("With Project ") for Priority Project					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
CH-51	CHIQUITO 0.000	983.90	981.58	982.00	982.22	982.48	982.81
CH-50	CHIQUITO 0.203	980.75	978.88	979.21	979.39	979.59	979.86
CH-49	CHIQUITO 0.333	978.25	976.53	976.83	976.98	977.18	977.42
CH-48	CHIQUITO 0.452	977.30	975.47	975.78	975.95	976.16	976.42
CH-47	CHIQUITO 0.652	975.95	973.83	974.20	974.40	974.64	974.94
CH-46	CHIQUITO 0.843	972.39	970.76	971.05	971.20	971.39	971.62
CH-45	CHIQUITO 0.927	971.51	969.89	970.18	970.33	970.52	970.76
CH-44	CHIQUITO 1.043	970.03	968.37	968.67	968.84	969.04	969.29
CH-43	CHIQUITO 1.206	967.51	965.42	965.77	965.97	966.20	966.50
CH-42	CHIQUITO 1.340	966.47	964.30	964.69	964.90	965.14	965.46
CH-41	CHIQUITO 1.445	965.20	963.21	963.56	963.75	963.98	964.27
CH-40	CHIQUITO 1.544	963.24	961.36	961.68	961.86	962.07	962.34
CH-39	CHIQUITO 1.602	962.40	960.32	960.68	960.87	961.11	961.40
CH-38	CHIQUITO 1.767	960.90	958.79	959.16	959.36	959.60	959.90
CH-37	CHIQUITO 1.844	960.22	958.13	958.50	958.70	958.93	959.23
CH-36	CHIQUITO 1.960	958.85	956.78	957.15	957.34	957.57	957.87
CH-35	CHIQUITO 2.030	957.76	955.94	956.26	956.44	956.64	956.90
CH-34	CHIQUITO 2.102	956.91	955.29	955.57	955.72	955.90	956.13
CH-33	CHIQUITO 2.184	955.53	953.92	954.19	954.34	954.52	954.75
CH-32	CHIQUITO 2.300	954.47	952.70	953.01	953.18	953.38	953.65
CH-31	CHIQUITO 2.390	953.55	951.62	951.97	952.16	952.38	952.68
CH-30	CHIQUITO 2.512	952.26	950.09	950.45	950.65	950.89	951.21
CH-29	CHIQUITO 2.636	951.12	948.75	949.18	949.41	949.69	950.04
CH-28	CHIQUITO 2.717	950.51	948.08	948.53	948.76	949.04	949.40
CH-27	CHIQUITO 2.806	949.45	947.13	947.55	947.77	948.03	948.37
CH-26	CHIQUITO 2.929	947.49	945.55	945.91	946.10	946.32	946.60
CH-25	CHIQUITO 3.023	946.53	944.74	945.09	945.27	945.48	945.72
CH-24	CHIQUITO 3.086	945.70	943.96	944.30	944.47	944.68	944.91
CH-23	CHIQUITO 3.201	944.65	942.68	943.02	943.21	943.43	943.72
CH-22	CHIQUITO 3.302	943.99	942.01	942.36	942.55	942.78	943.06
