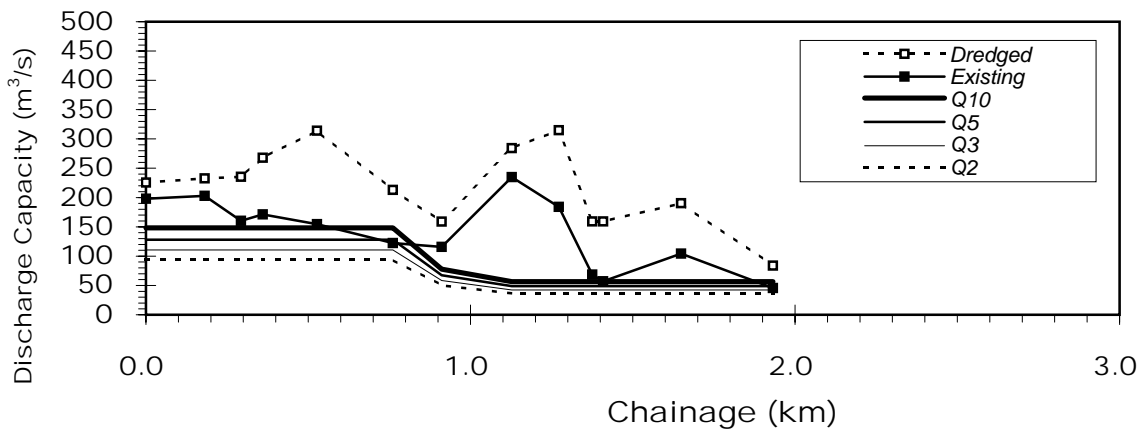
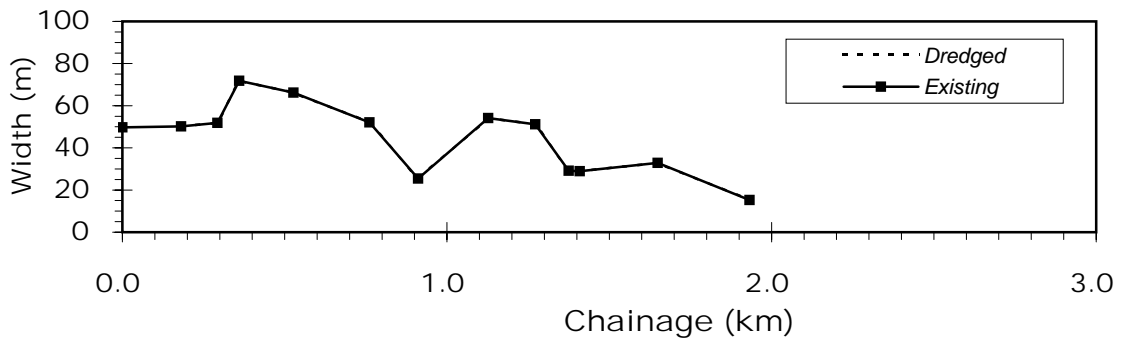
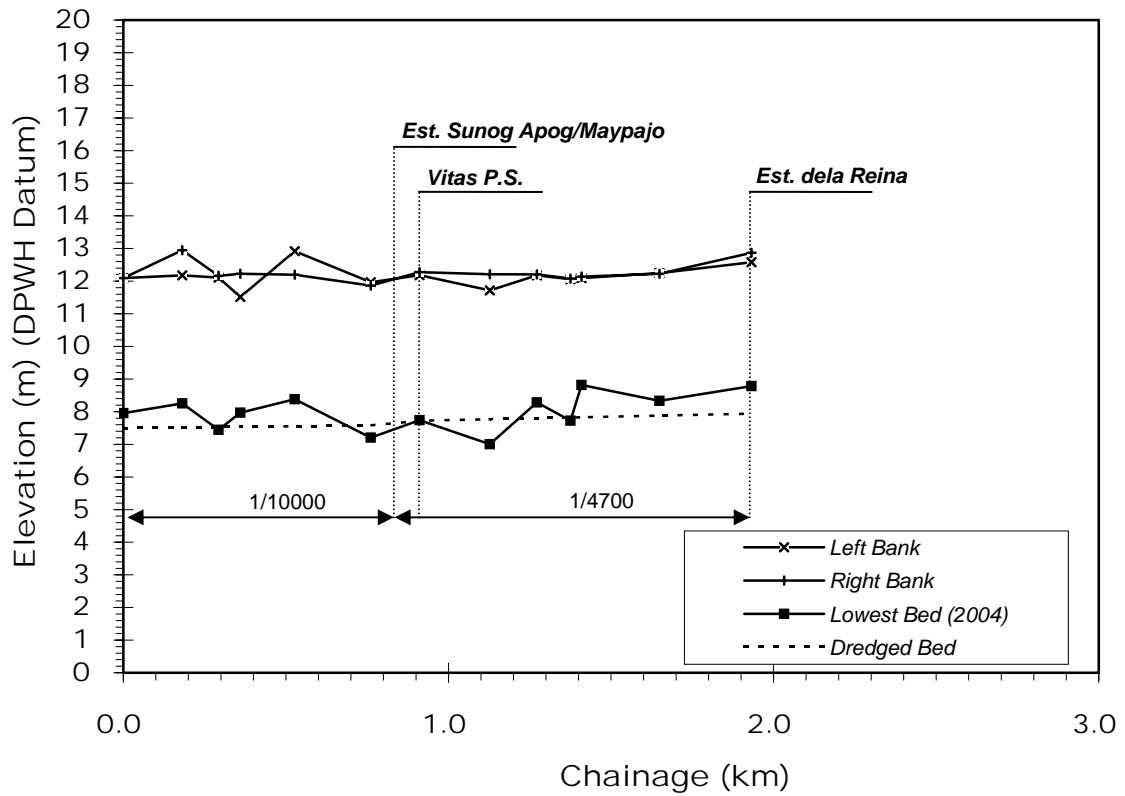


ANNEX E.1

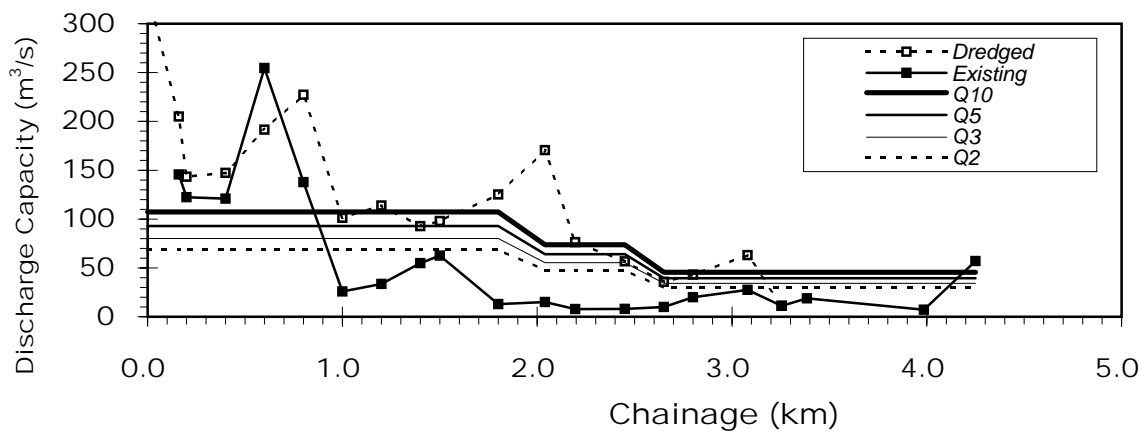
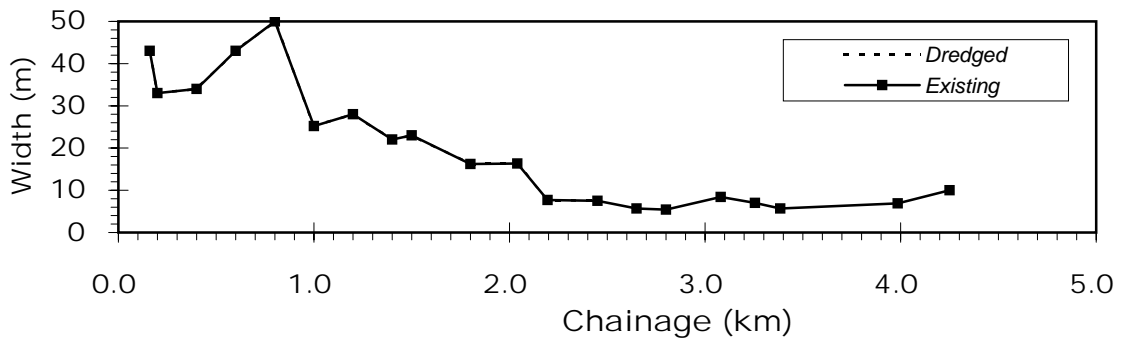
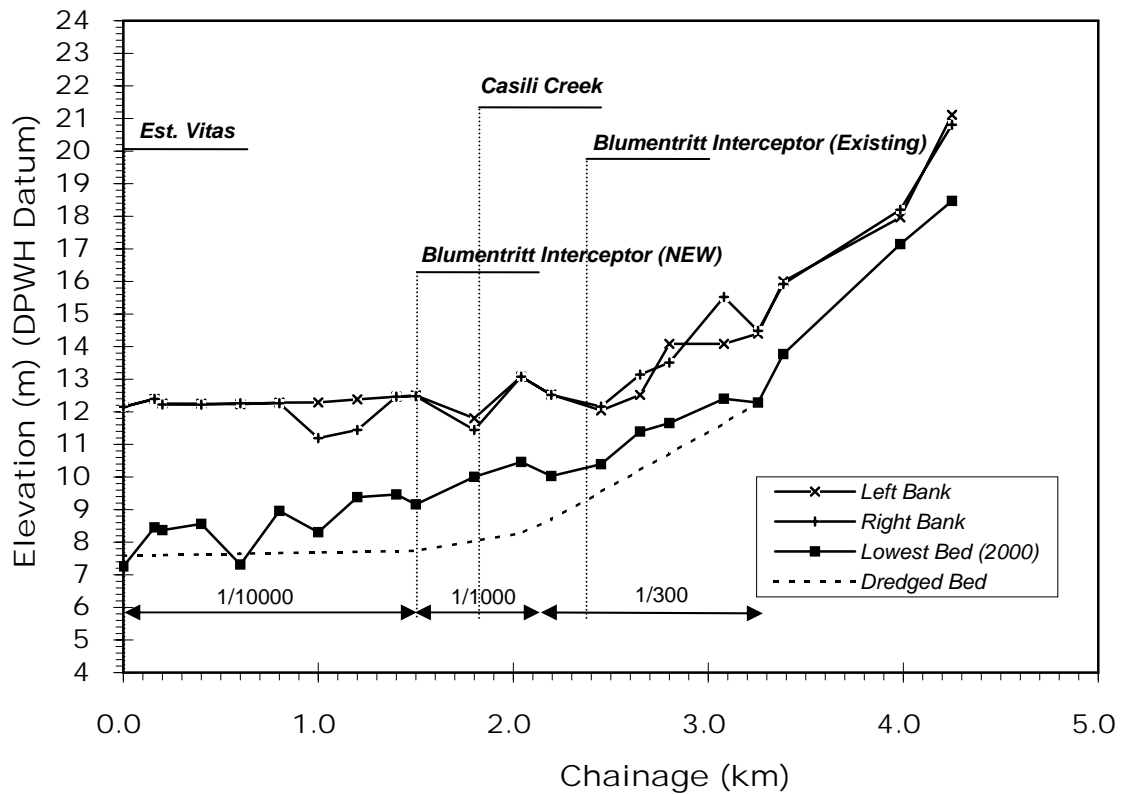
LONGITUDINAL PROFILE OF DRAINAGE CHANNELS

LONGITUDINAL PROFILE OF ESTEROS/CREEKS

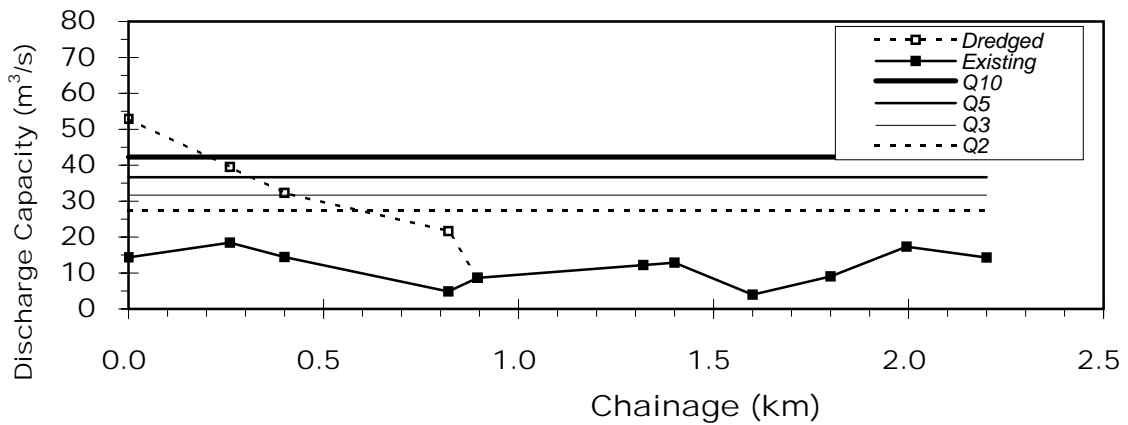
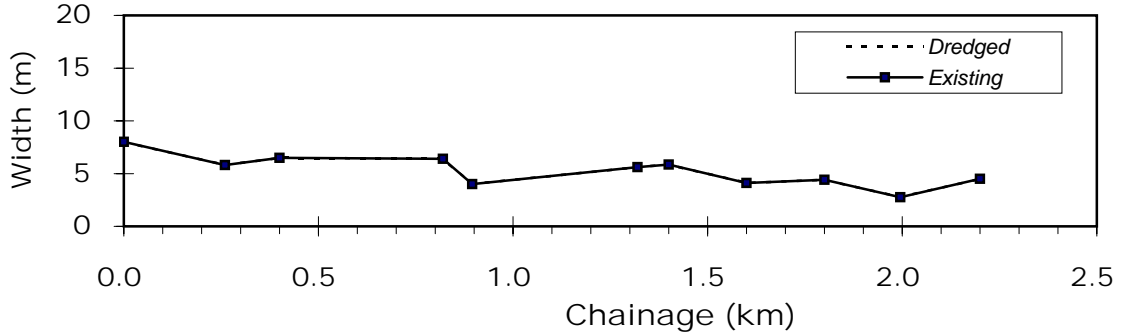
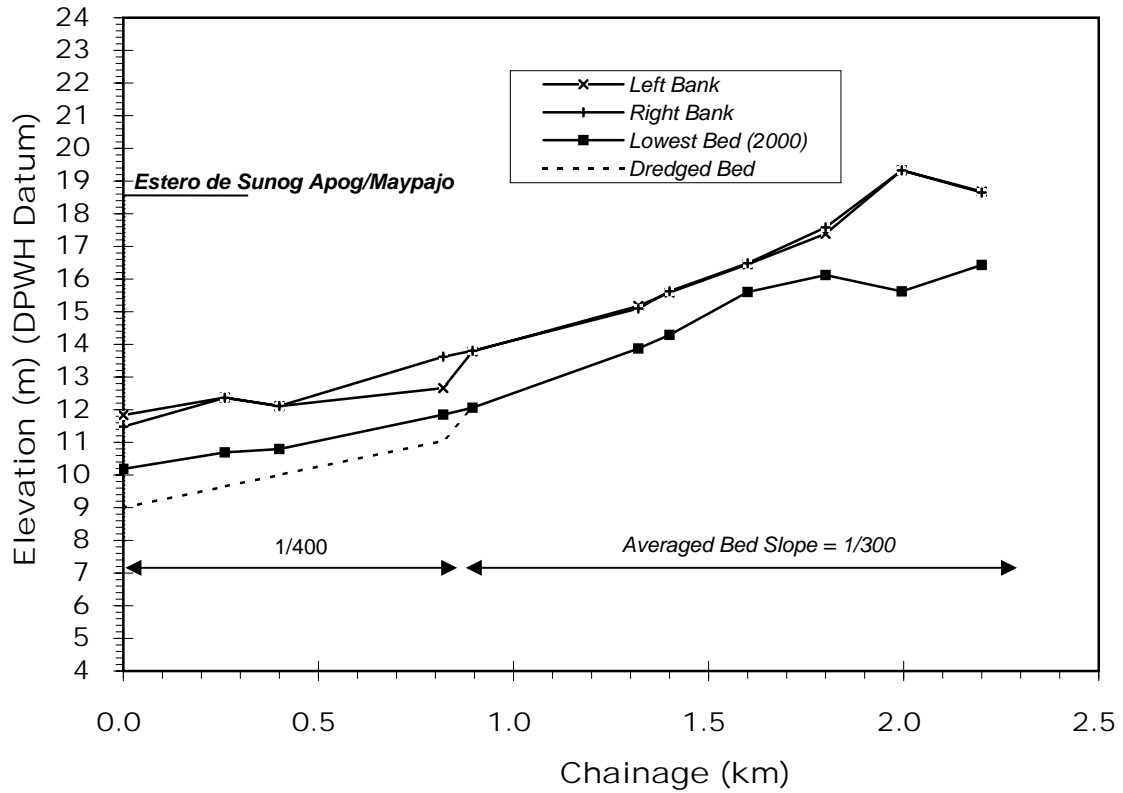
NE01 Estero de Vitas



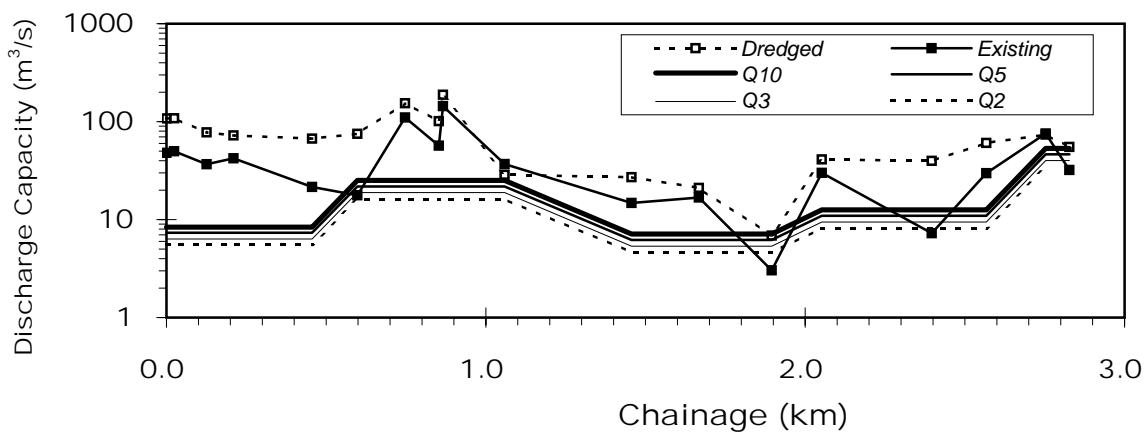
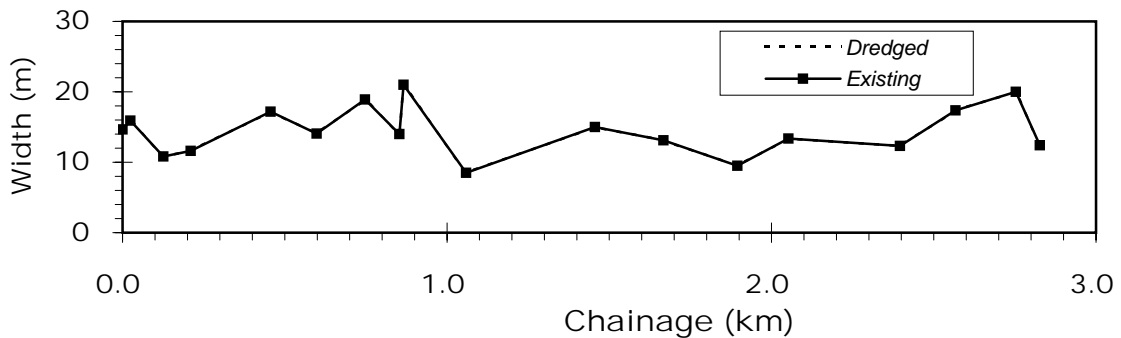
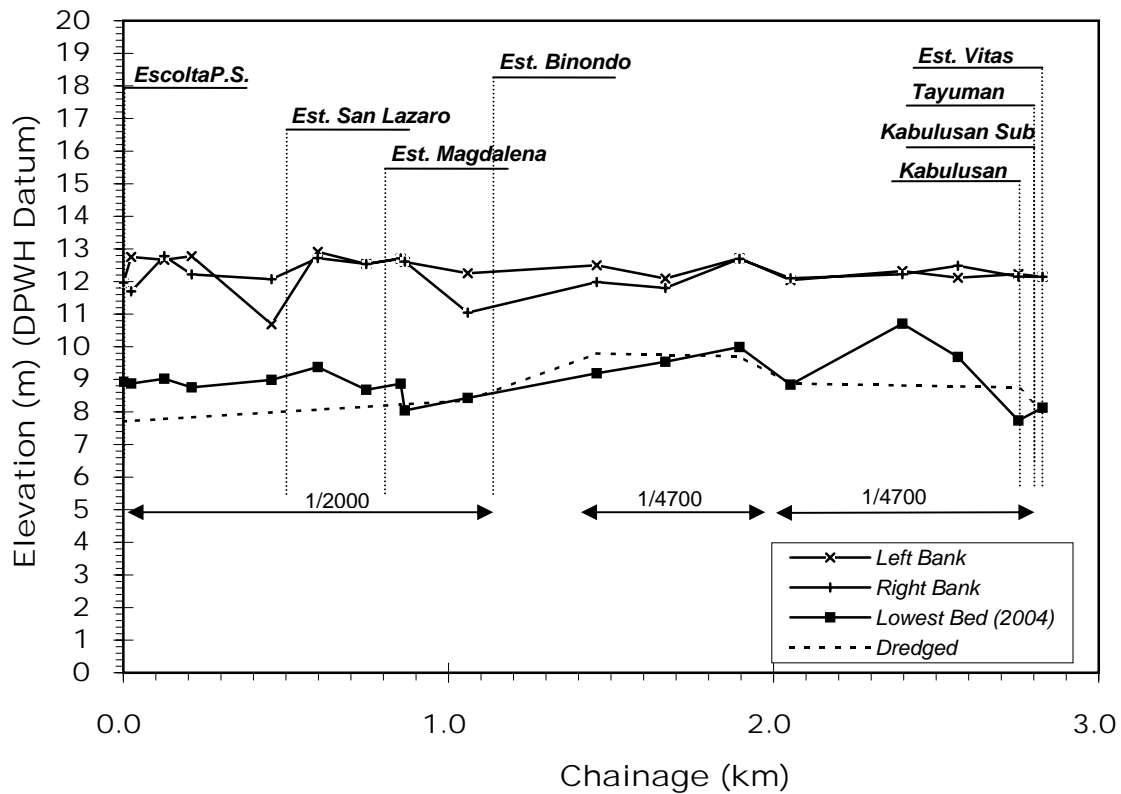
NE02 Estero de Sunog Apog/Maypajo



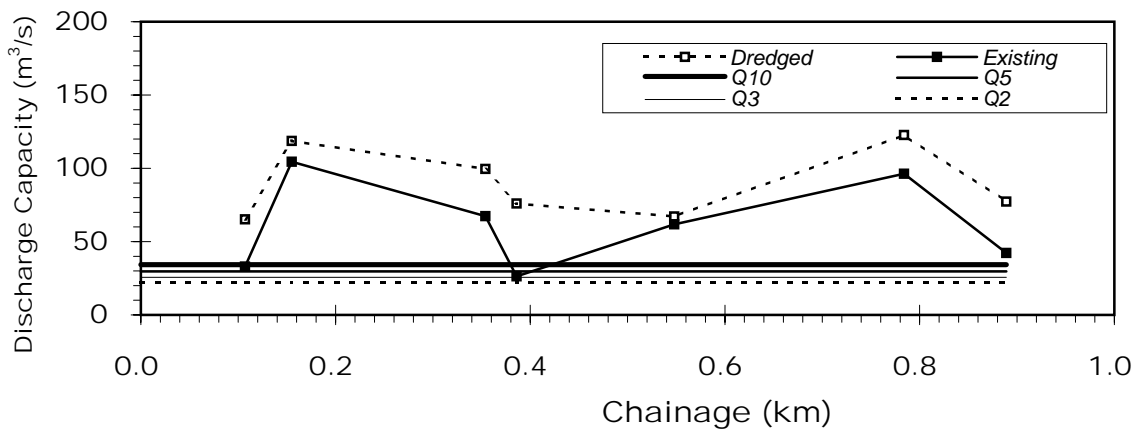
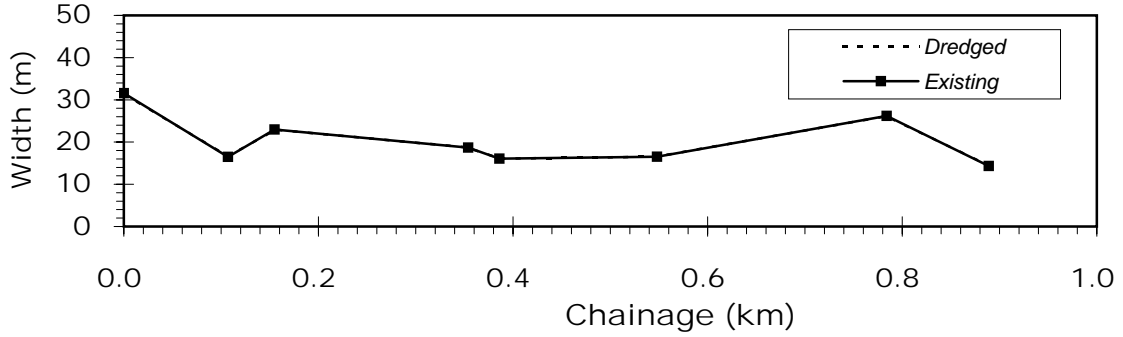
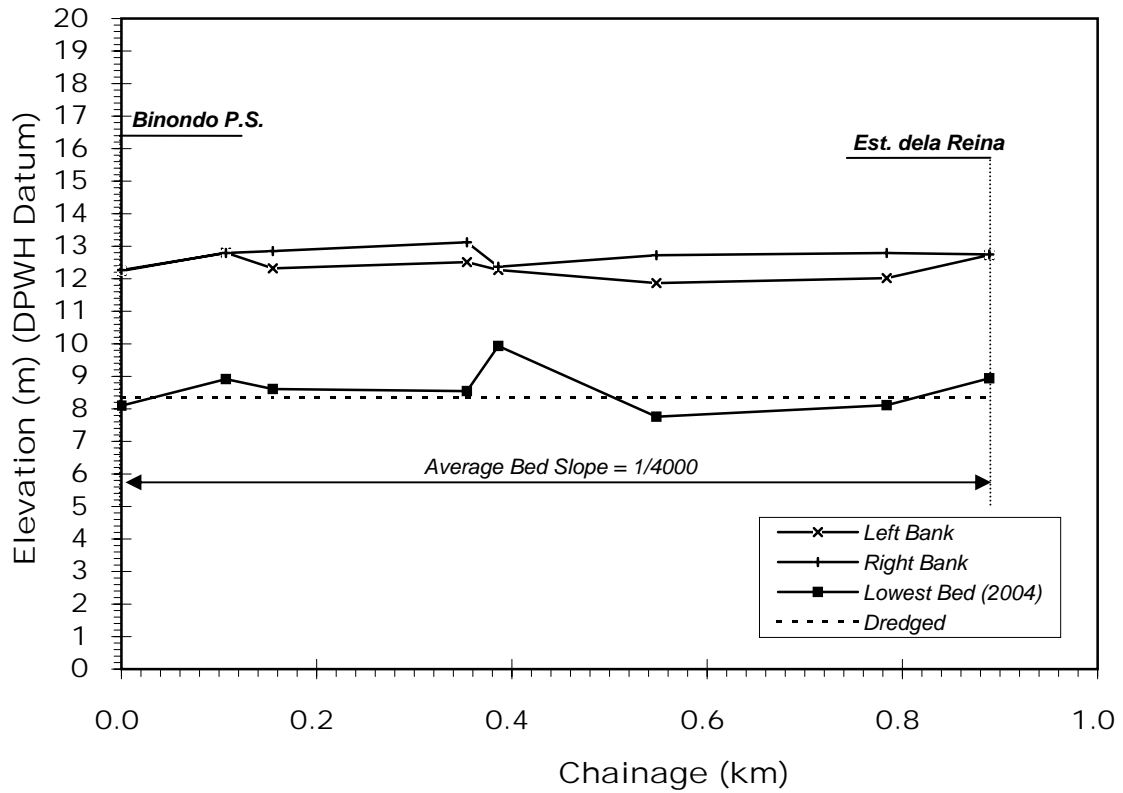
NE03 Casili Creek



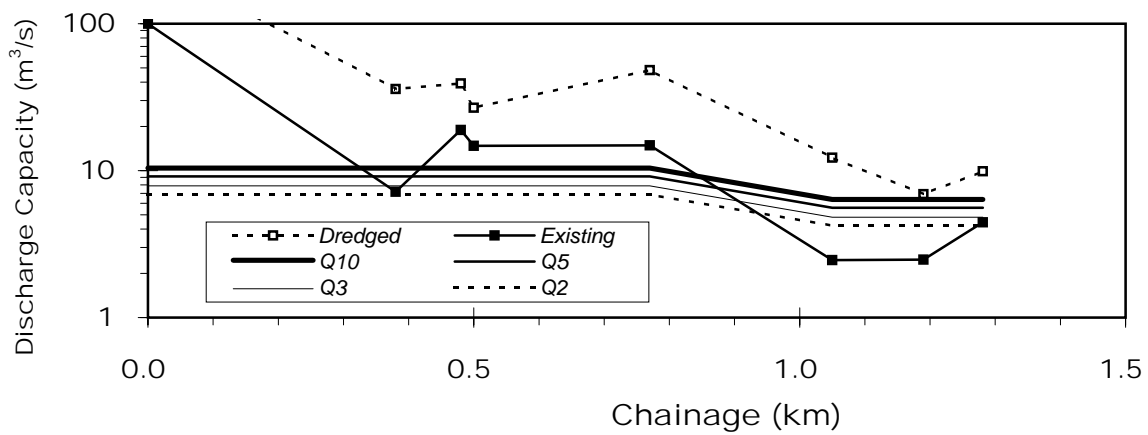
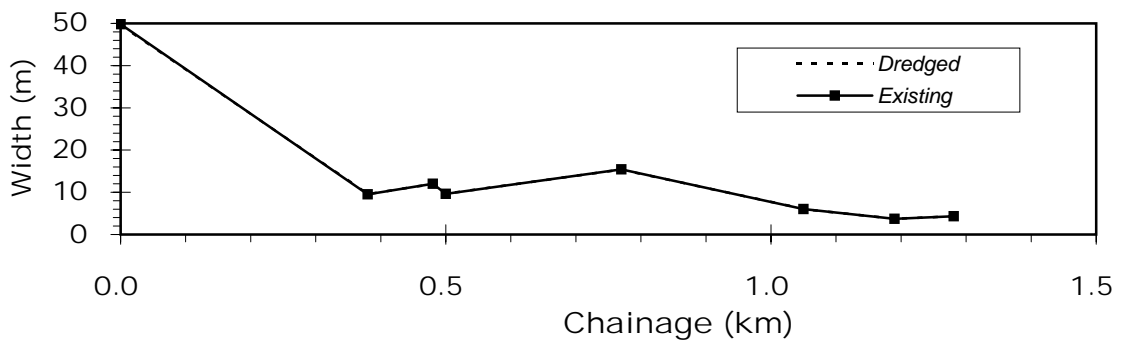
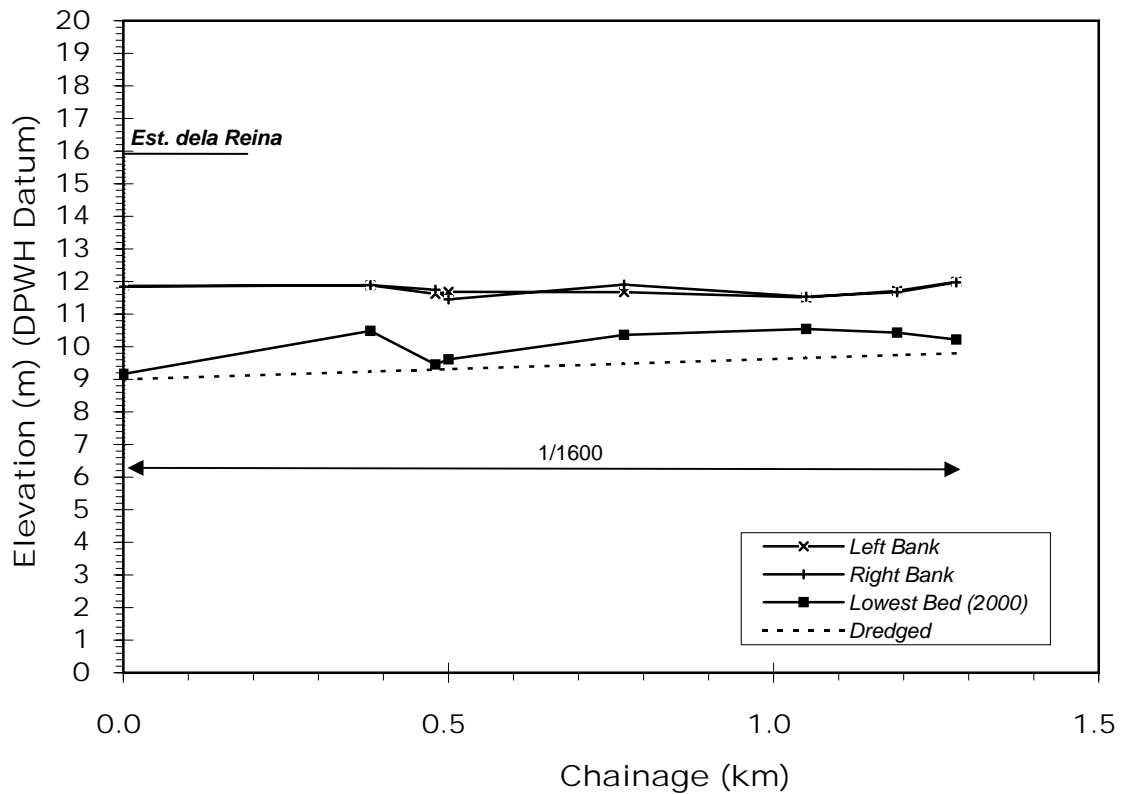
NE04 Estero dela Reina



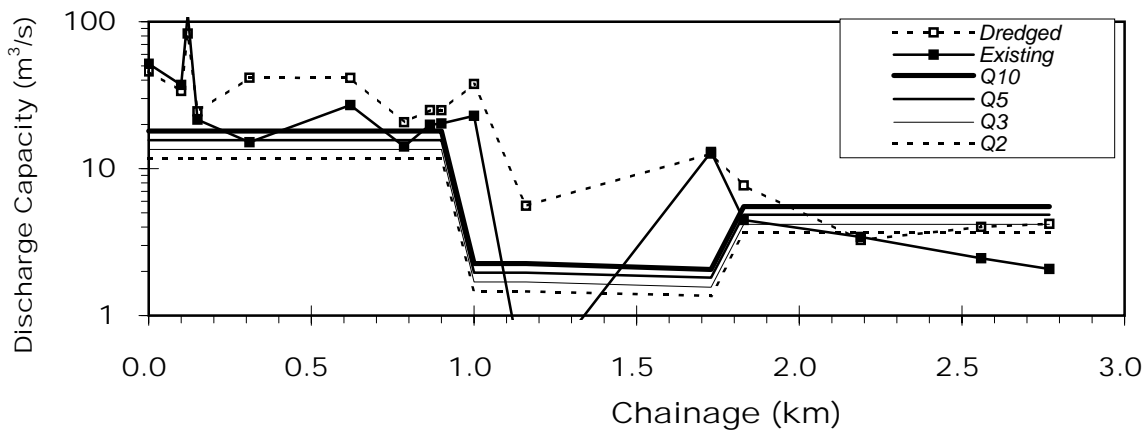
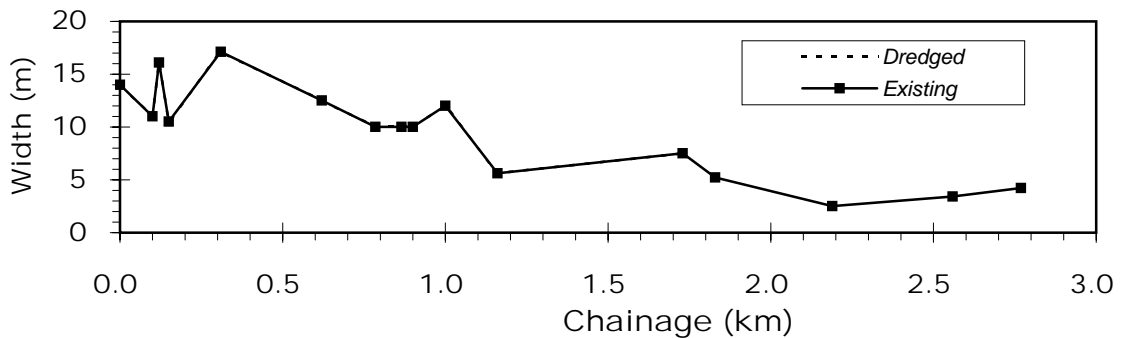
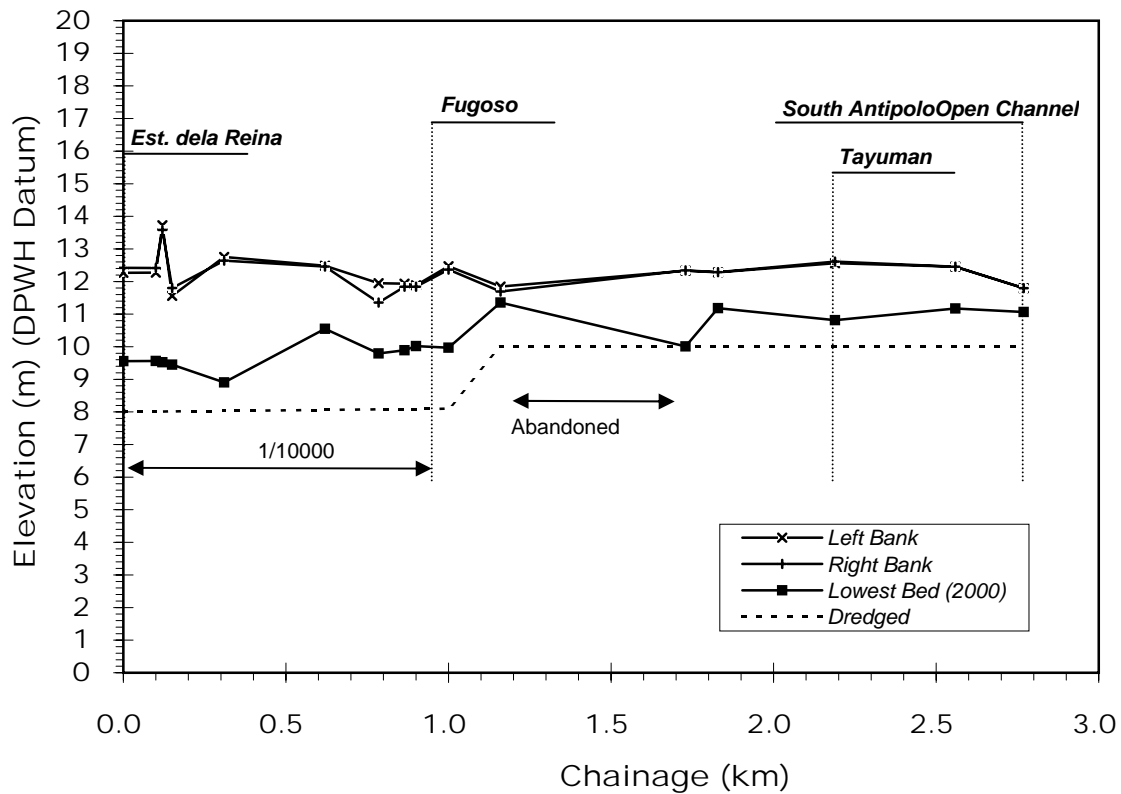
NE05 Estero de Binondo



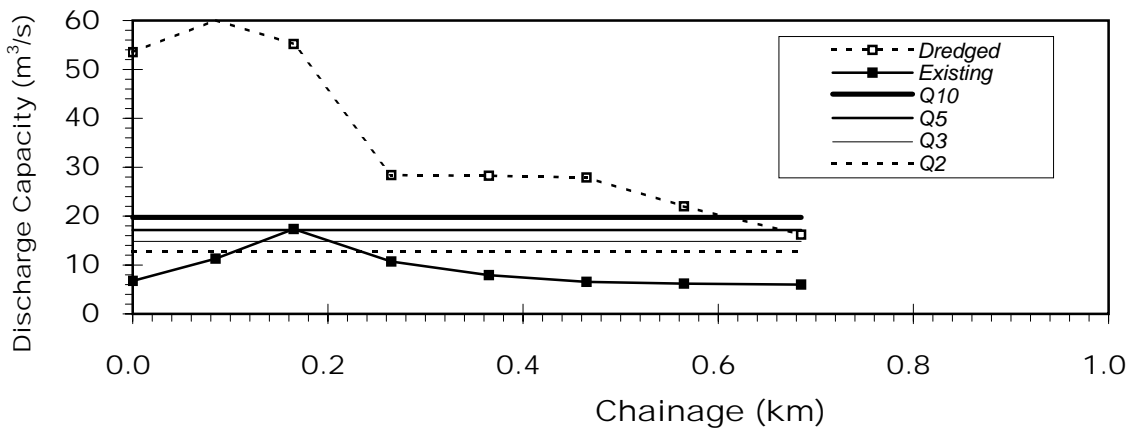
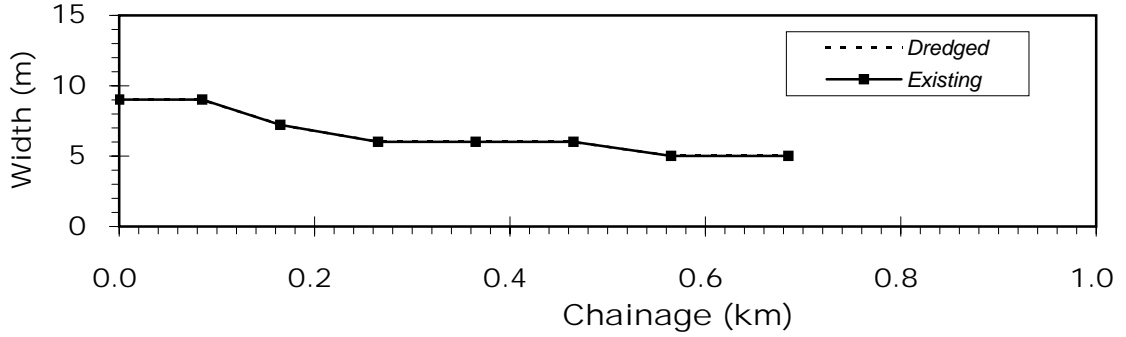
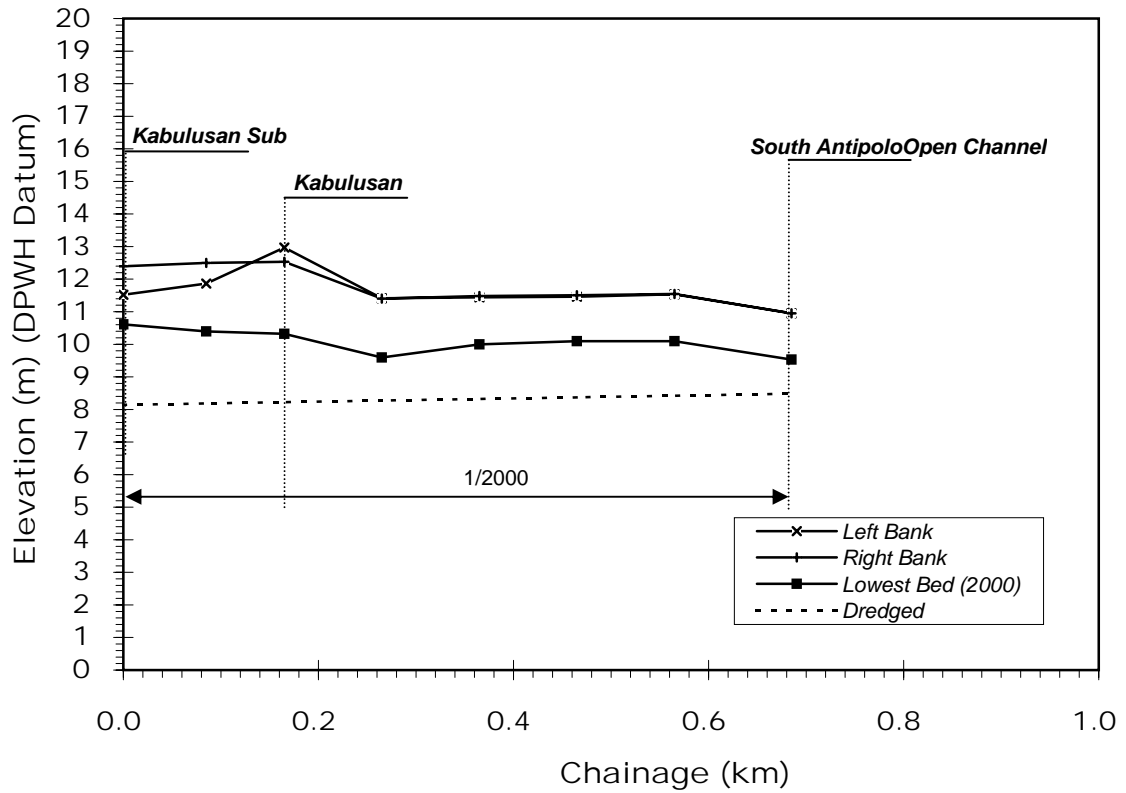
NE06 Estero de Magdalena



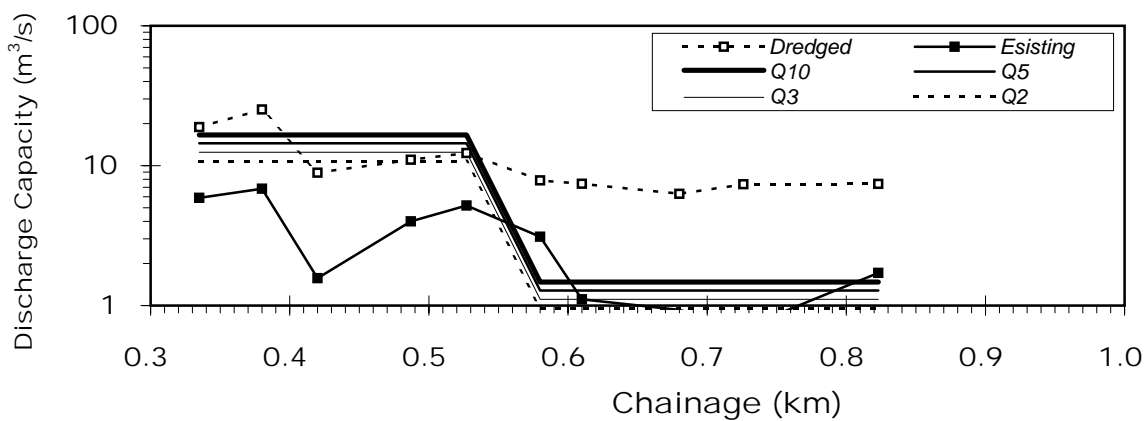
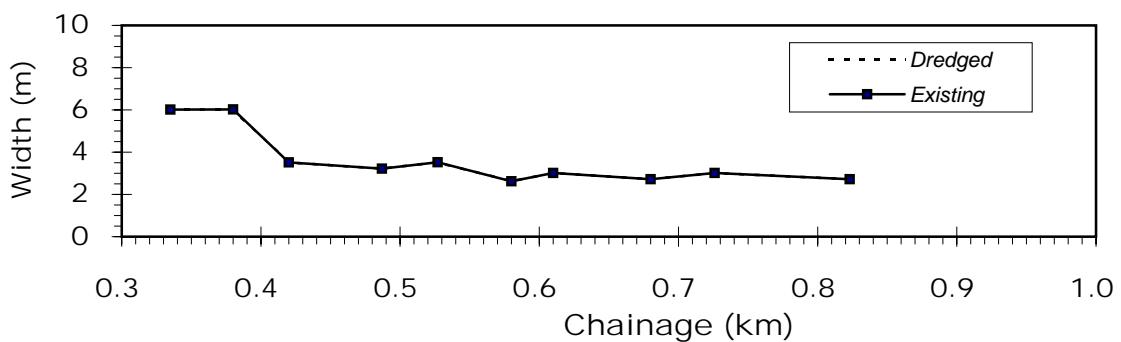
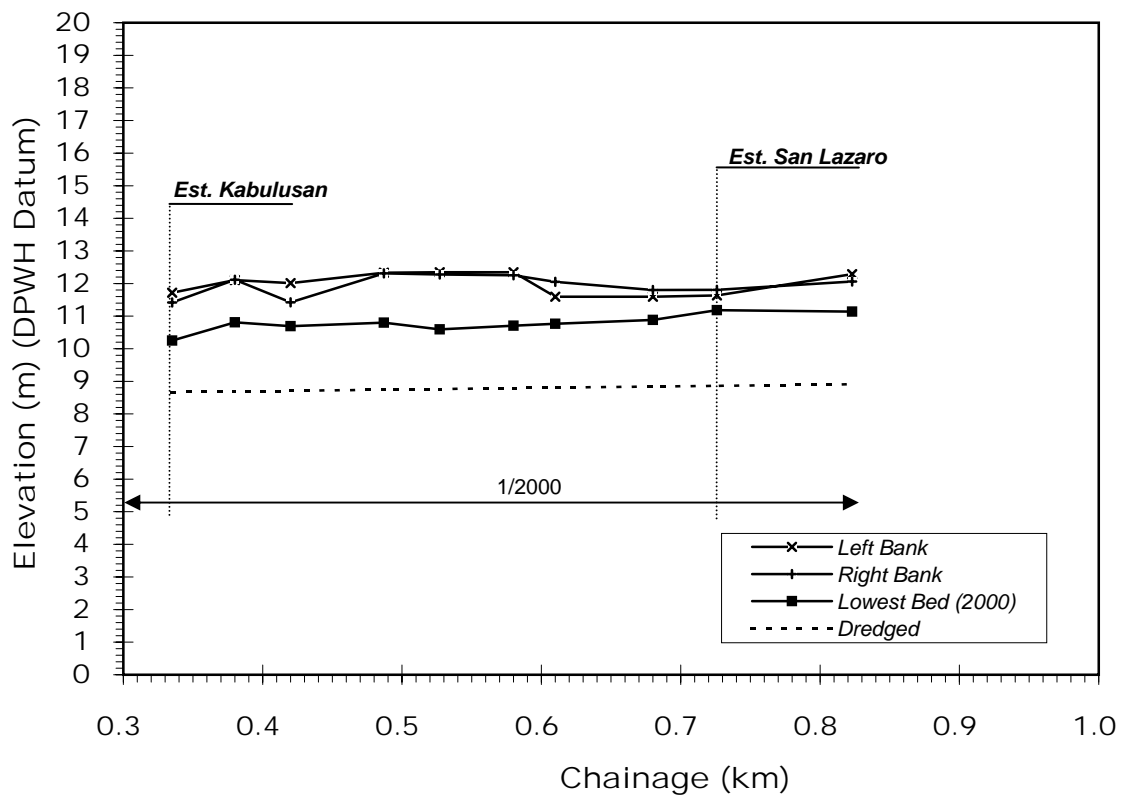
NE07 Estero de San Lazaro