CH-21	CHIQUITO 3.396	943.10	941.27	941.60	941.78	941.99	942.25
CH-20	CHIQUITO 3.500	942.15	940.28	940.65	940.85	941.08	941.34
CH-19	CHIQUITO 3.578	941.15	939.33	939.70	939.89	940.12	940.37
CH-18	CHIQUITO 3.700	939.17	937.72	938.00	938.14	938.31	938.52
CH-17	CHIQUITO 3.780	938.02	936.73	936.94	937.06	937.20	937.40
CH-16	CHIQUITO 3.918	937.26	935.57	935.82	935.96	936.14	936.38
CH-15	CHIQUITO 4.064	936.34	934.19	934.55	934.75	935.00	935.30
CH-14	CHIQUITO 4.129	935.66	933.31	933.73	933.96	934.24	934.57
CH-13	CHIQUITO 4.227	934.57	932.28	932.72	932.95	933.23	933.54
CH-12	CHIQUITO 4.353	932.89	930.53	930.97	931.20	931.48	931.79
CH-11	CHIQUITO 4.465	931.87	929.38	929.84	930.08	930.37	930.74
CH-10	CHIQUITO 4.610	930.61	928.28	928.72	928.94	929.20	929.54
CH-9	CHIQUITO 4.804	929.91	927.72	928.14	928.34	928.58	928.90
CH-8	CHIQUITO 5.024	928.88	926.99	927.33	927.49	927.68	927.96
CH-7	CHIQUITO 5.139	927.37	925.55	925.88	926.08	926.34	926.61
CH-6	CHIQUITO 5.178	927.27	925.17	925.70	925.95	926.24	926.53
CH-5	CHIQUITO 5.245	927.02	924.62	925.18	925.47	925.78	926.08
CH-4	CHIQUITO 5.295	926.66	924.03	924.51	924.76	925.04	925.37
CH-3	CHIQUITO 5.325	926.39	923.99	924.51	924.77	925.05	925.33
CH-2	CHIQUITO 5.465	925.58	922.72	923.26	923.52	923.78	924.12
CH-1	CHIQUITO 5.524	924.91	922.02	922.61	922.81	923.01	923.36

**Table C.7.11 (3) Water Level from Hydraulic Simulation
for the Case "With Project" for Priority Project**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") for Priority Project					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
CH-0	CHIQUITO 5.654	924.66	920.32	921.16	921.57	922.05	922.64
ST-3	SAPO 0.000	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
ST-2	SAPO 0.126	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
ST-1	SAPO 0.237	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
S-27	SAPO 0.596	1,000.81	1,000.17	1,000.34	1,000.42	1,000.48	1,000.55
S-26	SAPO 0.683	994.70	994.02	994.20	994.30	994.37	994.44