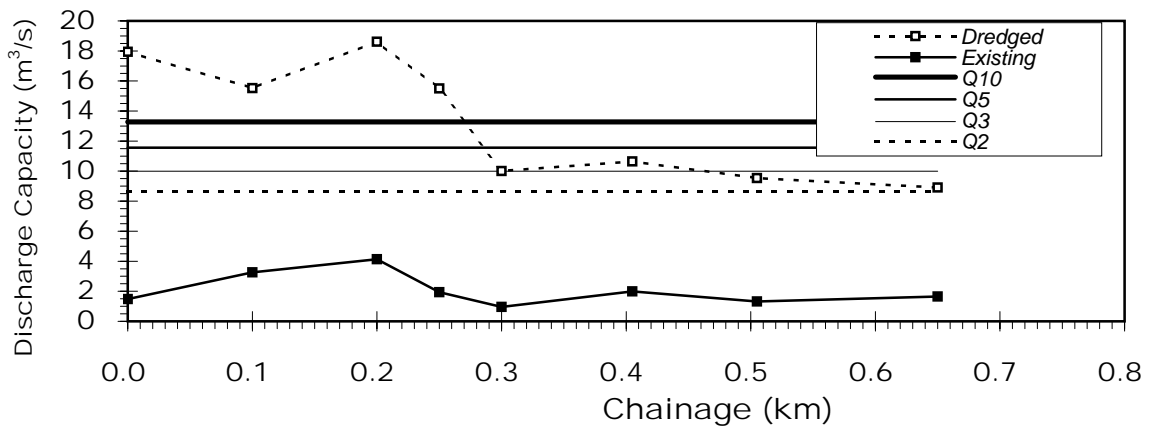
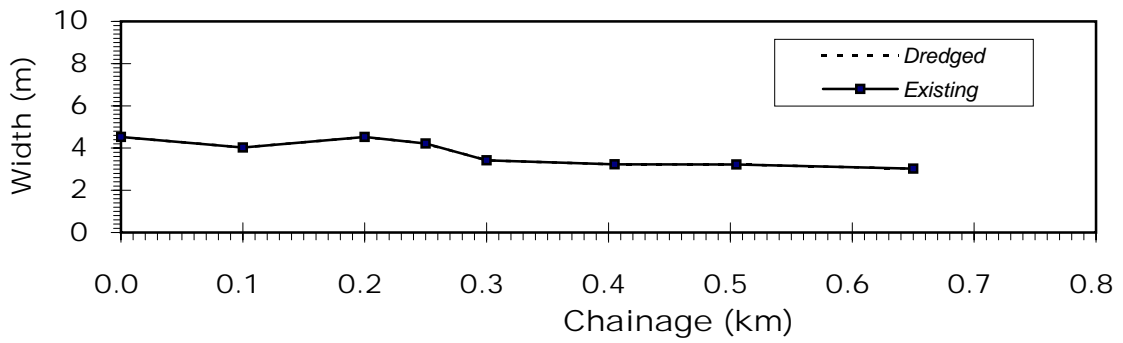
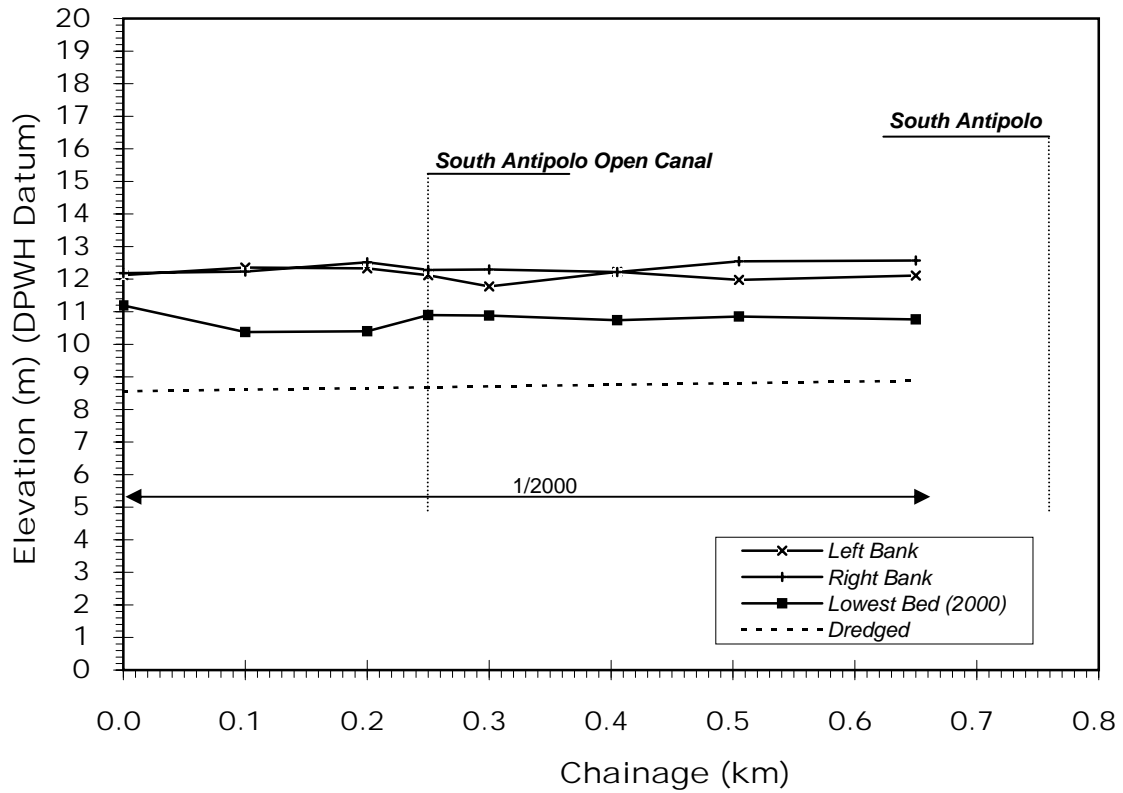
NE08 Estero de Kabulusan



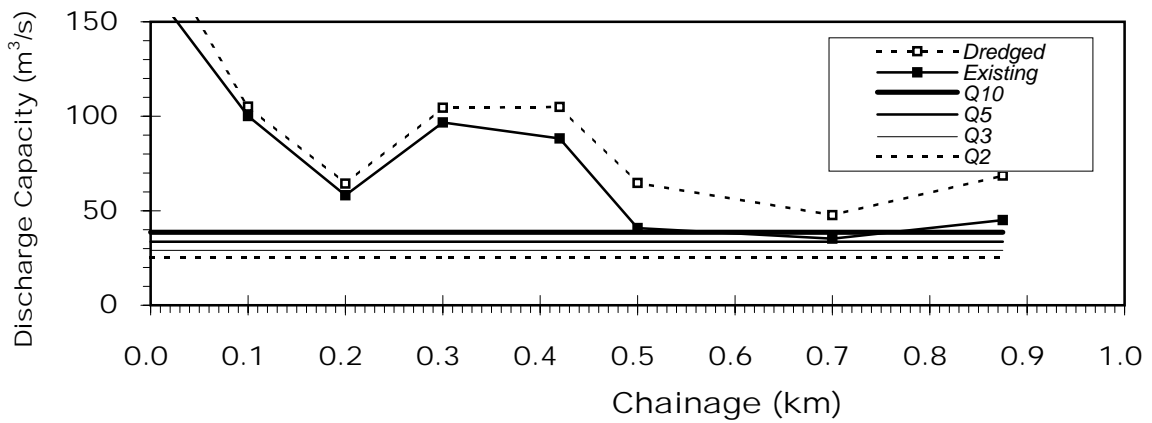
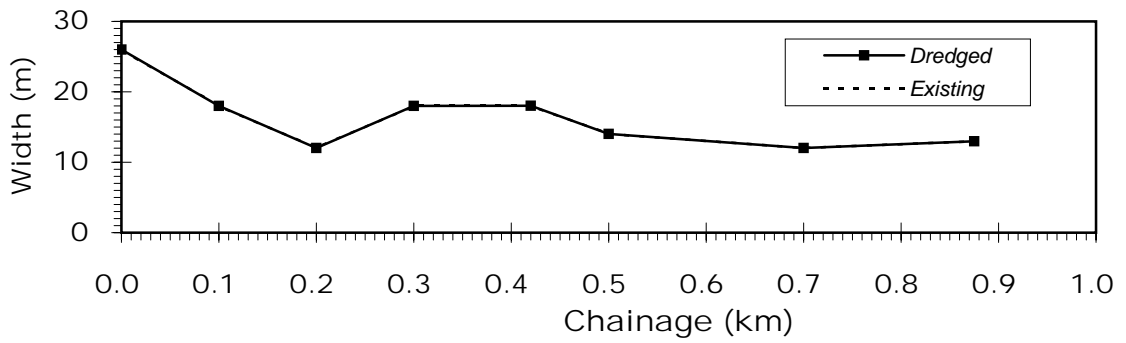
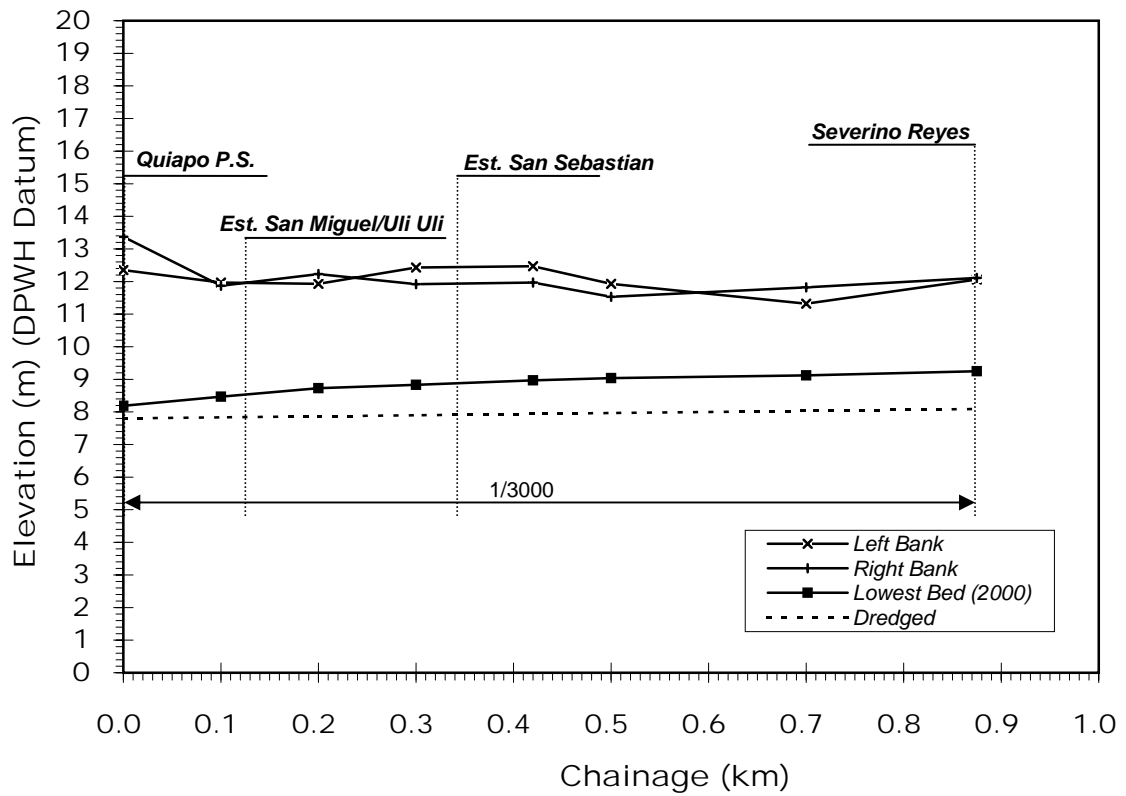
NE09 South Antipolo Open Canal



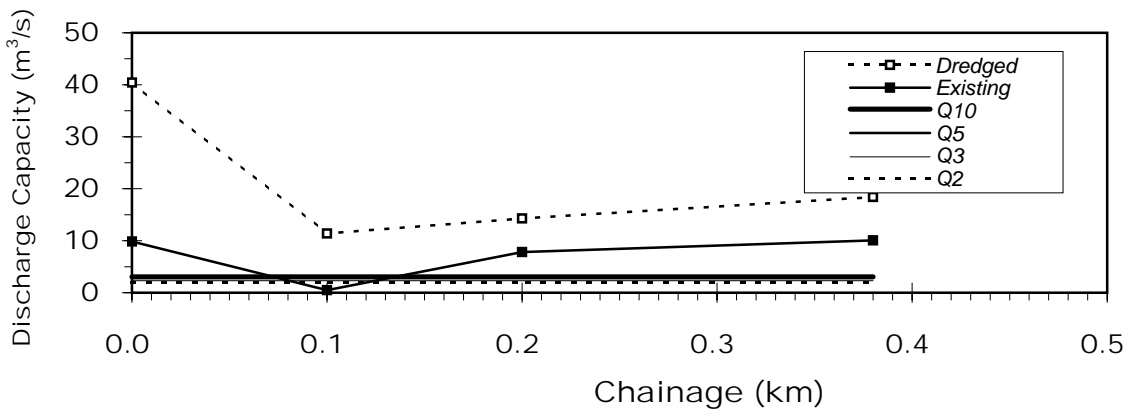
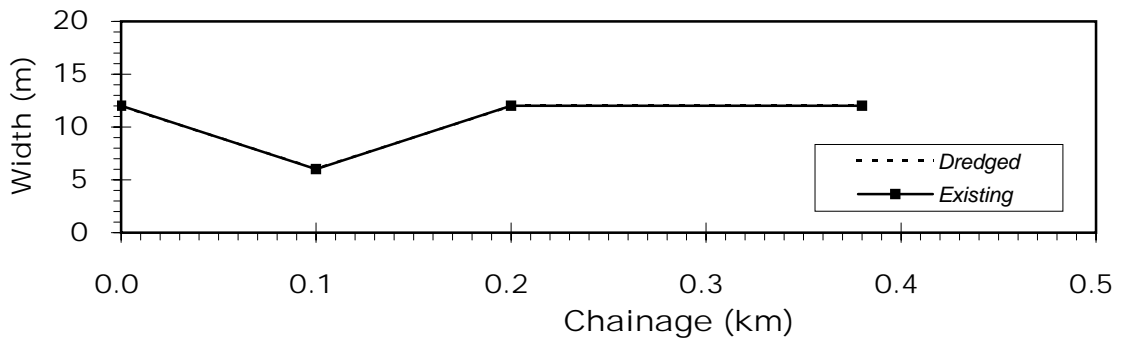
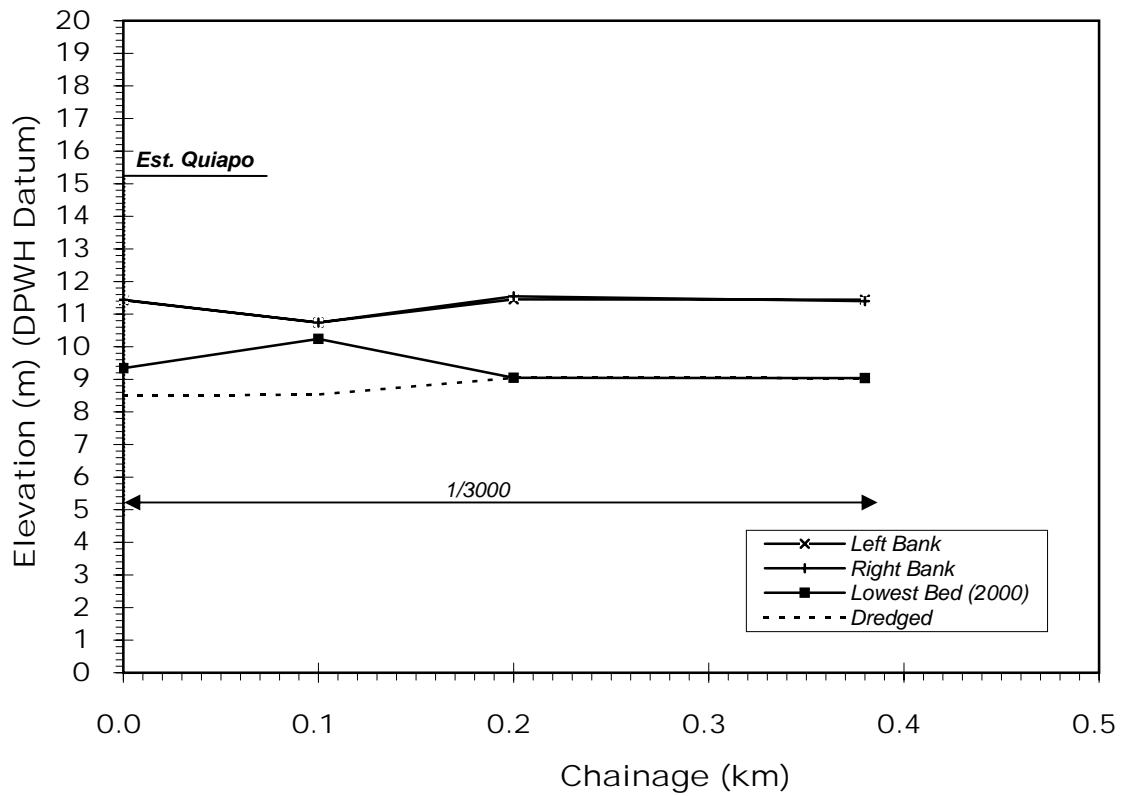
NE10 North Antipolo Open Canal



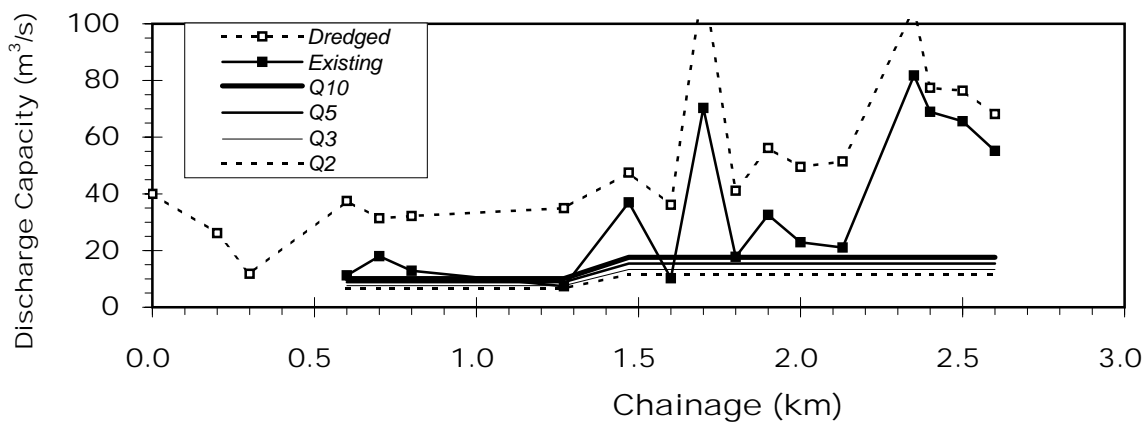
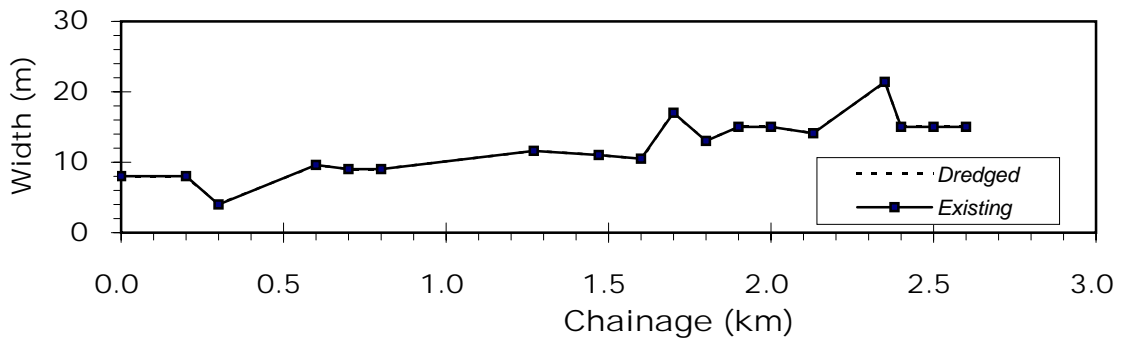
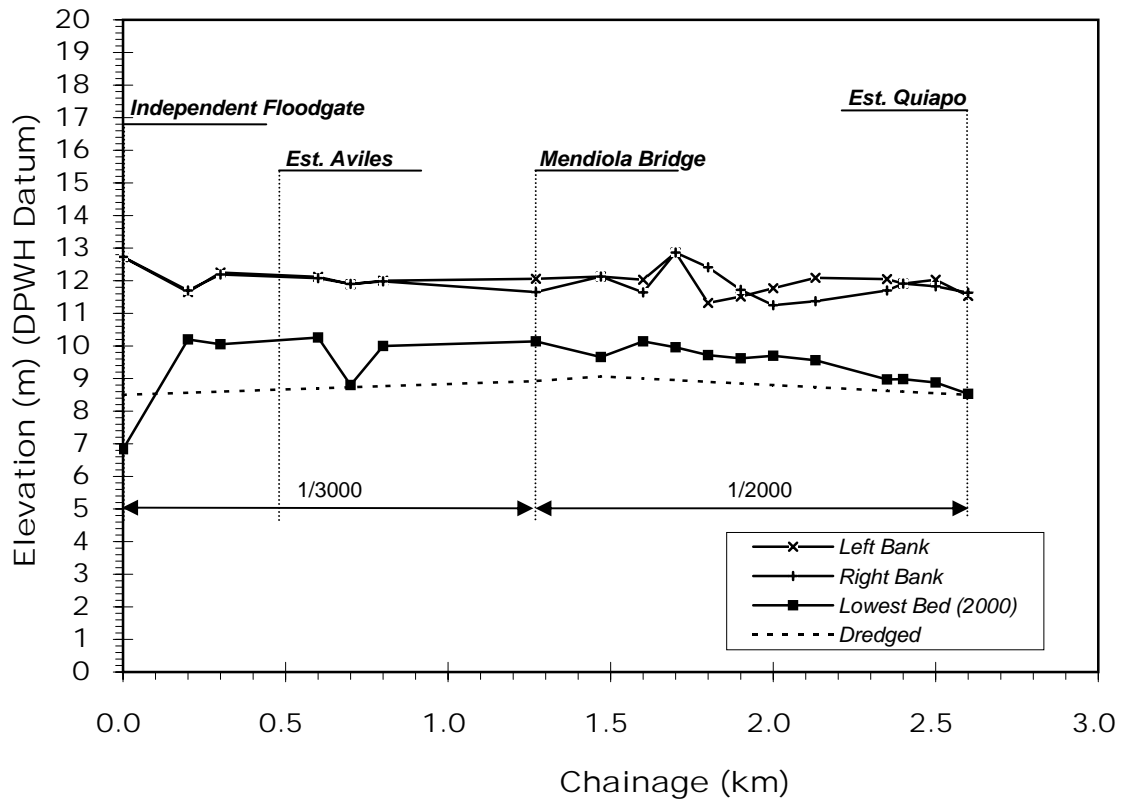
NE12 Estero de Quiapo



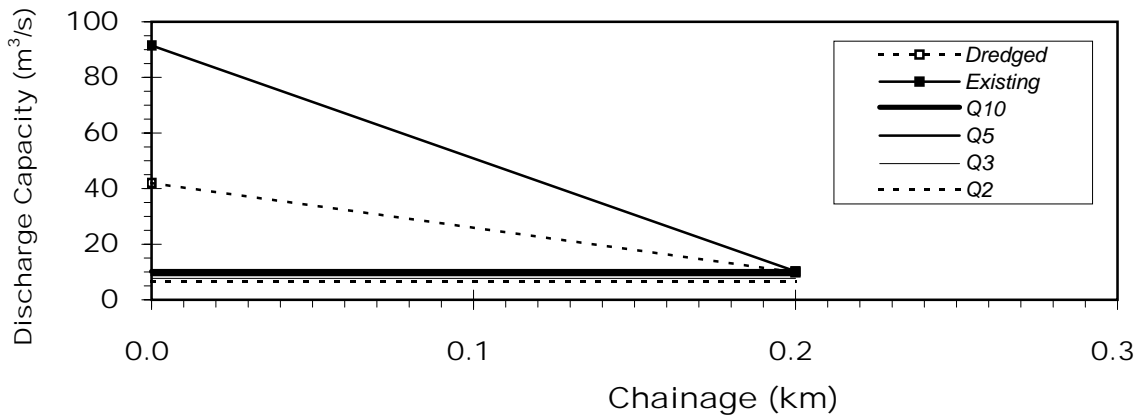
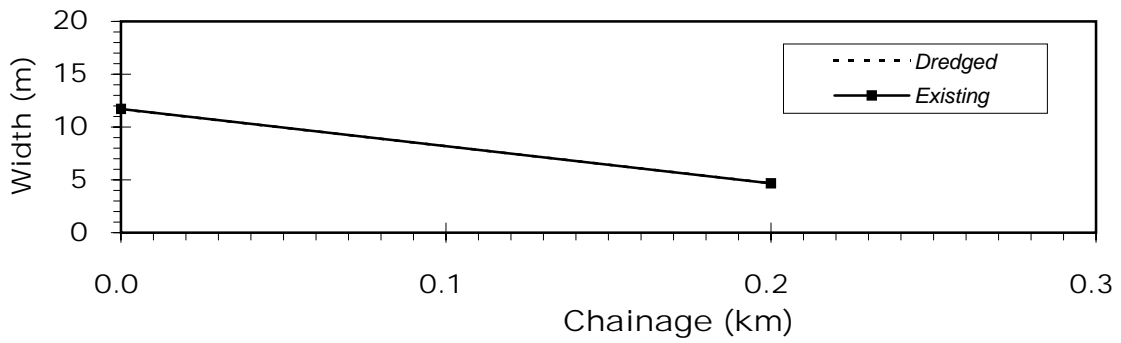
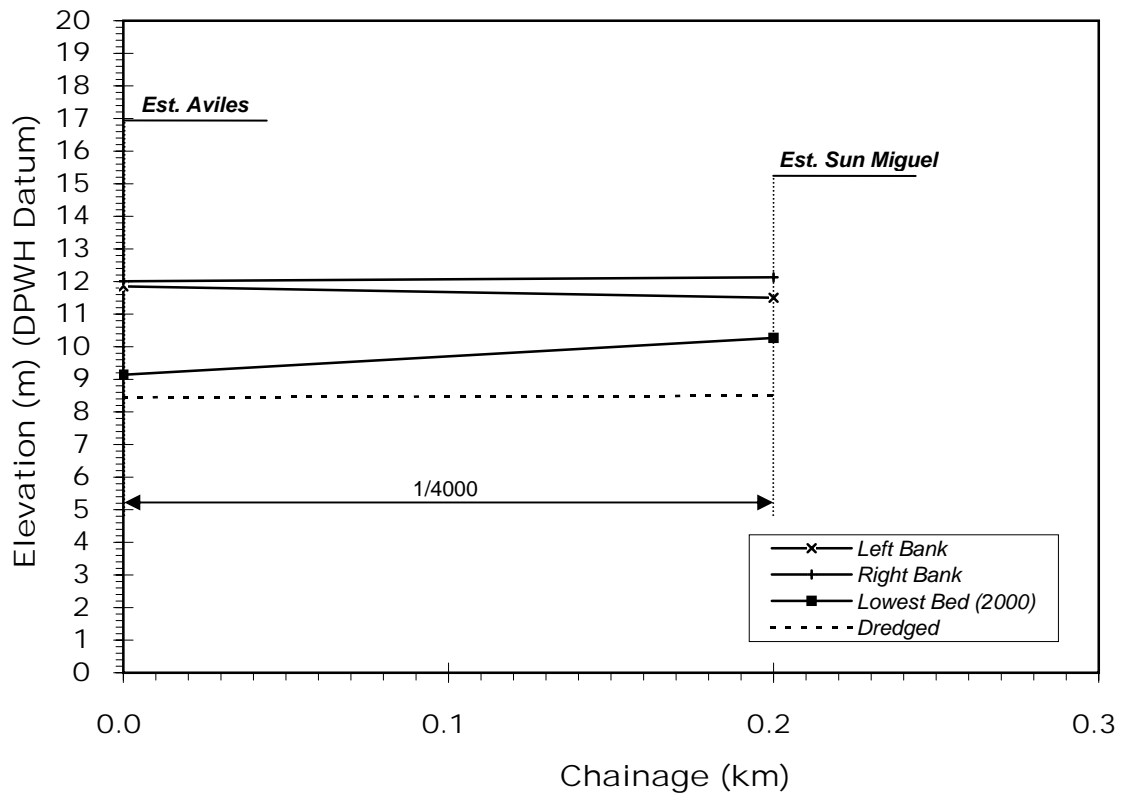
NE13 Estero de San Sebastian



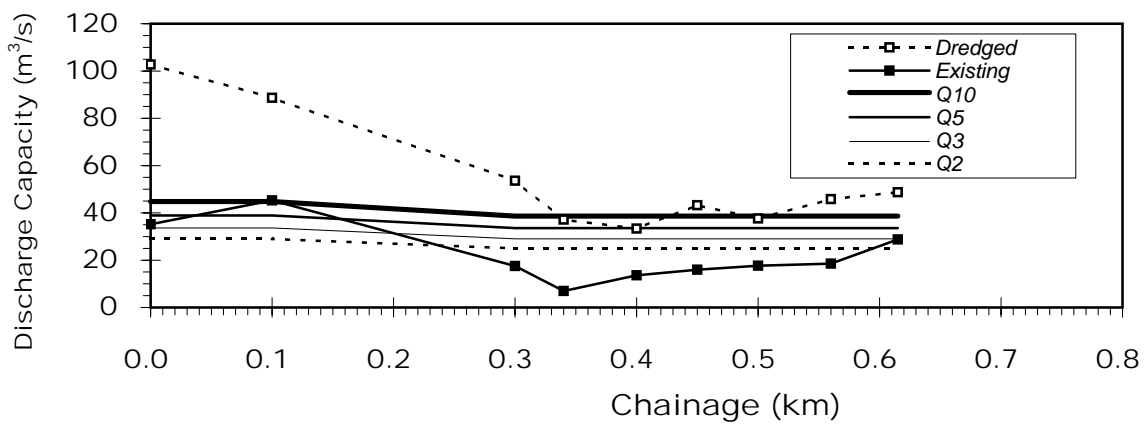
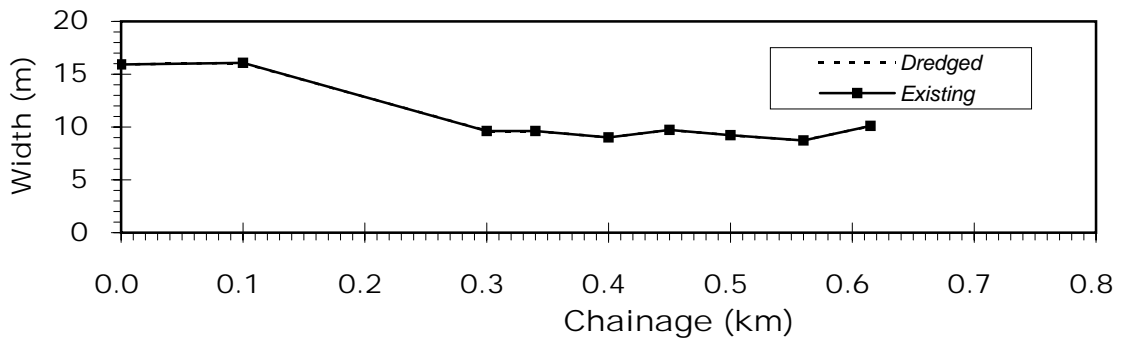
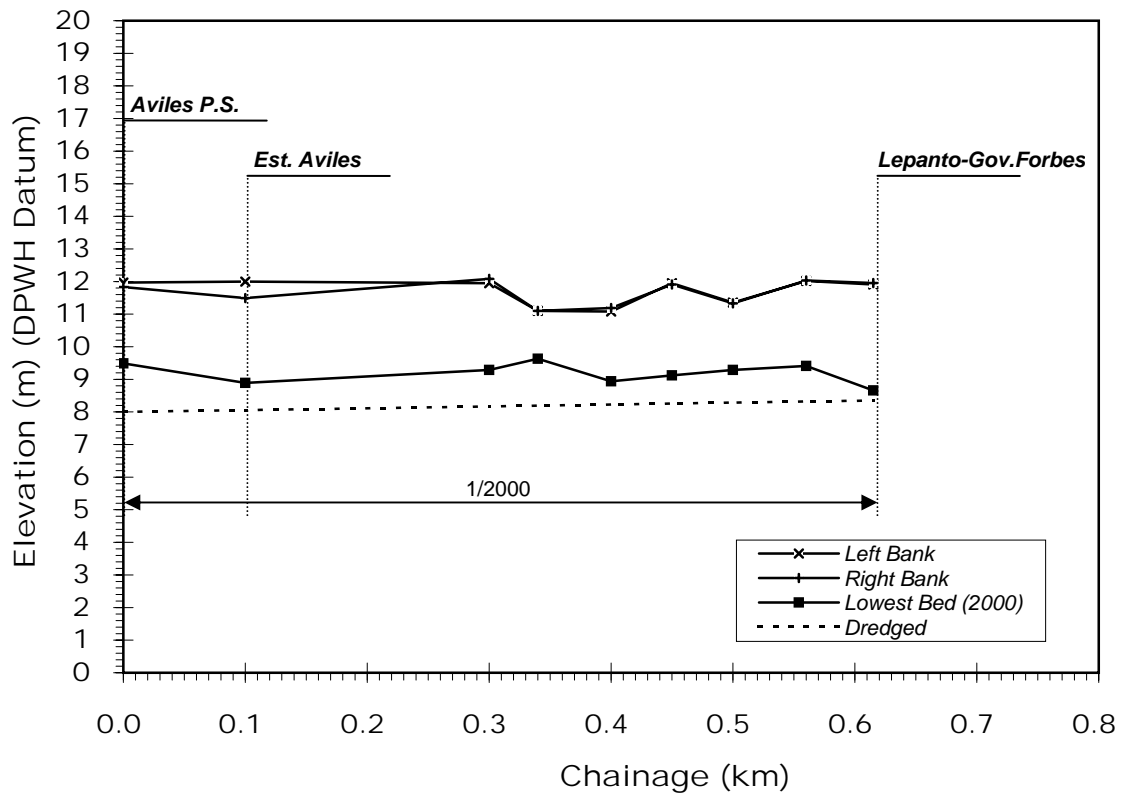
NE14 Estero de San Miguel



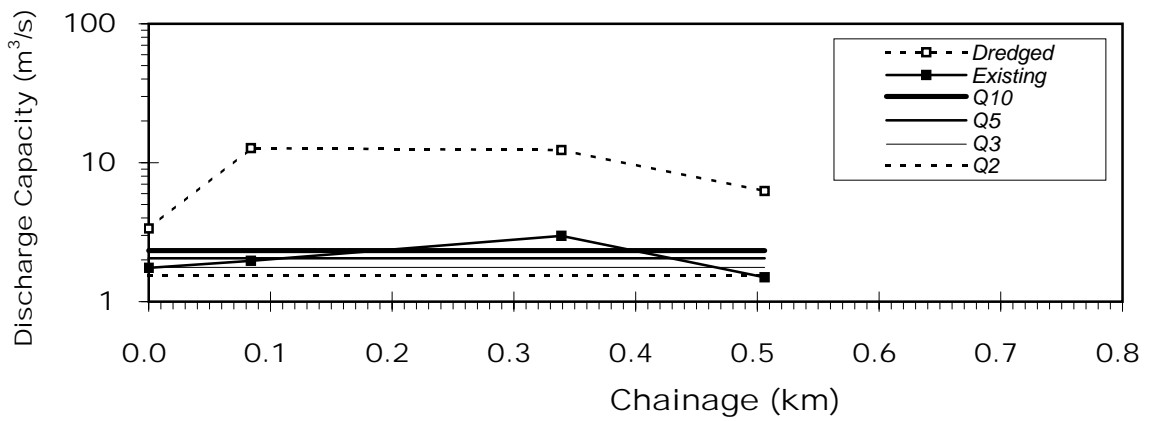
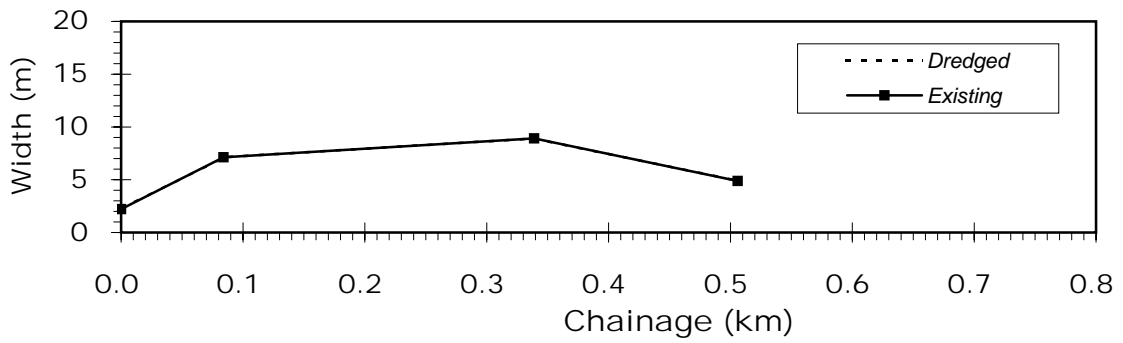
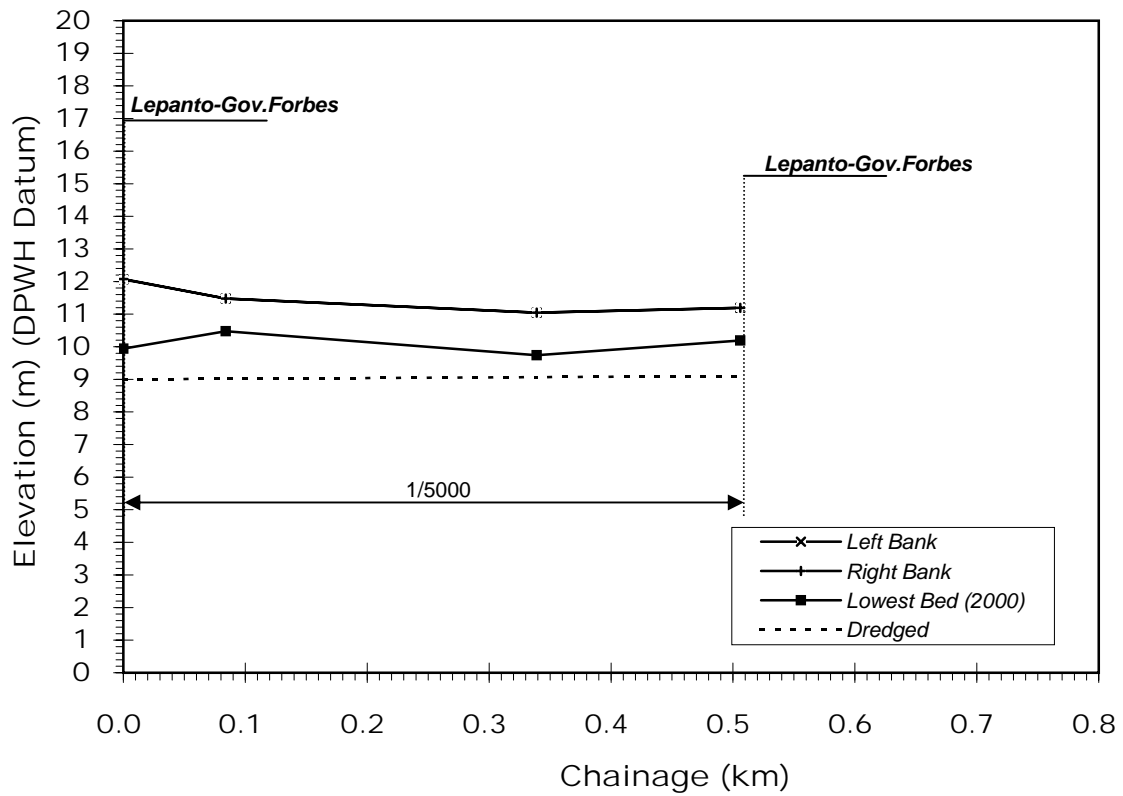
NE16 Estero de Aviles



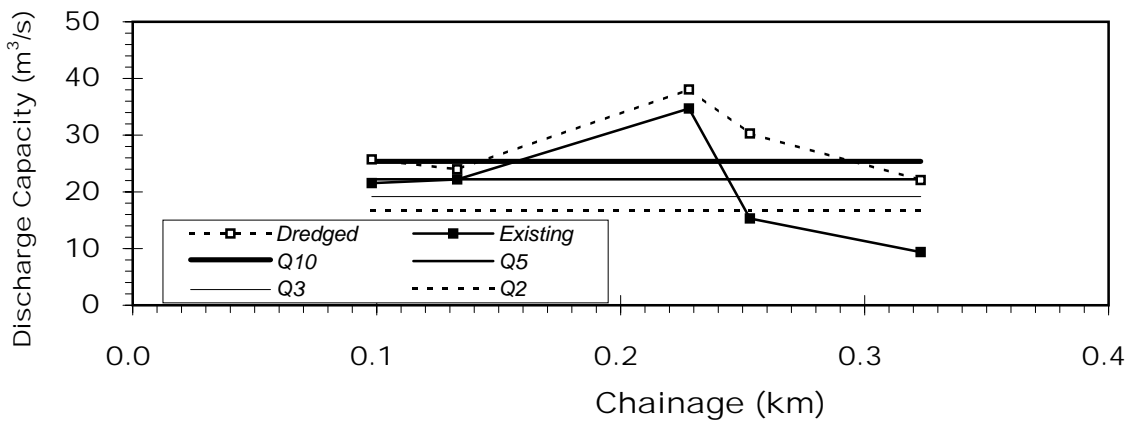
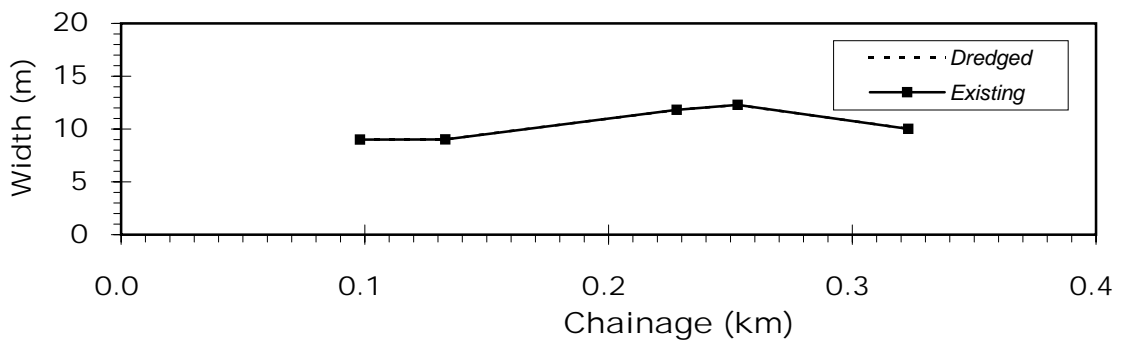
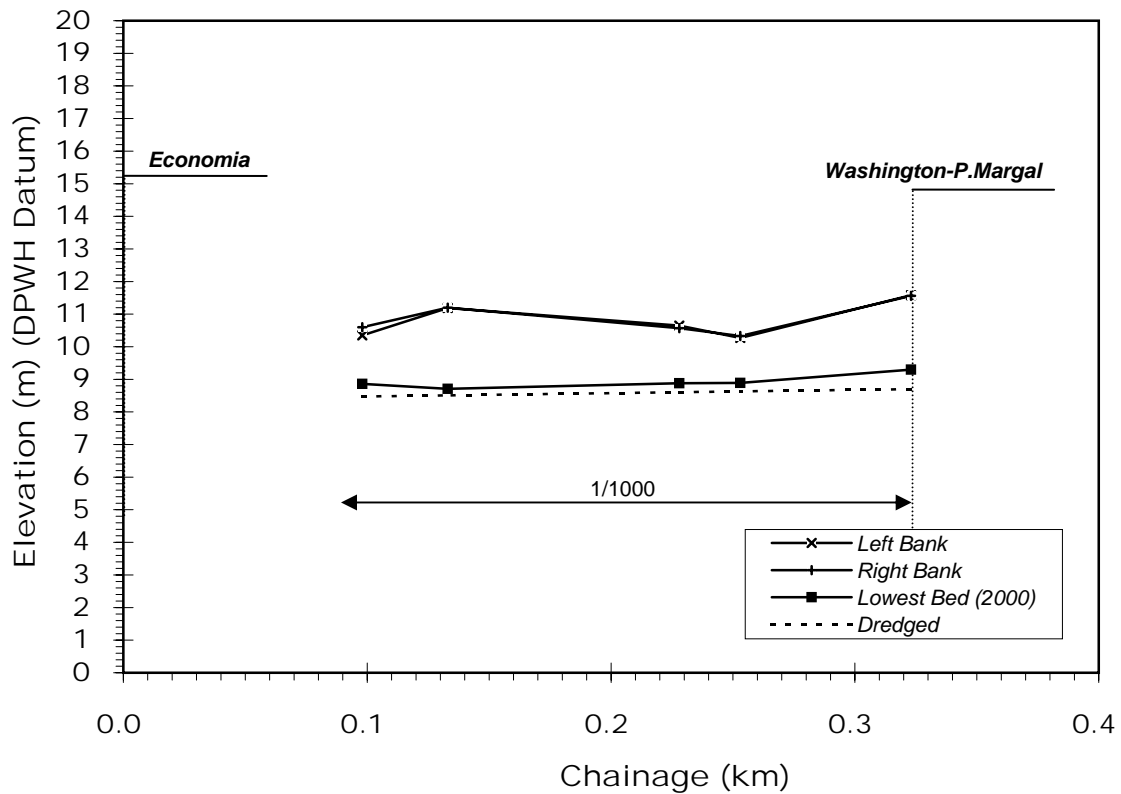
NE17 Estero de Sampaloc I