S-25	SAPO 0.780	990.40	989.81	990.01	990.12	990.19	990.23
S-24	SAPO 0.938	985.38	984.73	984.95	985.05	985.12	985.18
S-23	SAPO 1.016	984.07	983.37	983.60	983.70	983.77	983.83
S-22	SAPO 1.020	983.99	983.30	983.52	983.62	983.69	983.75
S-21	SAPO 1.090	982.49	981.88	982.03	982.11	982.17	982.24
S-20	SAPO 1.152	979.99	979.16	979.36	979.48	979.56	979.65
S-19	SAPO 1.245	977.66	976.52	976.84	977.00	977.12	977.25
S-18	SAPO 1.384	973.71	972.91	973.12	973.23	973.31	973.39
S-17	SAPO 1.463	970.46	969.86	970.06	970.13	970.18	970.24
S-16	SAPO 1.535	967.90	967.32	967.47	967.55	967.60	967.67
S-15	SAPO 1.598	965.94	965.31	965.47	965.56	965.62	965.69
S-14	SAPO 1.694	963.38	962.68	962.86	962.96	963.02	963.10
S-13	SAPO 1.787	960.63	960.05	960.19	960.27	960.32	960.39
S-12	SAPO 1.906	957.19	956.43	956.63	956.73	956.80	956.89
S-11	SAPO 2.023	954.62	953.85	954.08	954.18	954.25	954.33
S-10	SAPO 2.084	953.31	952.62	952.79	952.88	952.95	953.03
S-9	SAPO 2.213	948.07	947.01	947.29	947.43	947.53	947.65
S-8	SAPO 2.338	946.92	946.11	946.31	946.41	946.48	946.57
S-7	SAPO 2.406	945.11	943.39	943.84	944.07	944.24	944.43
S-6-1	SAPO 2.468	940.91	939.79	940.08	940.23	940.34	940.46
S-6	SAPO 2.551	938.11	937.05	937.33	937.47	937.58	937.70
S-5	SAPO 2.640	934.80	933.73	934.05	934.22	934.34	934.48
S-4	SAPO 2.742	932.00	930.71	931.06	931.25	931.38	931.53
S-3	SAPO 2.828	929.79	928.96	929.16	929.27	929.35	929.44
S-2	SAPO 2.965	928.16	927.56	927.70	927.78	927.83	927.89
S-1	SAPO 3.044	925.01	923.01	923.32	923.45	923.57	923.73
S-0	SAPO 3.401	924.89	920.54	921.38	921.79	922.27	922.88

**Table C.7.11 (3) Water Level from Hydraulic Simulation
for the Case "With Project" for Priority Project**

Section	River/Chainage	Design Sections (" <i>With Project</i> ") for Priority Project					
		Water Level at each Return Period (m)					
		Mitch	5-Year	10-year	15-year	25-Year	50-year
G-30	GUACERIQUE 0.000	950.80	948.80	949.17	949.36	949.59	949.88
G-29	GUACERIQUE 0.098	950.16	948.24	948.59	948.78	949.00	949.27
G-28	GUACERIQUE 0.197	949.28	947.34	947.68	947.87	948.08	948.36
G-27	GUACERIQUE 0.288	948.84	946.68	947.07	947.28	947.53	947.84
G-26	GUACERIQUE 0.389	948.07	946.11	946.47	946.66	946.89	947.17
G-25	GUACERIQUE 0.490	946.61	944.87	945.18	945.34	945.54	945.79
G-24	GUACERIQUE 0.598	944.66	943.03	943.31	943.46	943.64	943.87
G-23	GUACERIQUE 0.690	943.69	941.86	942.15	942.32	942.52	942.78
G-22	GUACERIQUE 0.793	942.69	940.60	940.97	941.16	941.40	941.69
G-21	GUACERIQUE 0.895	941.74	939.72	940.07	940.25	940.48	940.77
G-20	GUACERIQUE 0.999	941.00	938.84	939.22	939.43	939.67	939.97
G-19	GUACERIQUE 1.101	940.16	938.30	938.62	938.79	939.00	939.26
G-18	GUACERIQUE 1.200	939.49	937.40	937.73	937.92	938.15	938.46
G-17	GUACERIQUE 1.301	938.55	936.30	936.68	936.89	937.15	937.47
G-16	GUACERIQUE 1.403	937.66	935.24	935.62	935.83	936.10	936.44
G-15	GUACERIQUE 1.503	937.27	934.13	934.64	934.94	935.30	935.76
G-14	GUACERIQUE 1.606	937.06	933.62	934.20	934.53	934.93	935.46
G-13	GUACERIQUE 1.708	937.04	933.32	934.00	934.37	934.82	935.38
G-12	GUACERIQUE 1.808	936.98	933.14	933.87	934.26	934.72	935.29
G-11	GUACERIQUE 1.908	936.59	932.81	933.54	933.92	934.37	934.93
G-10	GUACERIQUE 2.022	936.08	932.27	933.05	933.43	933.88	934.44
G-9	GUACERIQUE 2.095	934.10	930.23	930.90	931.26	931.70	932.27
G-8	GUACERIQUE 2.201	932.47	928.63	929.31	929.69	930.15	930.74
G-7	GUACERIQUE 2.307	932.49	928.45	929.18	929.57	930.06	930.68
G-6	GUACERIQUE 2.448	932.08	927.96	928.71	929.11	929.61	930.24
G-5	GUACERIQUE 2.593	931.76	927.70	928.46	928.86	929.35	929.98
G-4	GUACERIQUE 2.717	931.46	927.40	928.18	928.58	929.07	929.70
G-3	GUACERIQUE 2.838	931.50	927.33	928.12	928.54	929.03	929.67
G-2	GUACERIQUE 2.932	931.19	927.07	927.83	928.23	928.70	929.30
G-1	GUACERIQUE 3.044	930.31	926.46	927.17	927.53	927.97	928.52
G-0	GUACERIQUE 3.176	930.52	926.52	927.25	927.63	928.09	928.66

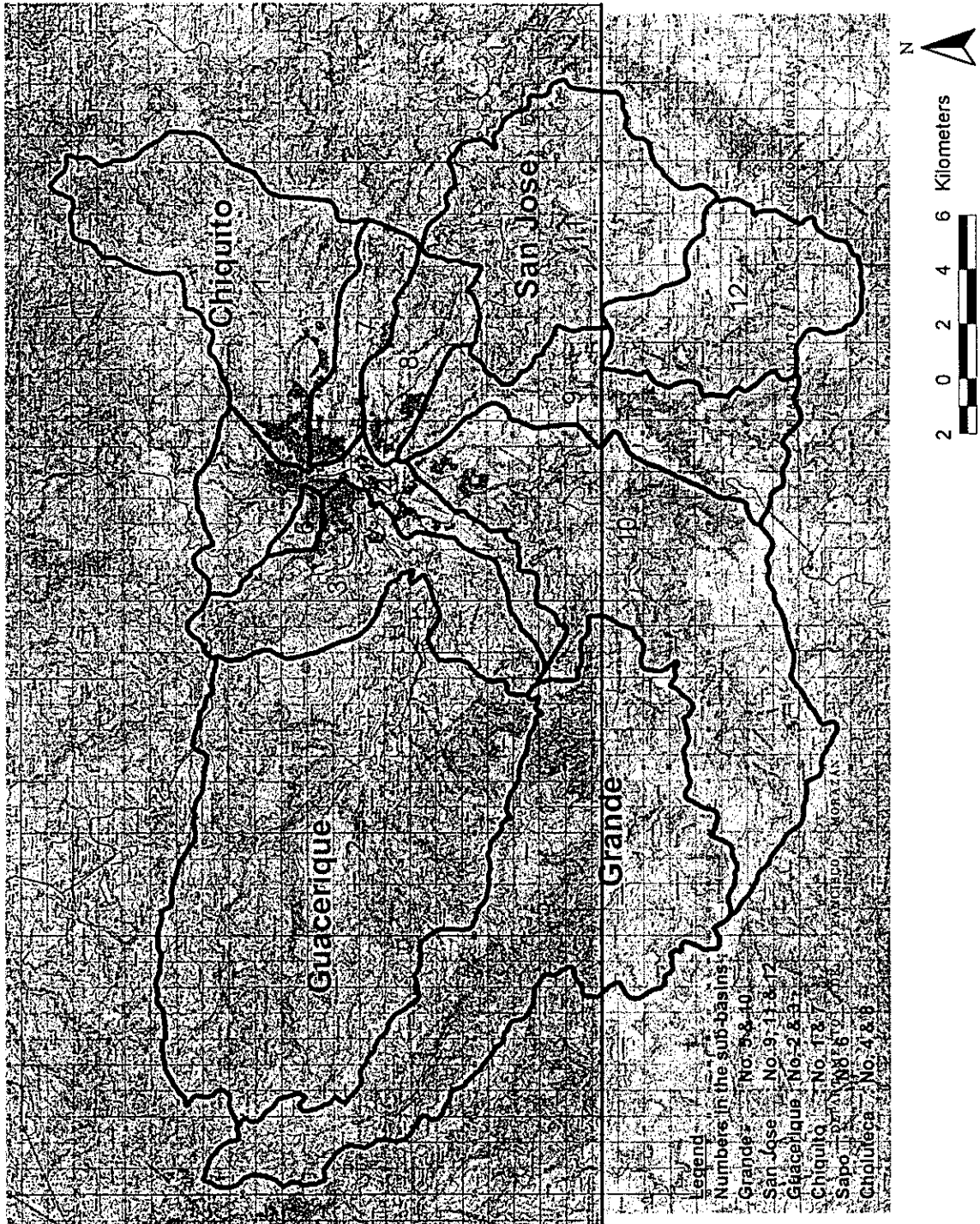


Figure C.1.1

Drainage Basins in the Hydrological Area