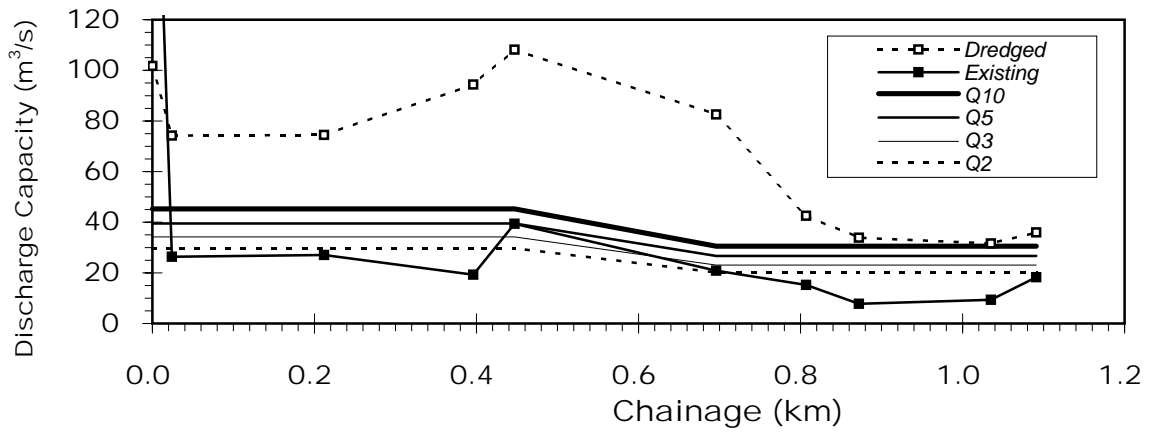
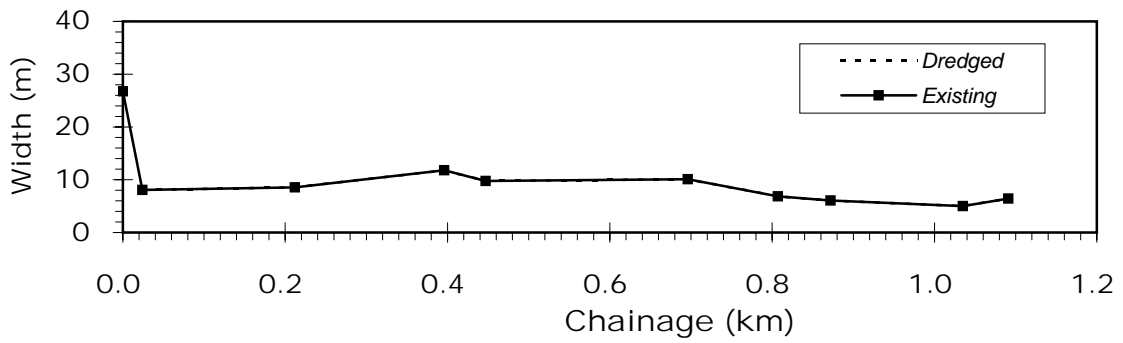
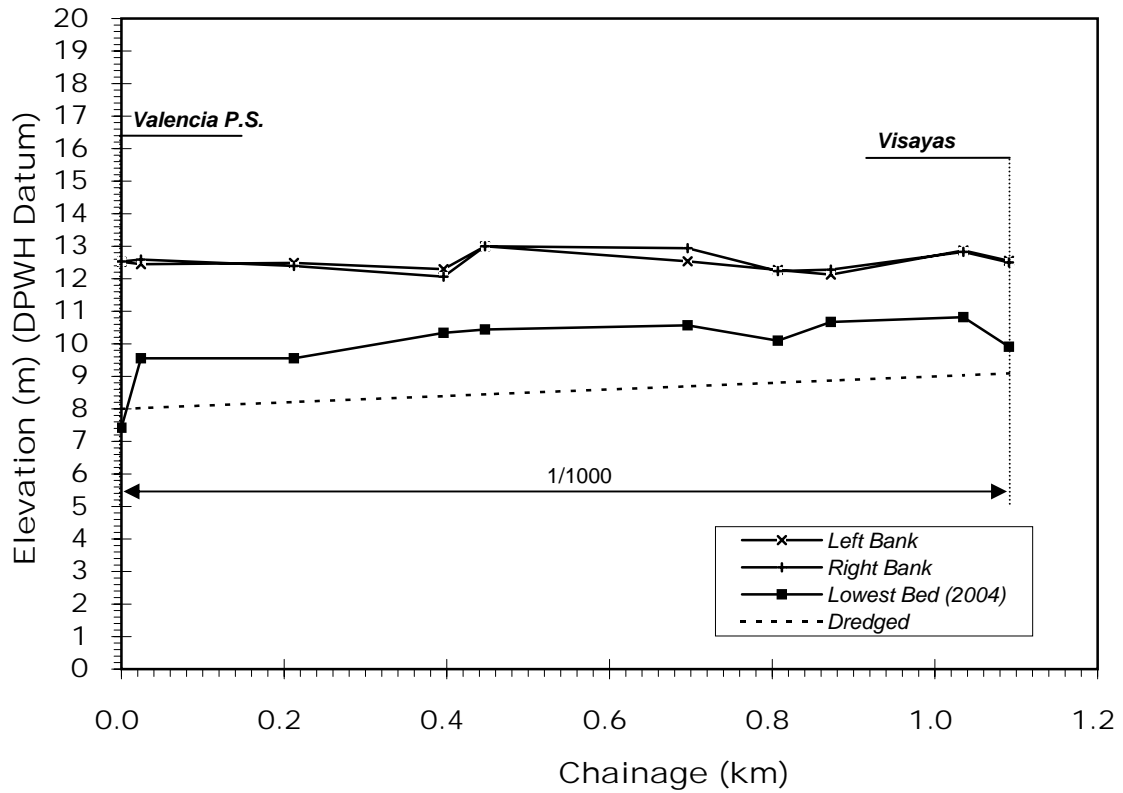
NE18 Estero de Sampaloc II



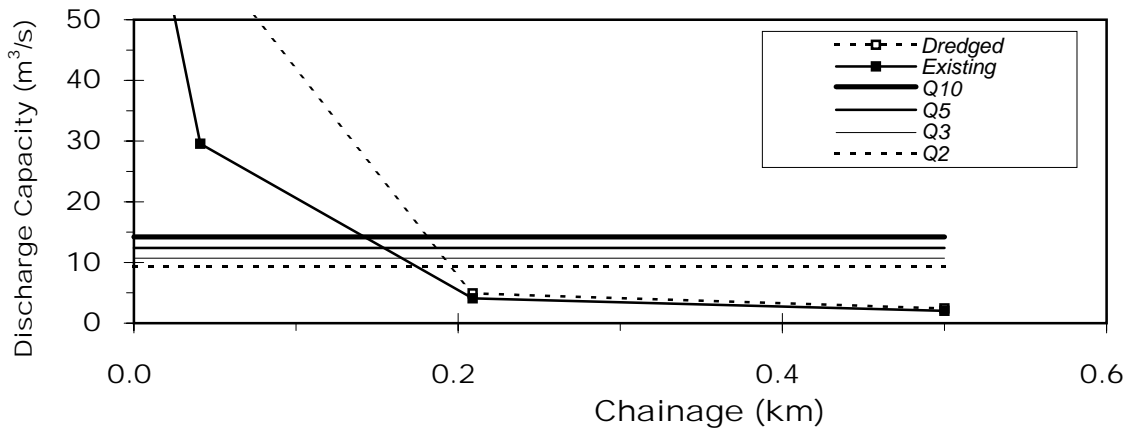
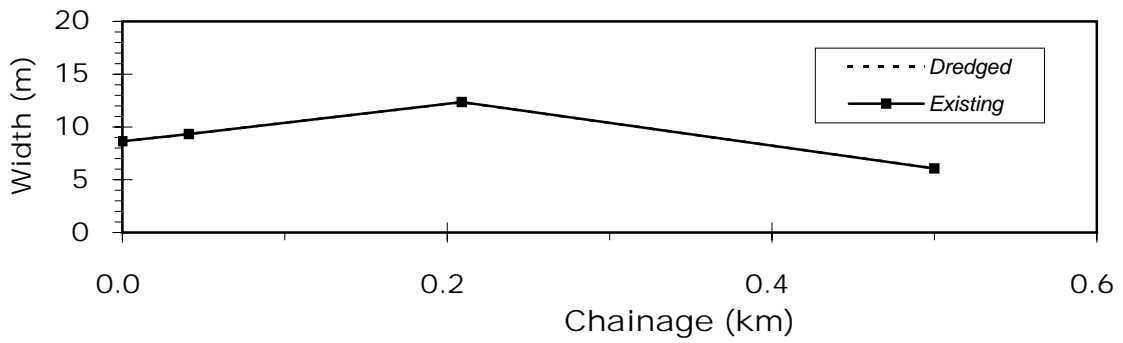
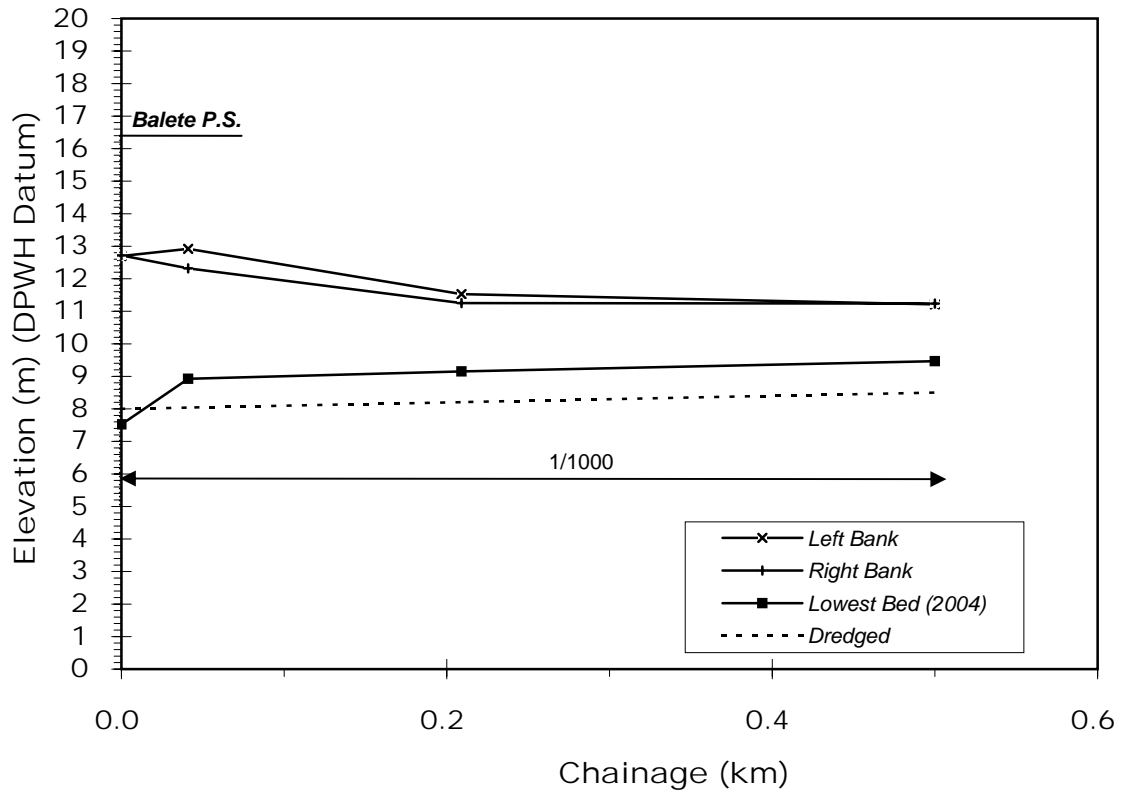
NE19 Estero de Kalubcob



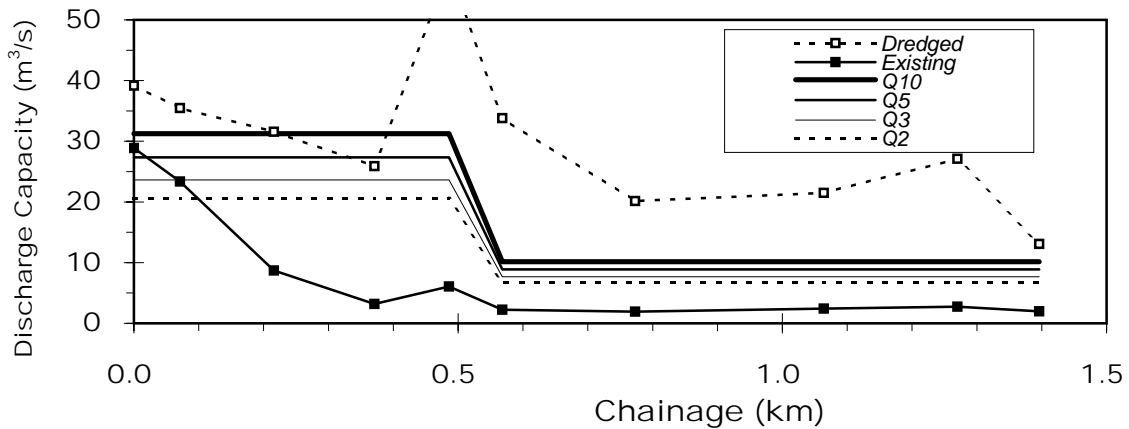
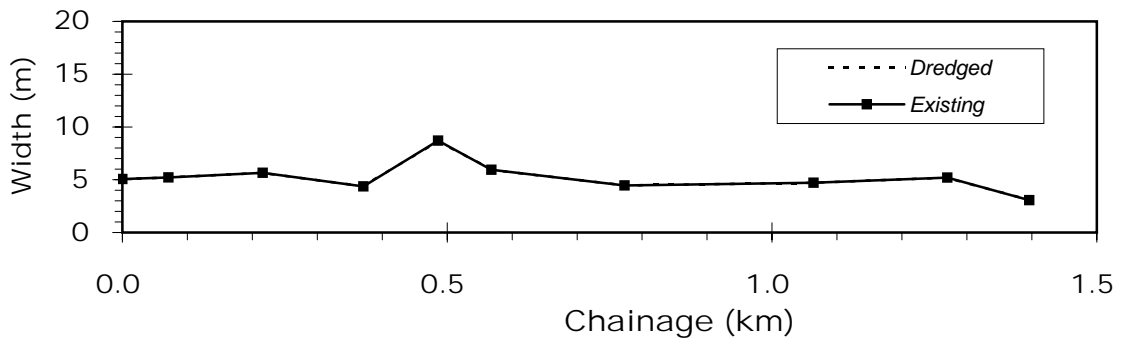
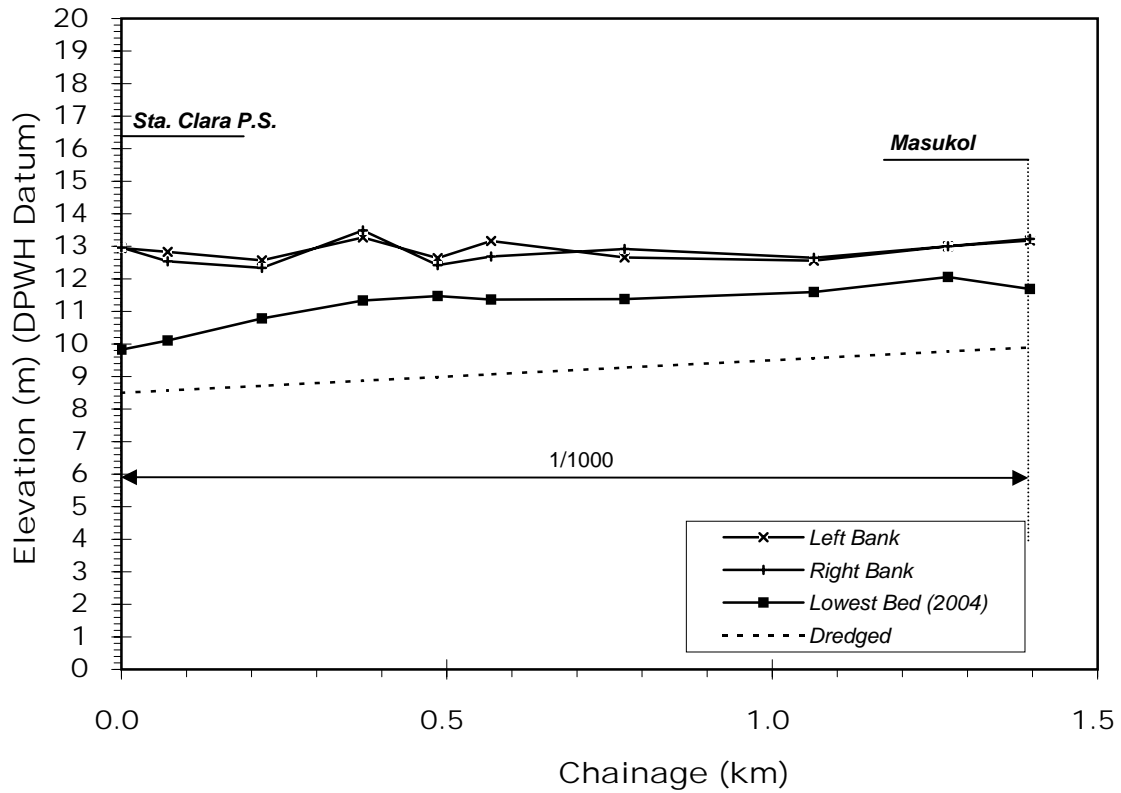
NE20 Estero de Valencia



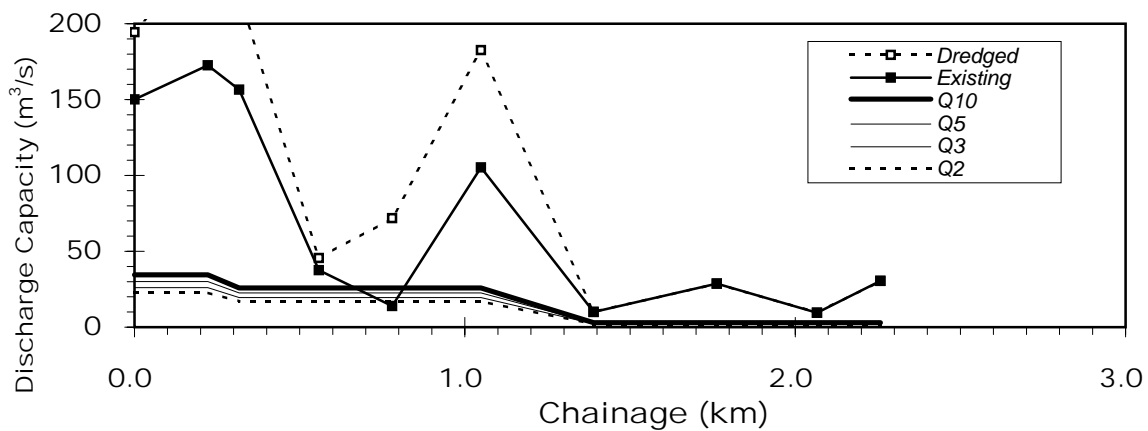
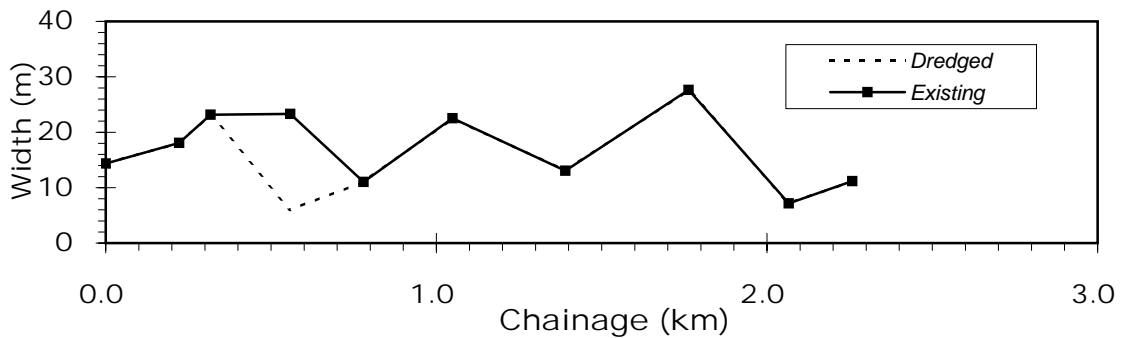
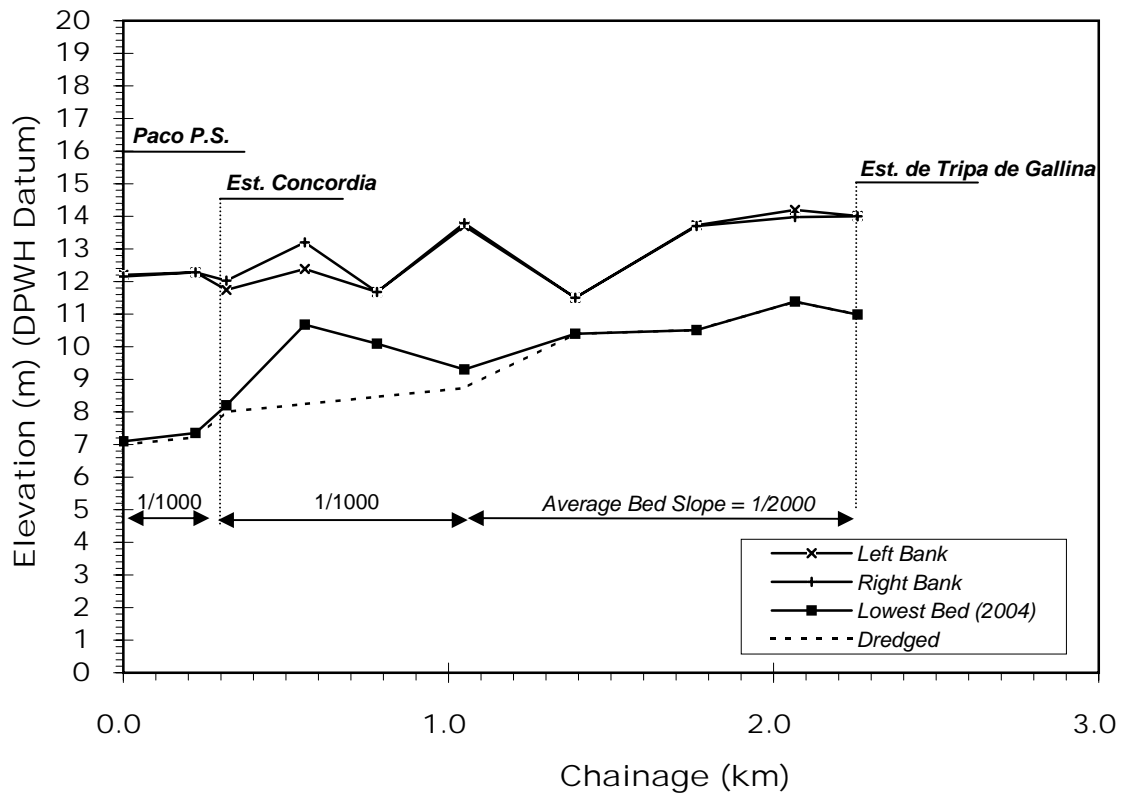
SE03 Estero de Balete



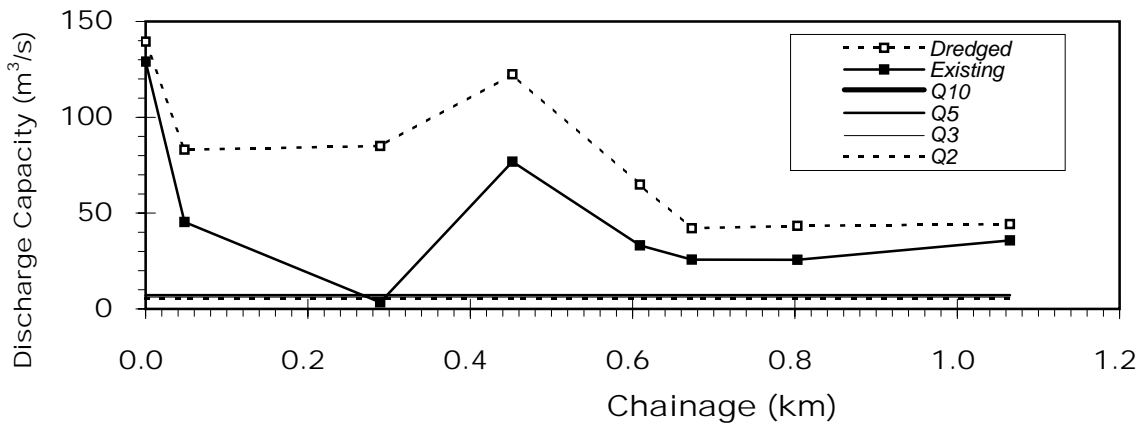
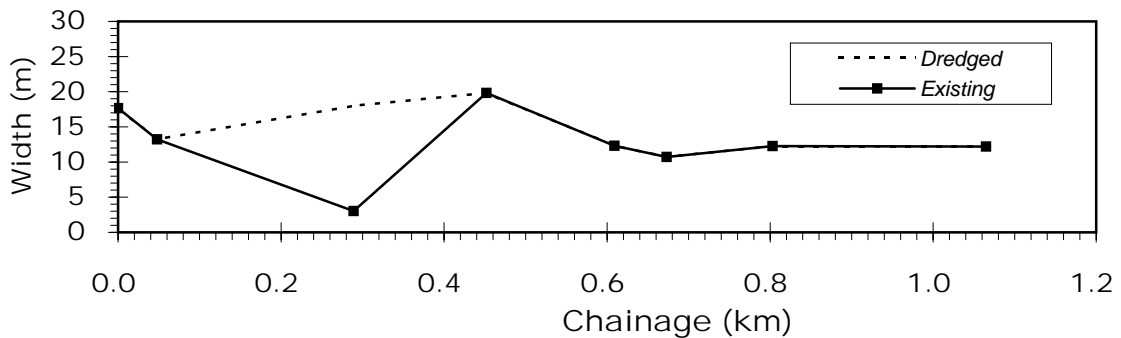
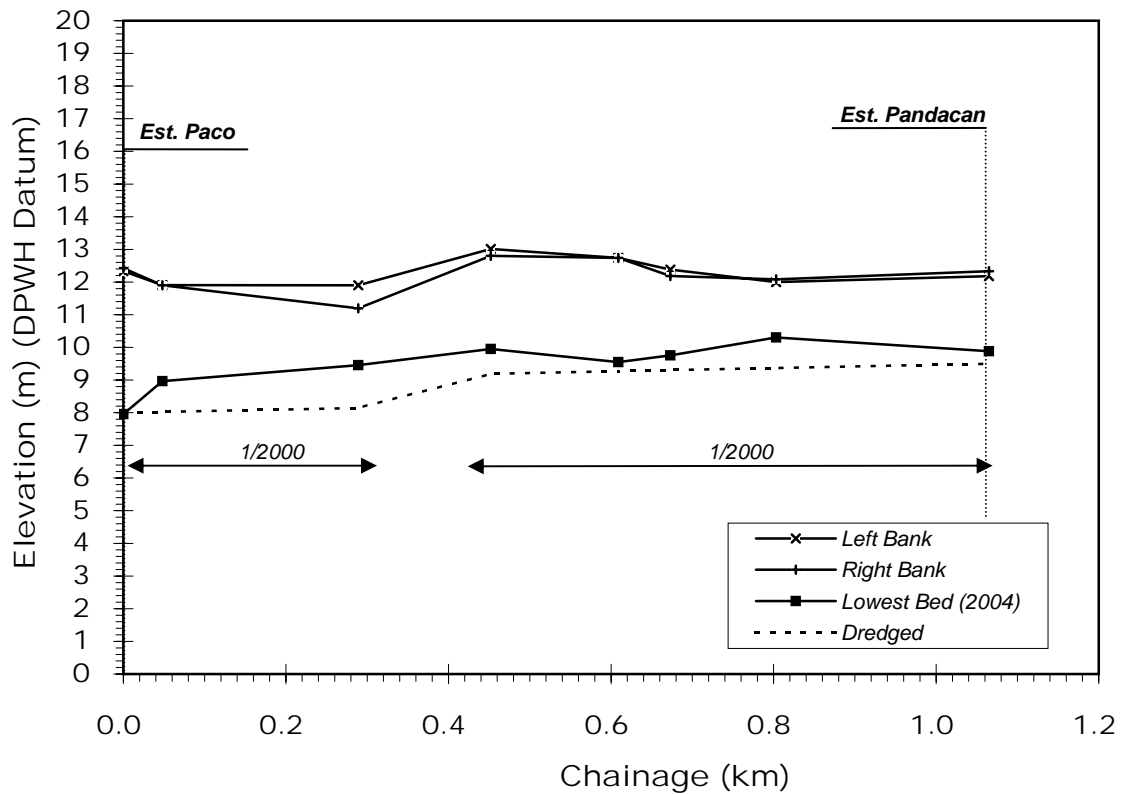
SE05 Santa Clara Creek



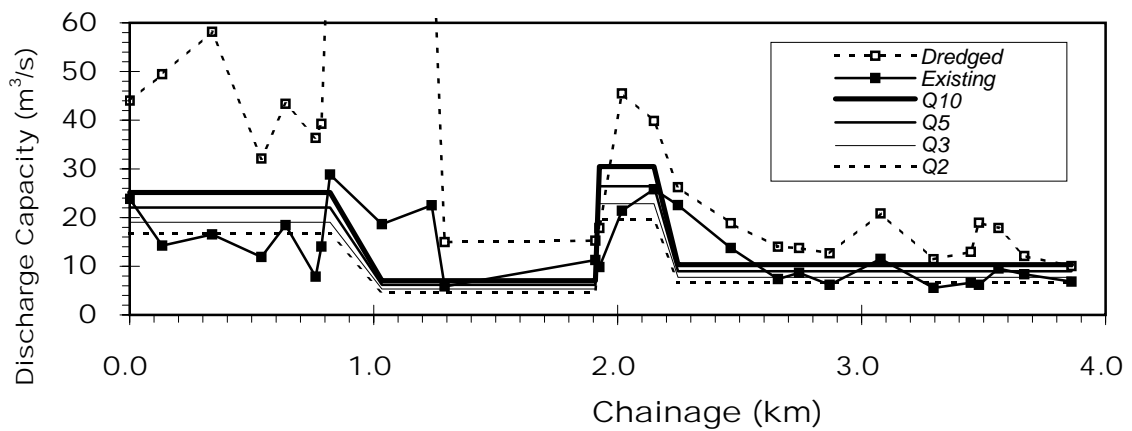
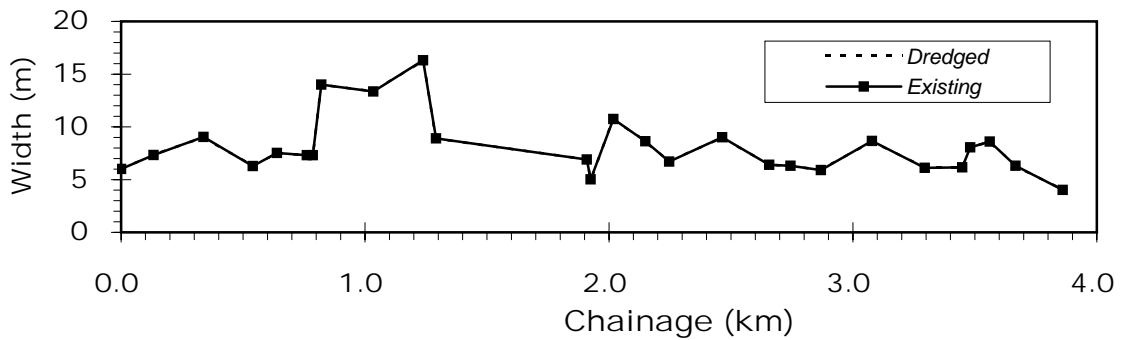
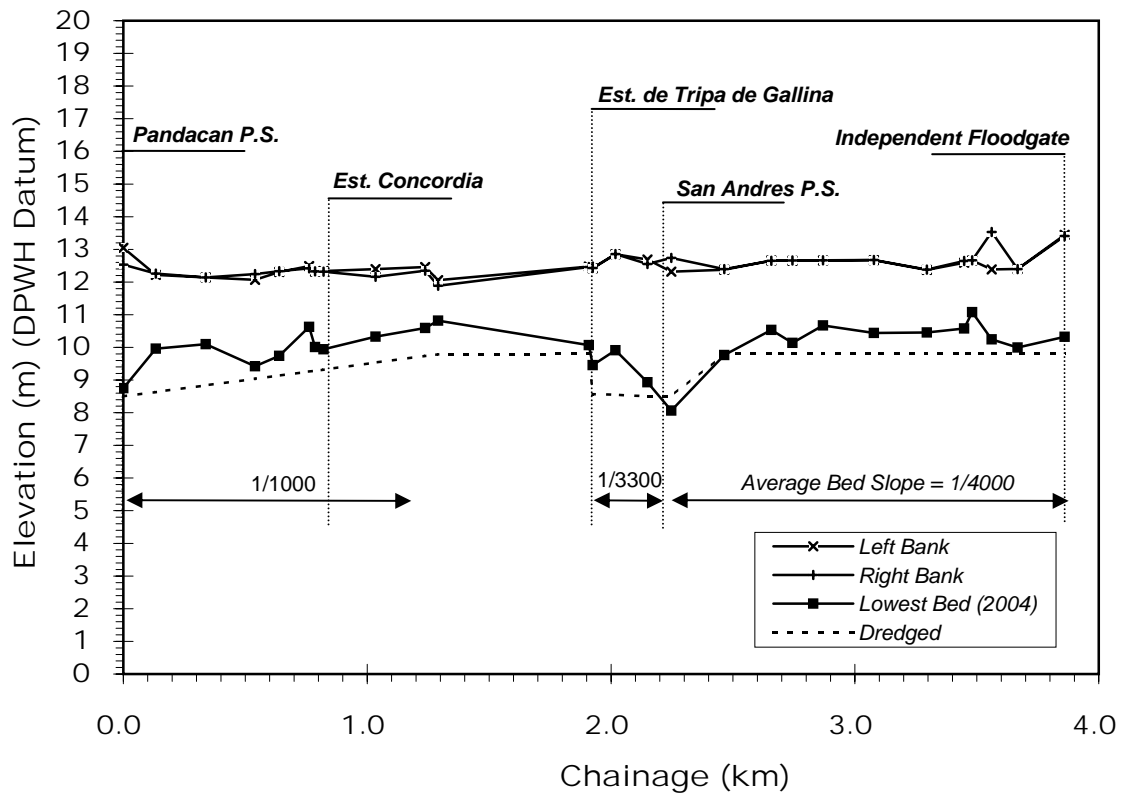
SE06 Estero de Paco



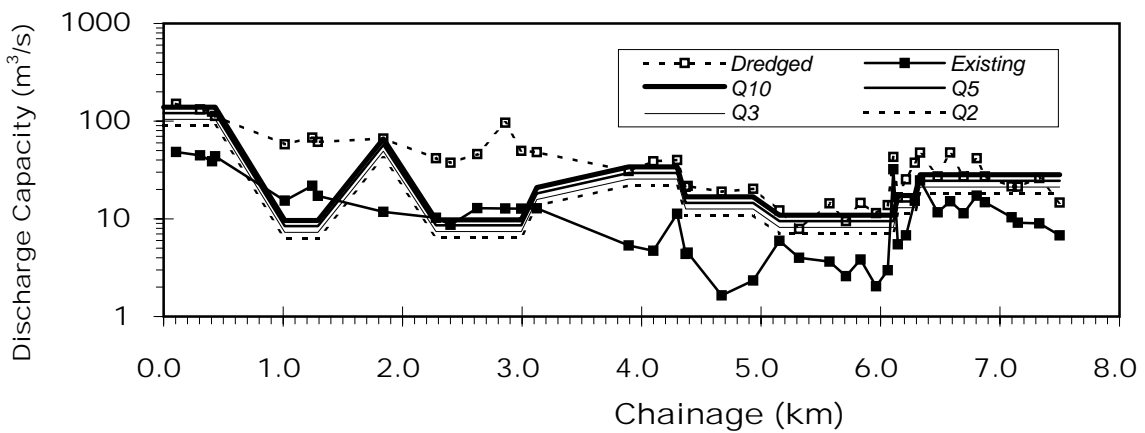
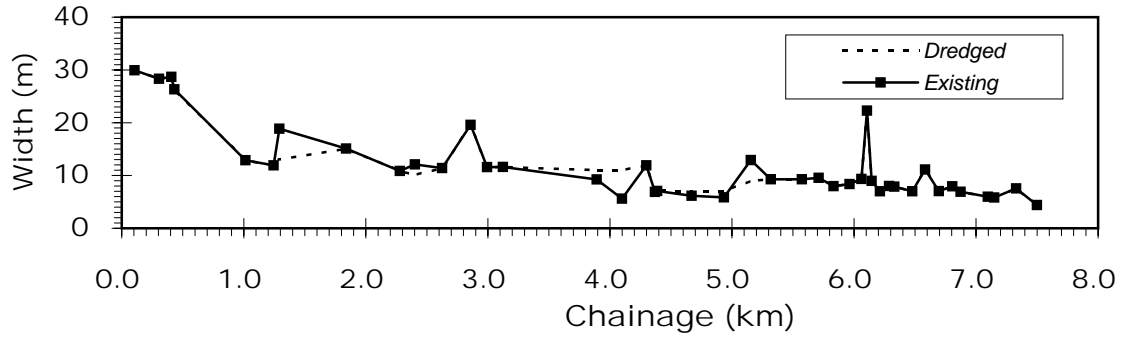
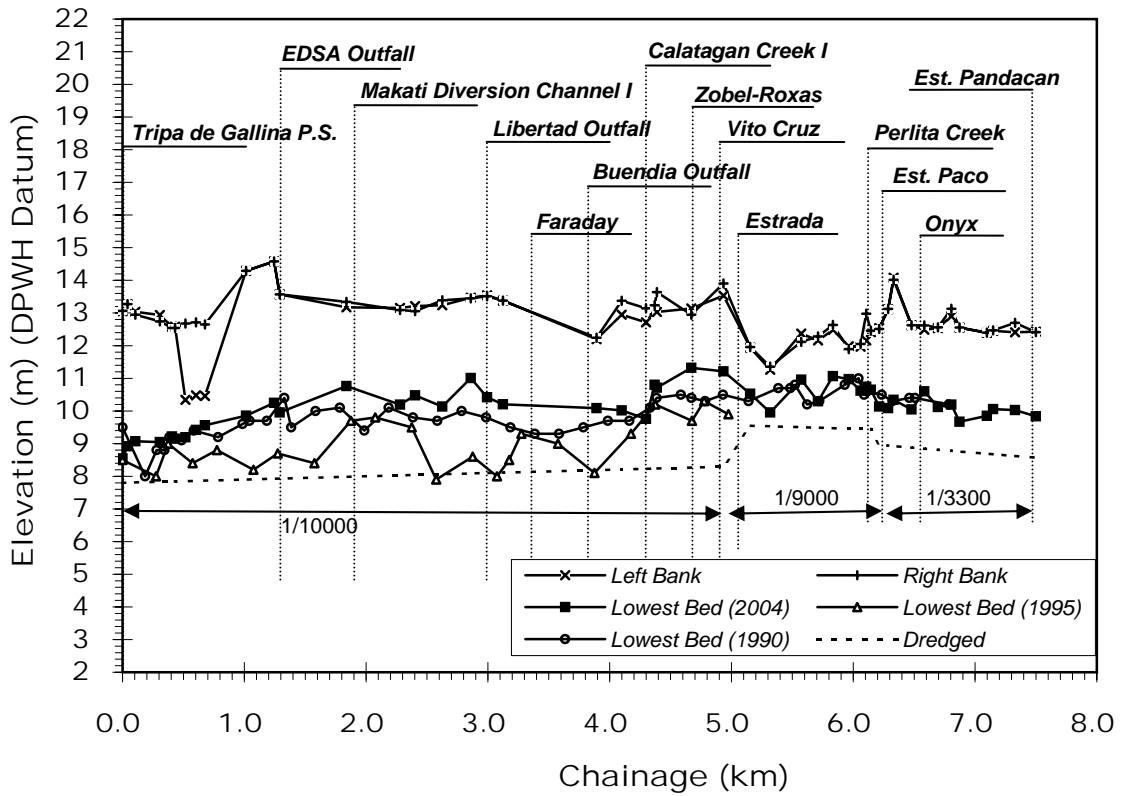
SE07 Estero de Concordia



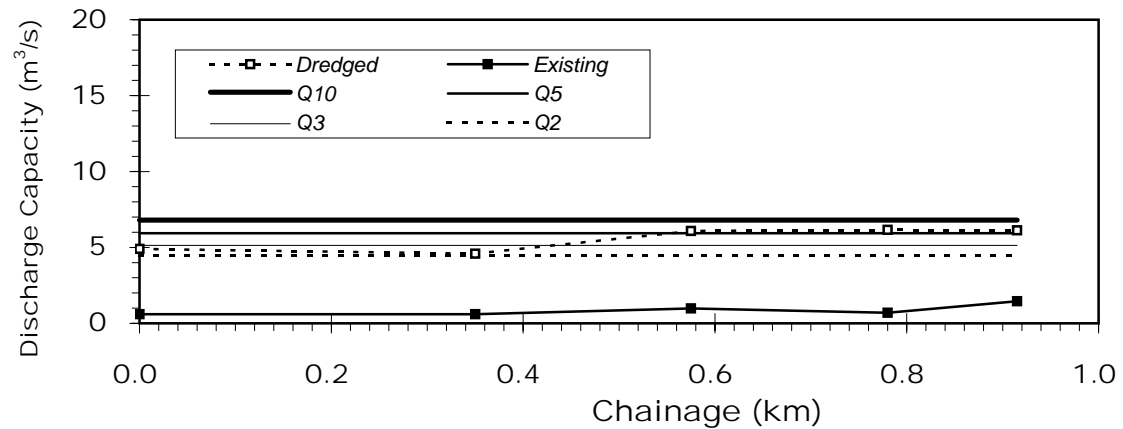
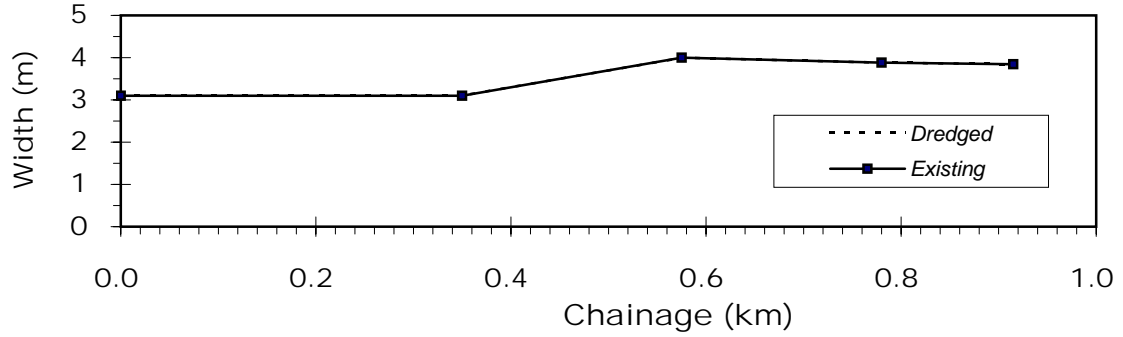
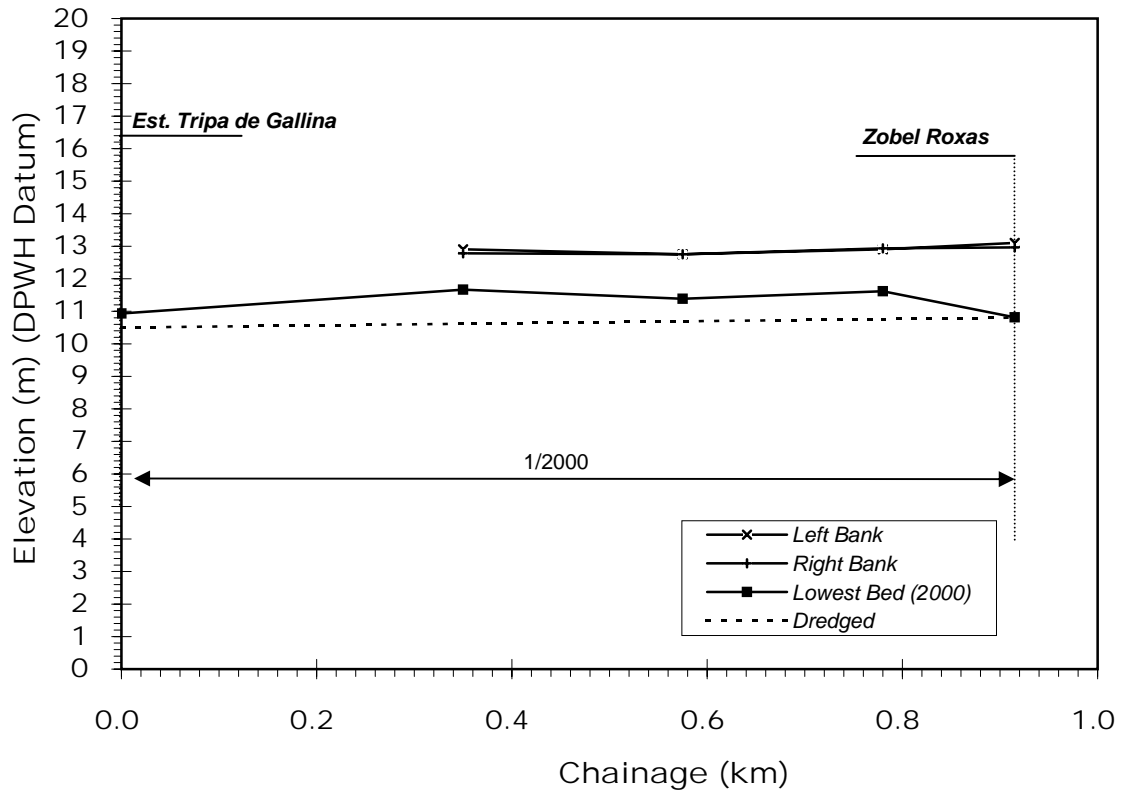
SE08 Estero de Pandacan



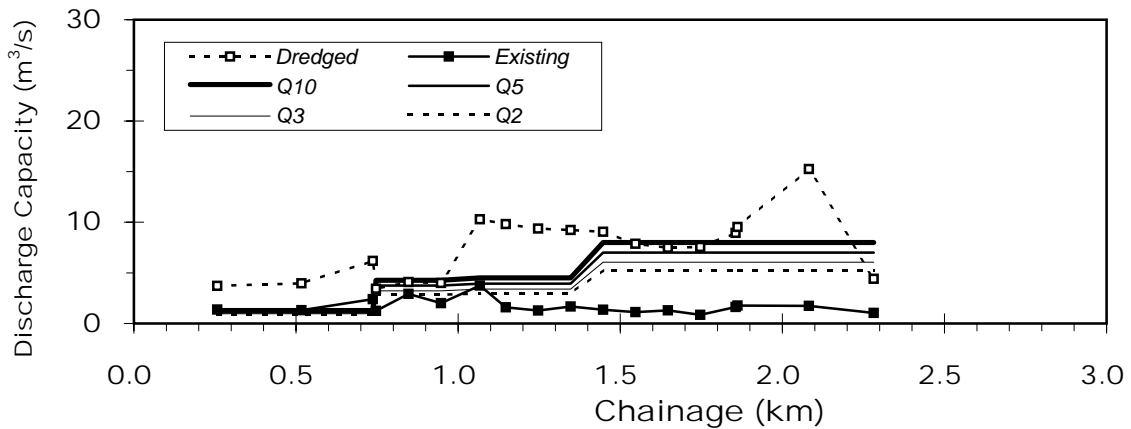
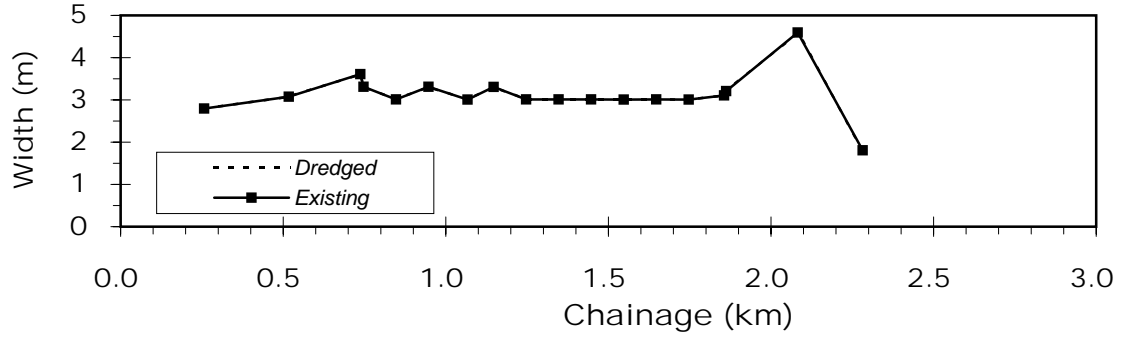
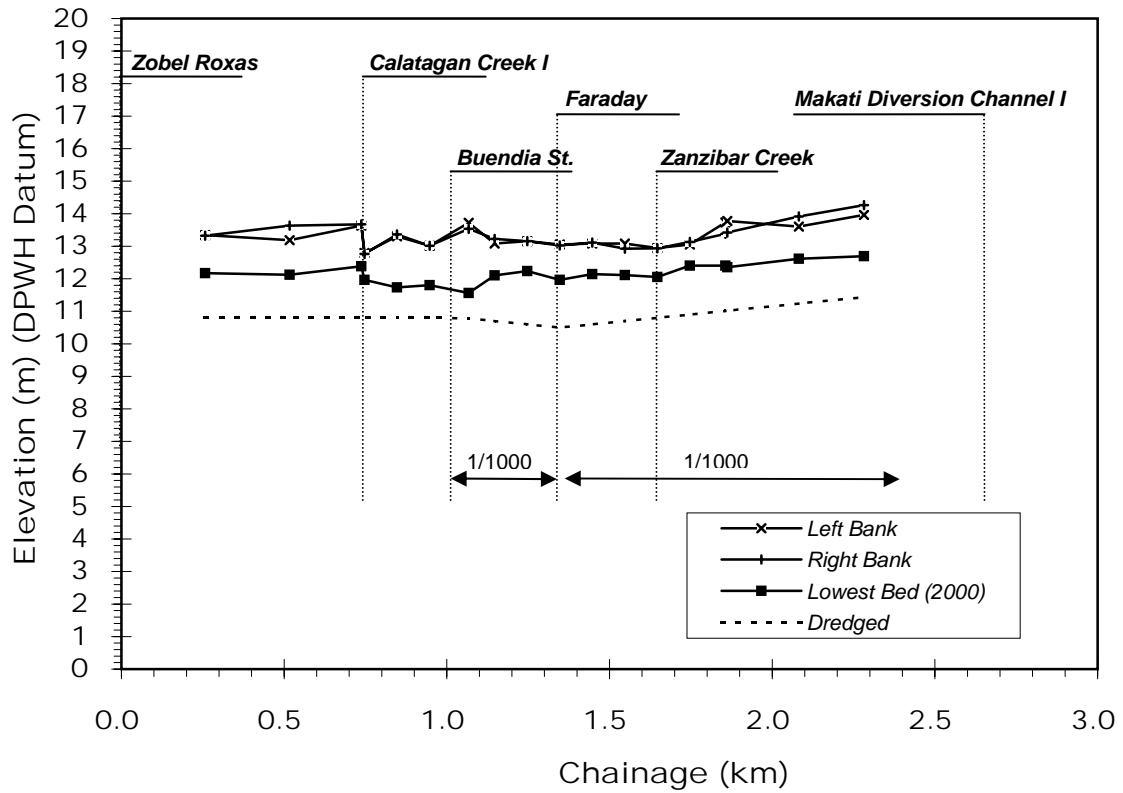
SE09 Estero de Tripa de Gallina



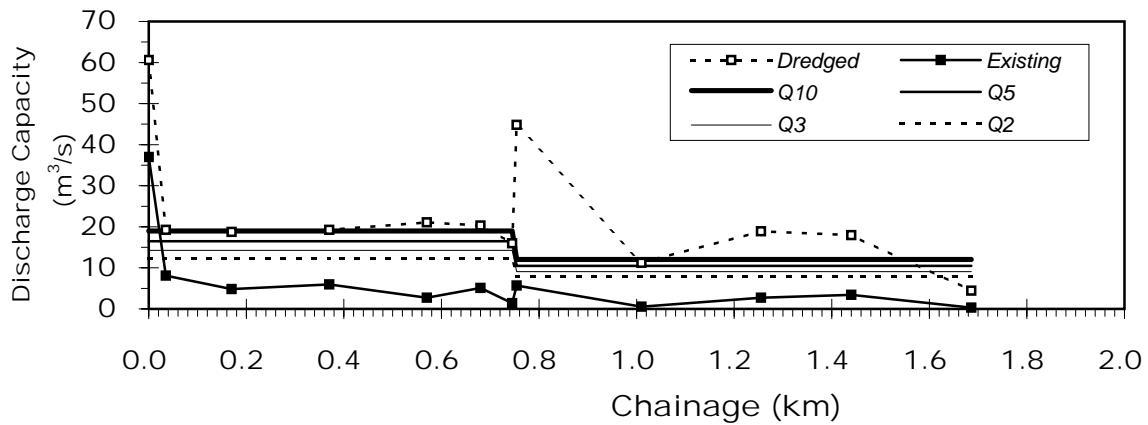
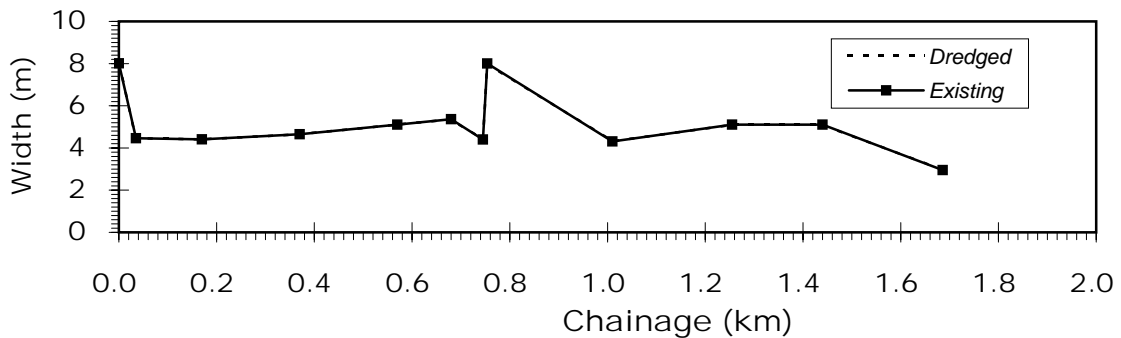
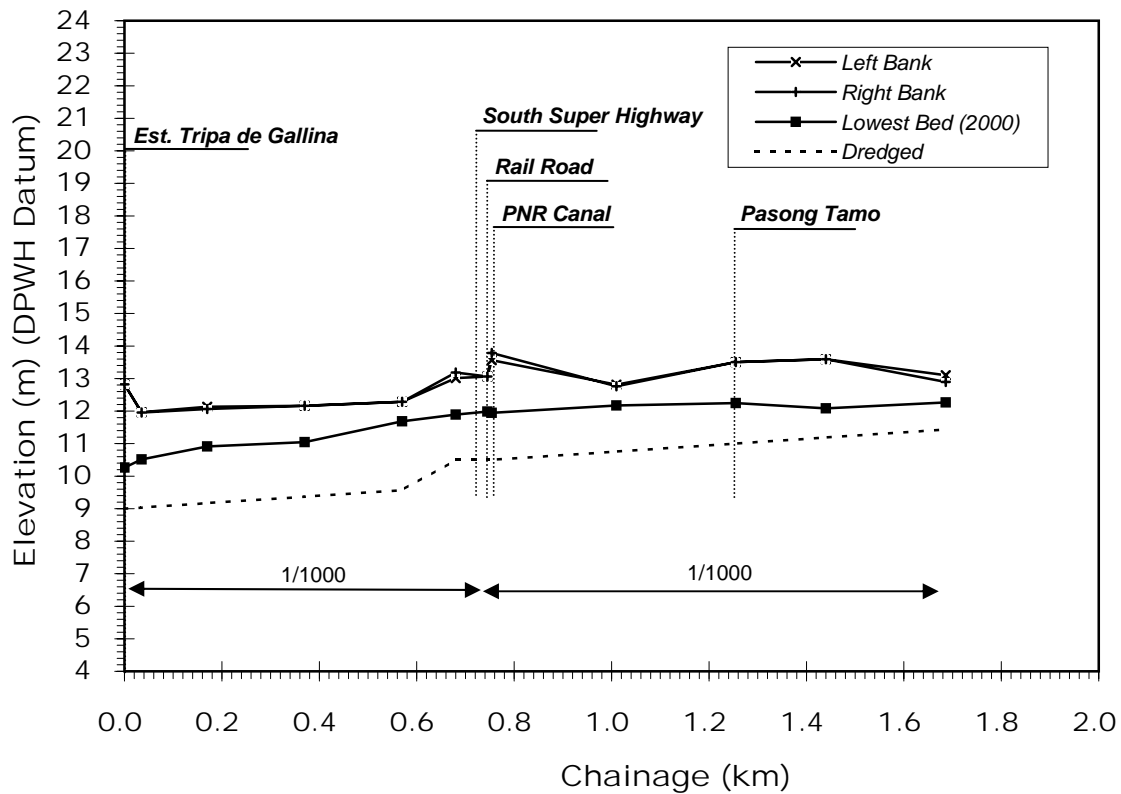
SE10 Perlita Creek



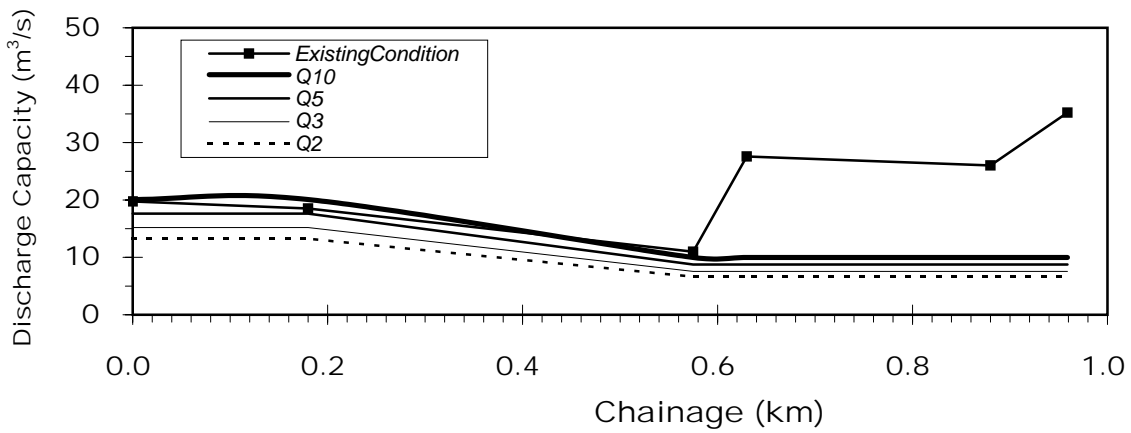
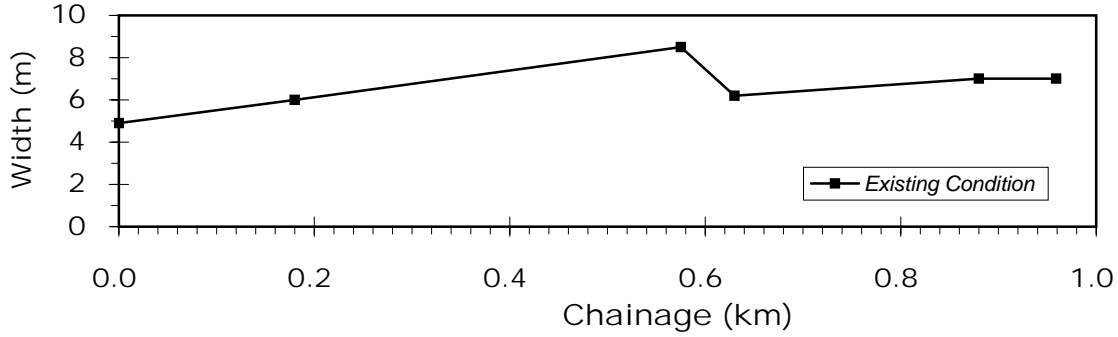
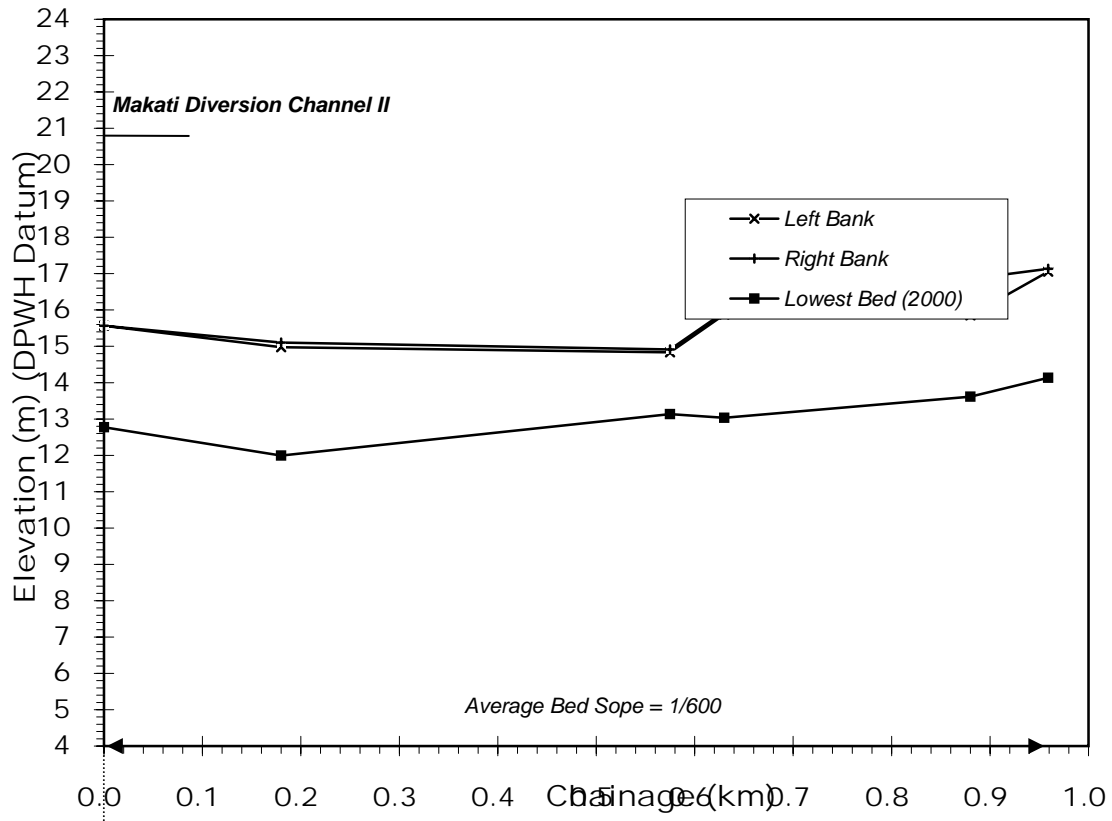
SE11 PNR Canal



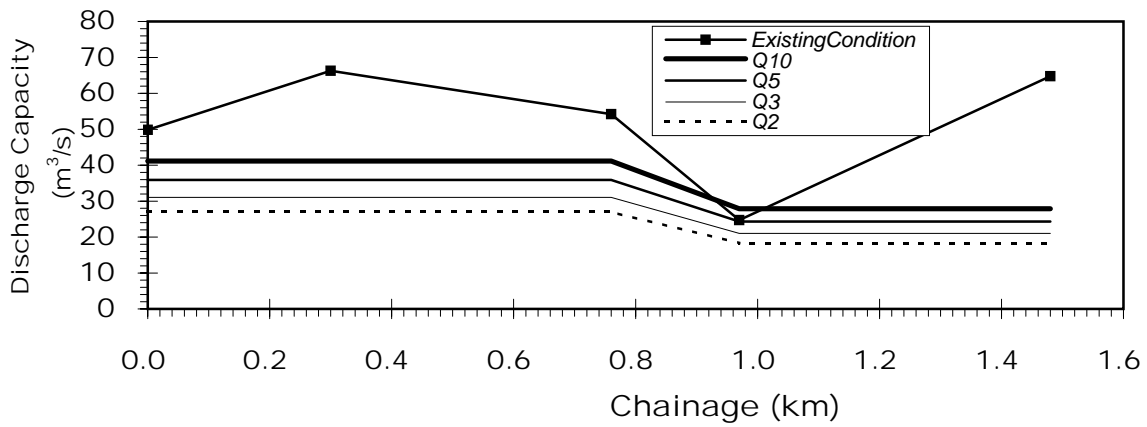
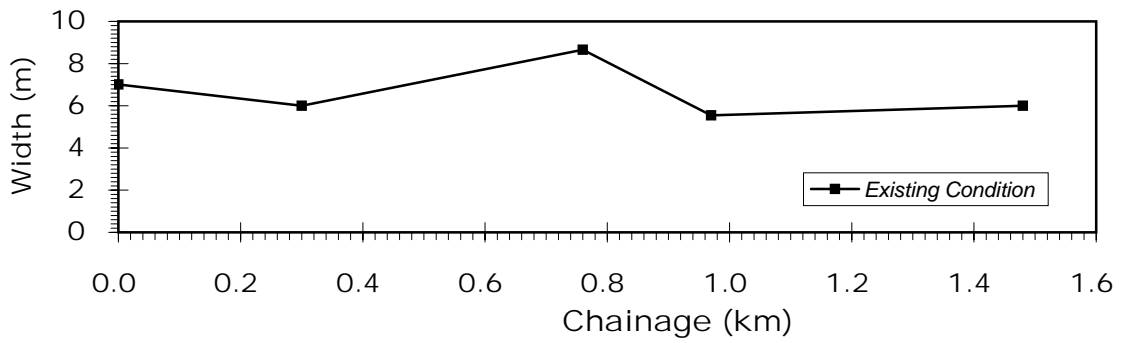
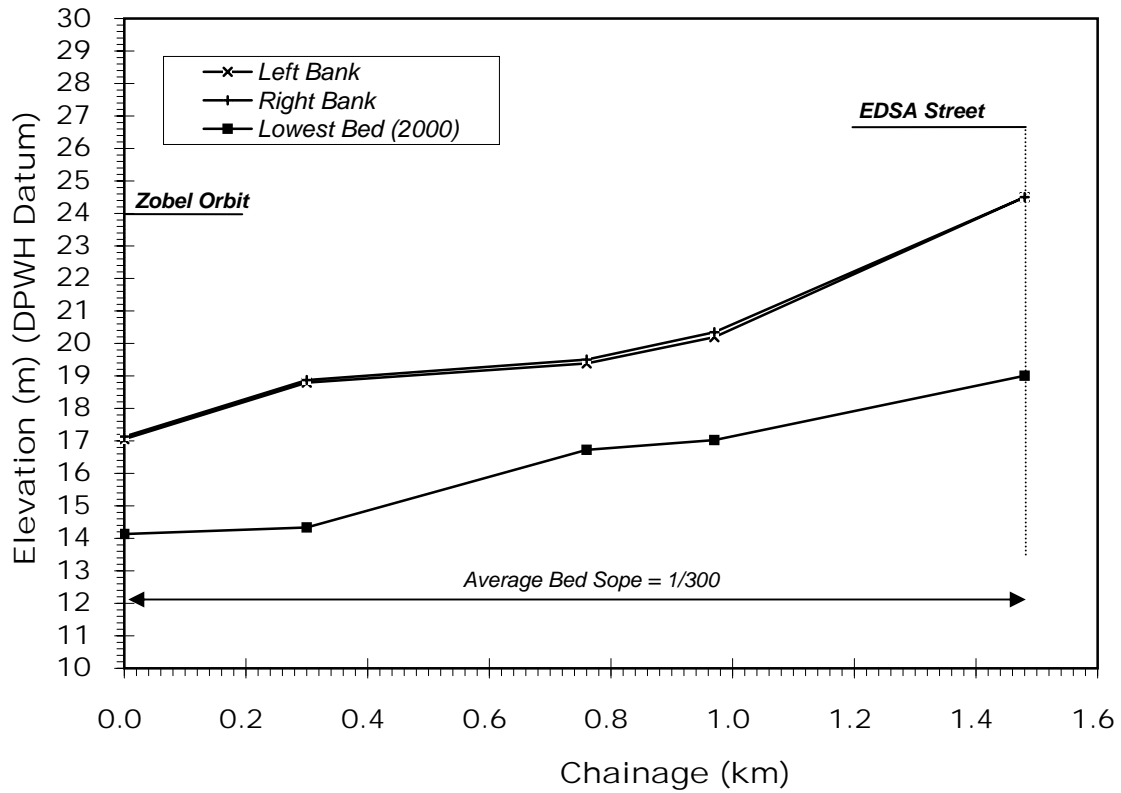
SE12 Calatagan Creek I



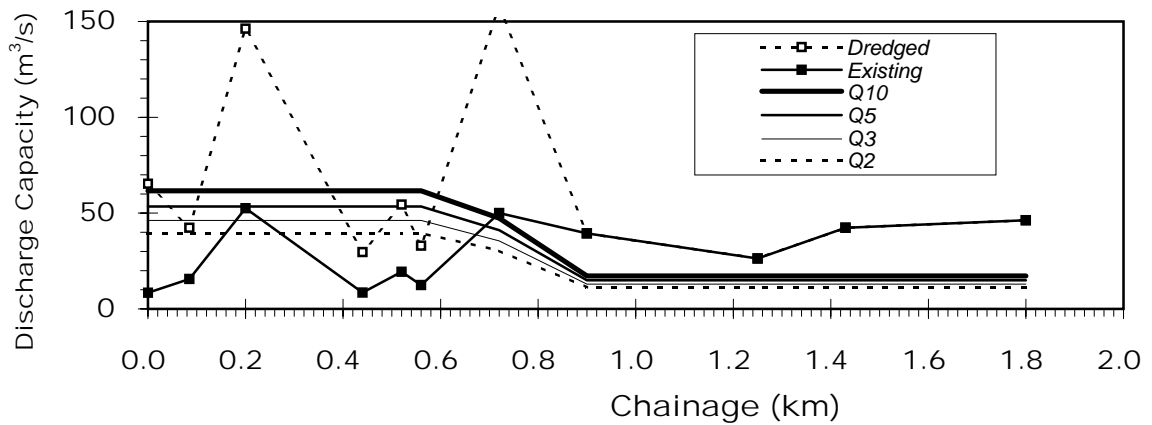
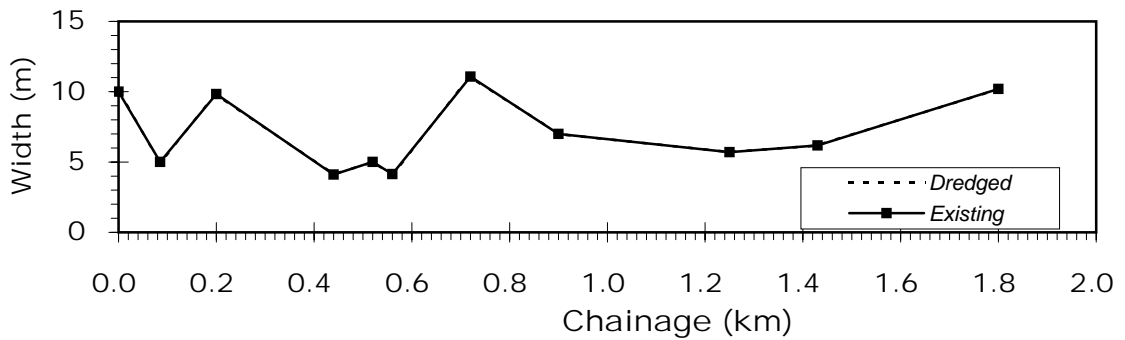
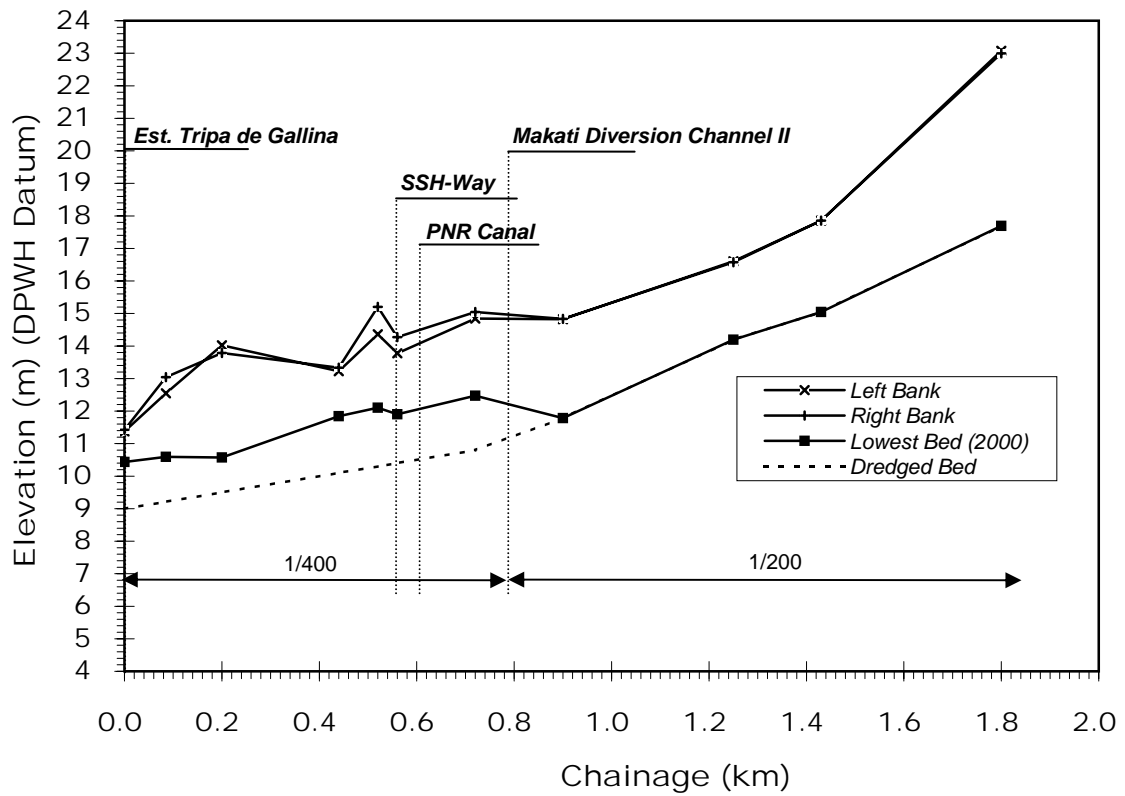
SE13 Calatagan Creek II



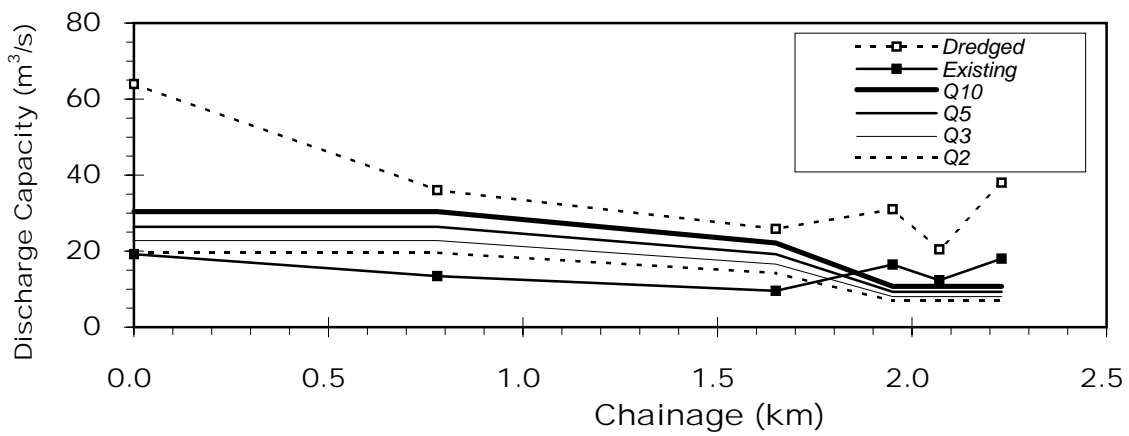
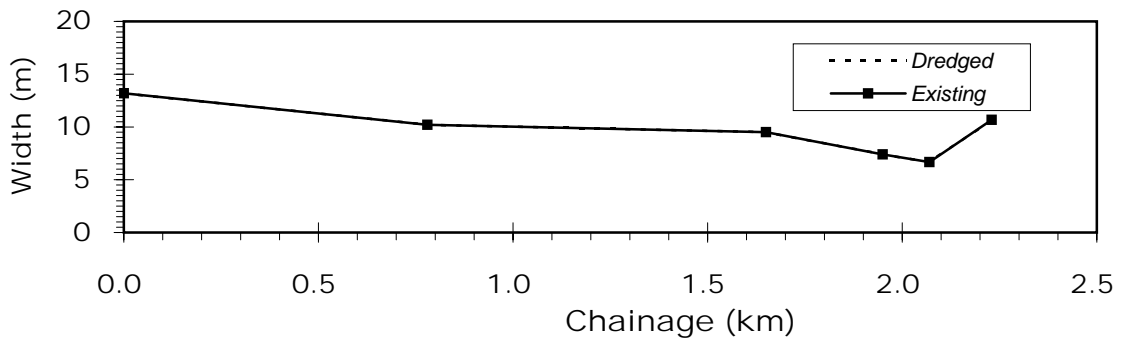
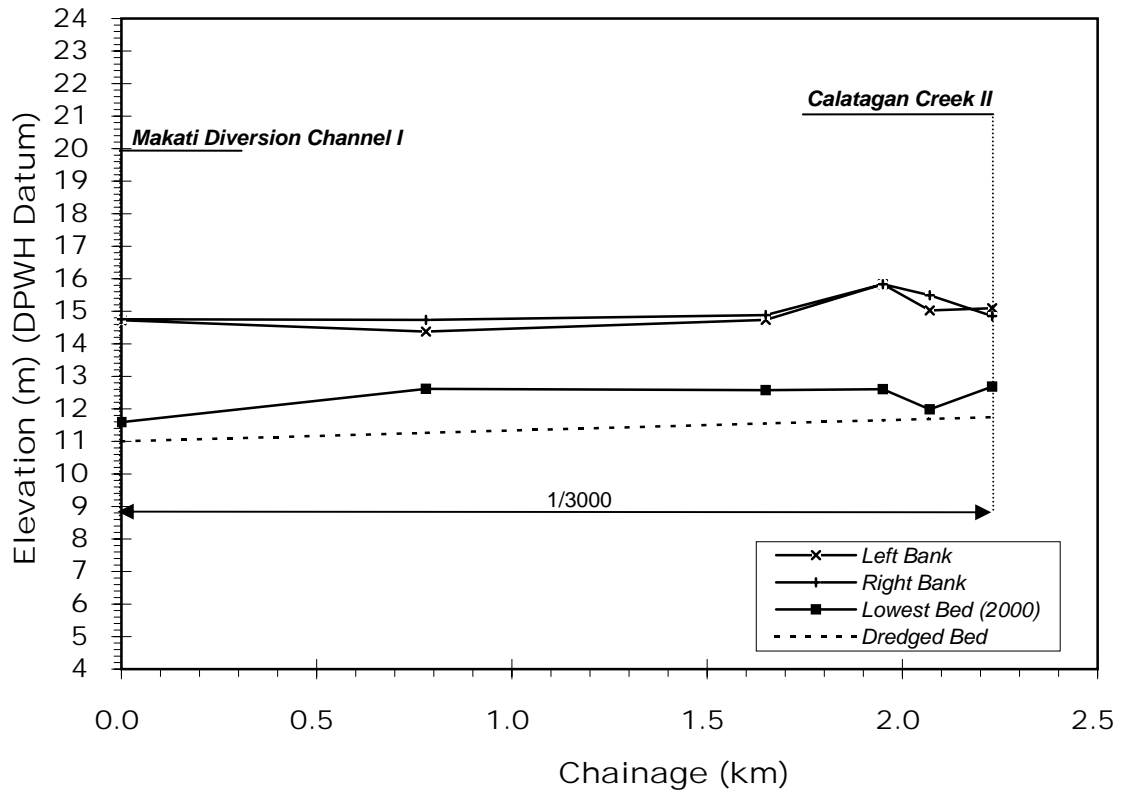
SE14 Calatagan Creek III



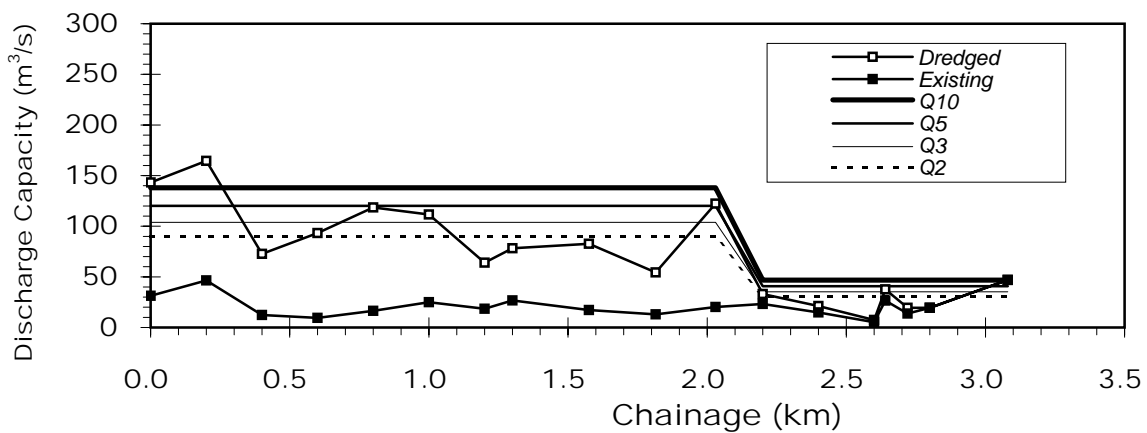
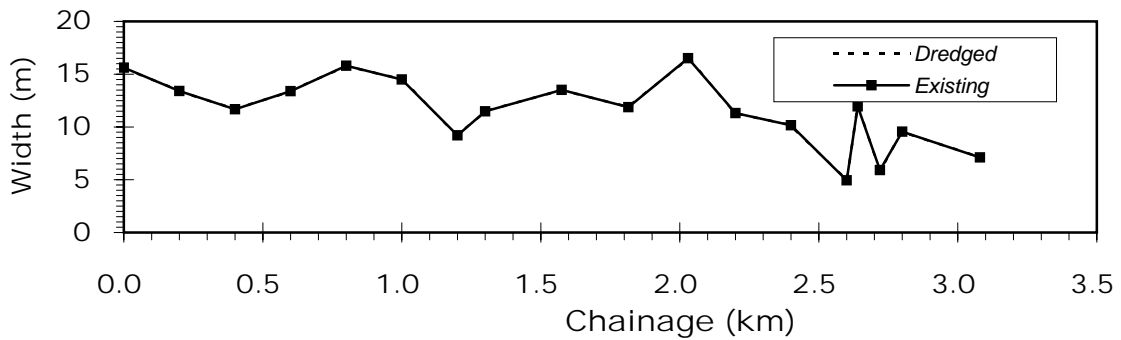
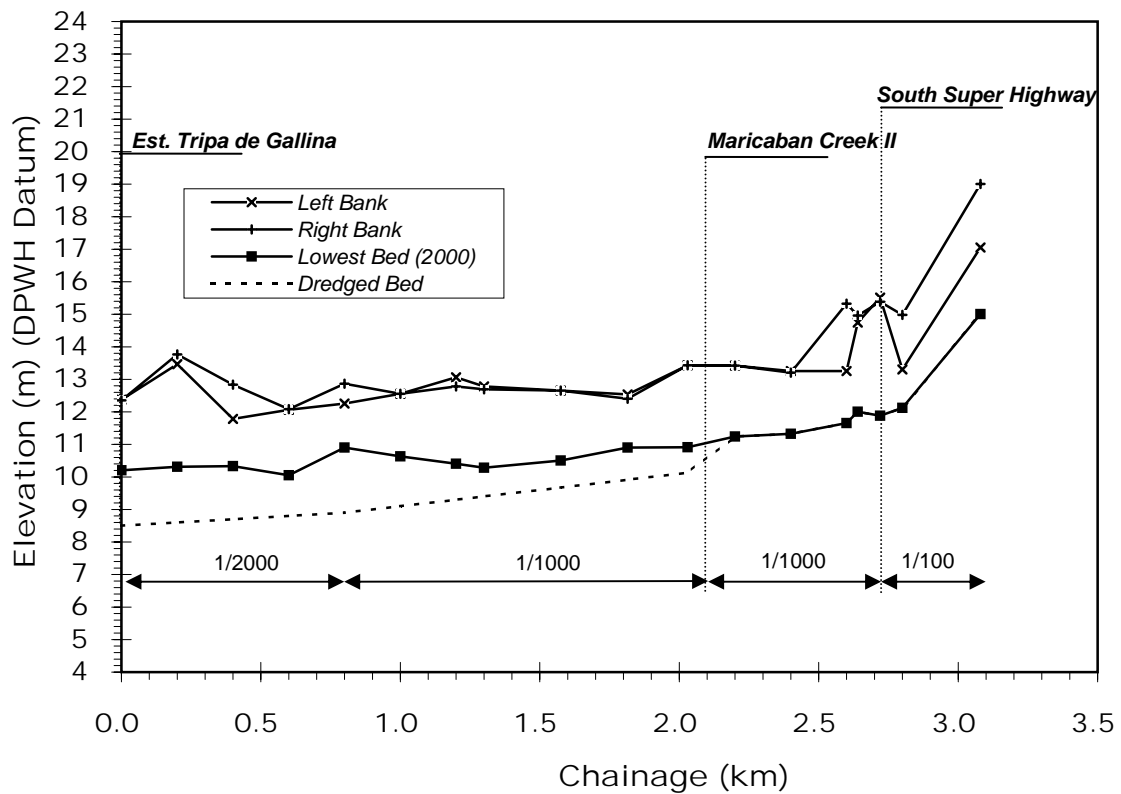
SE16 Makati Diversion Channel I



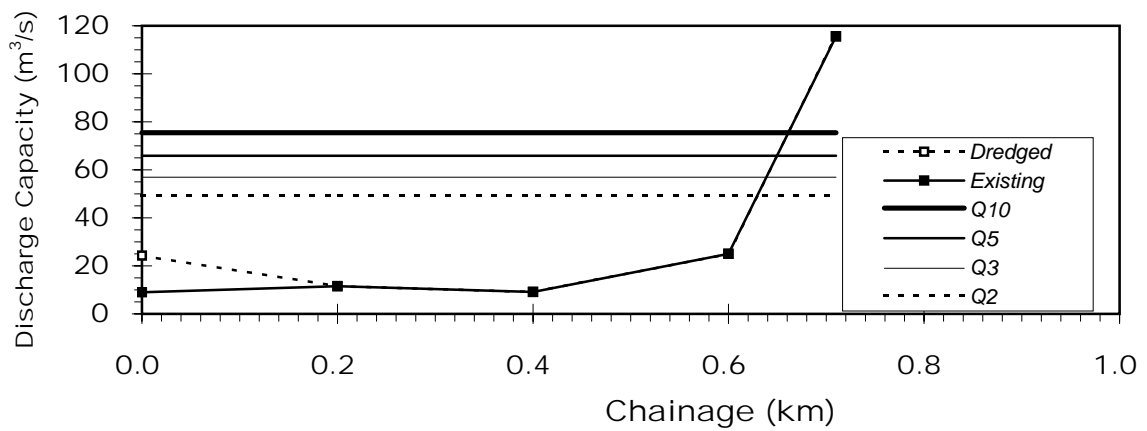
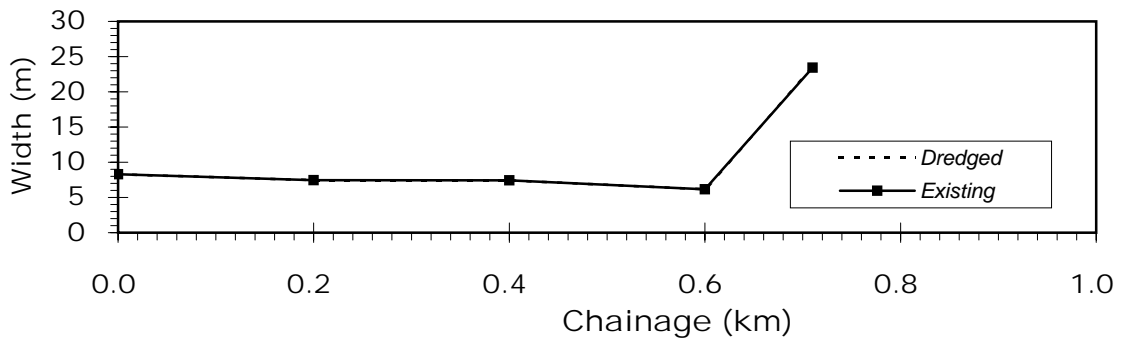
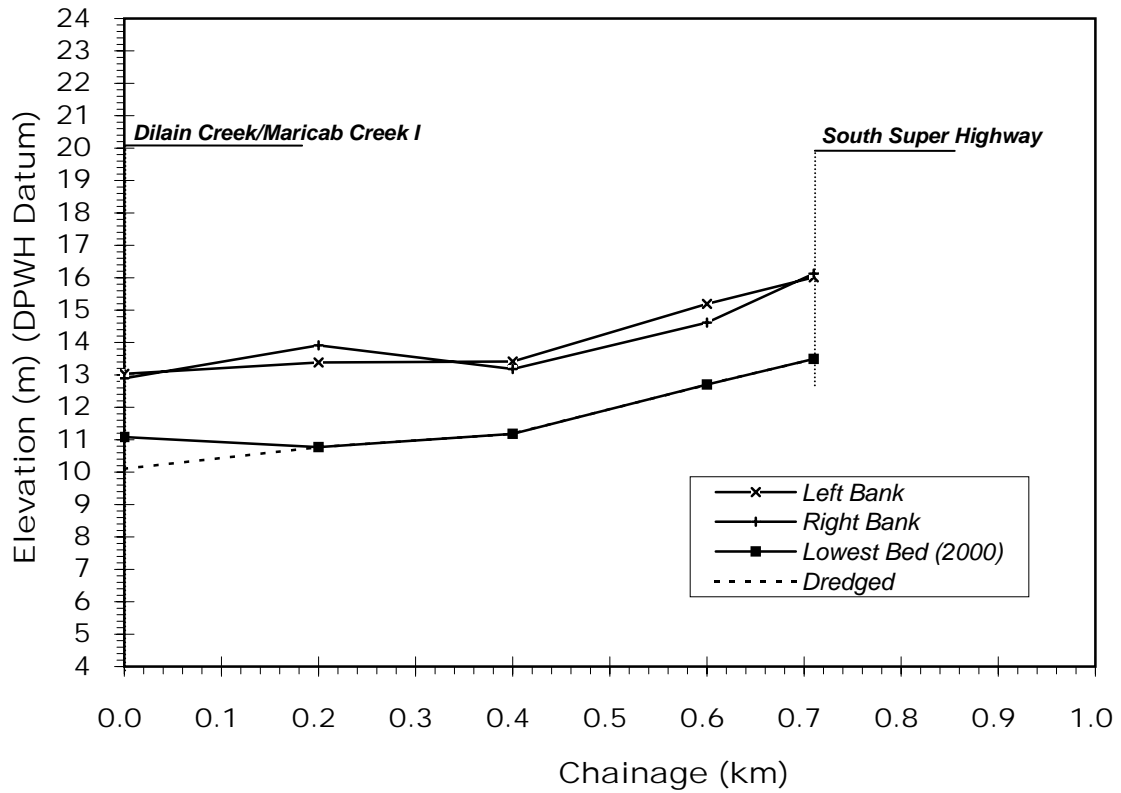
SE17 Makati Diversion Channel II



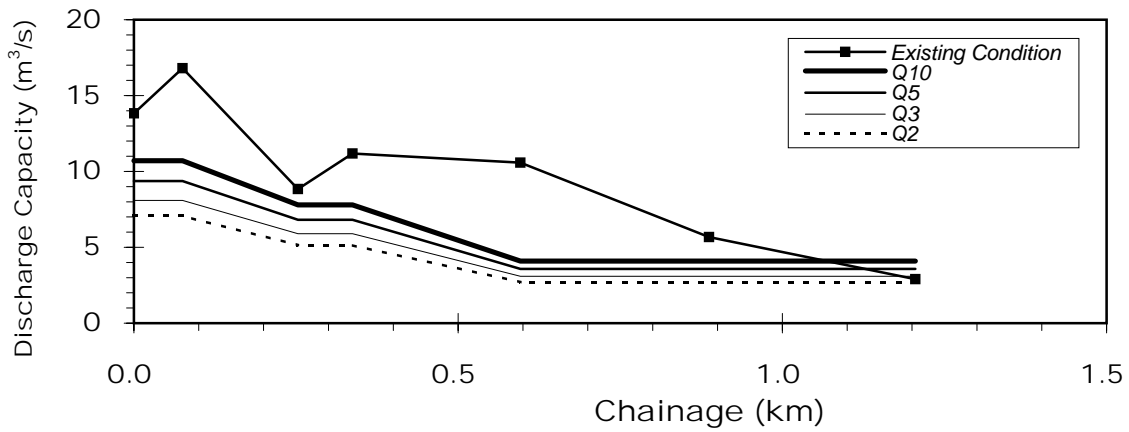
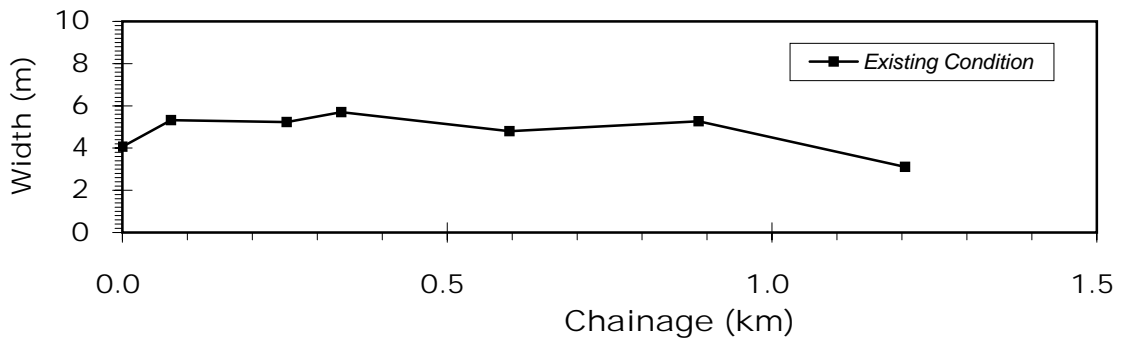
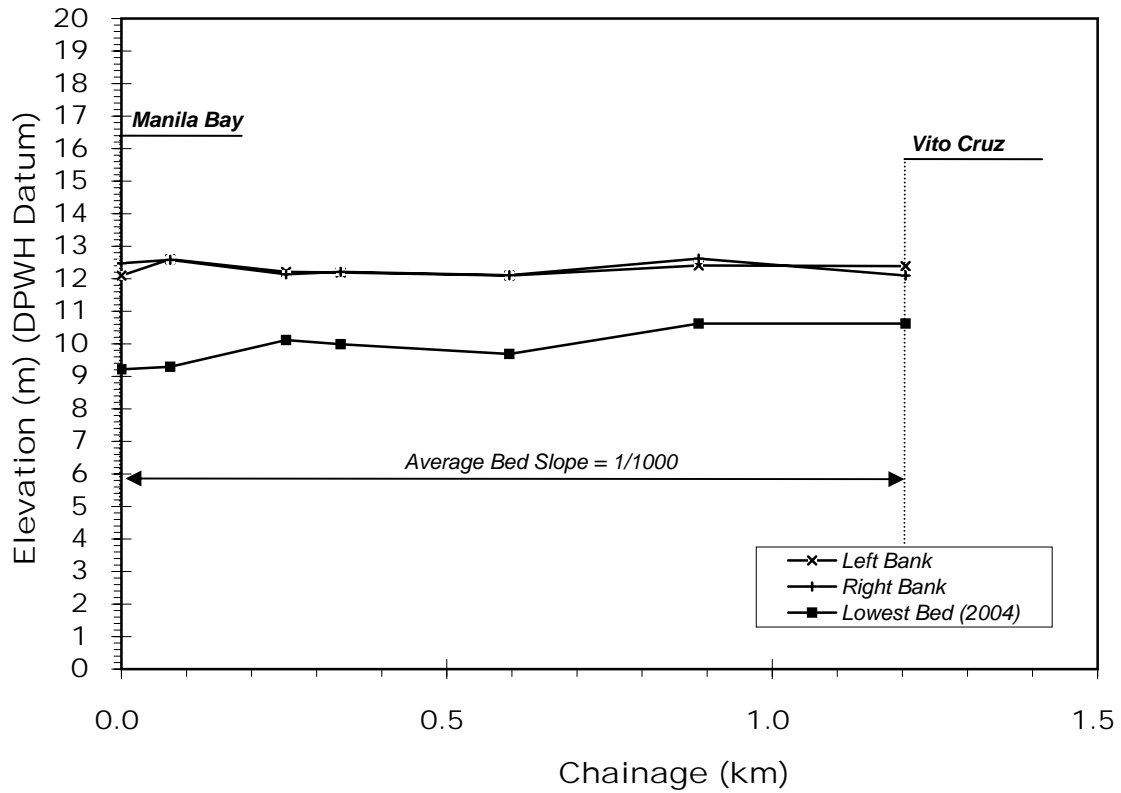
SE18 Dilain Creek / Maricaban Creek I



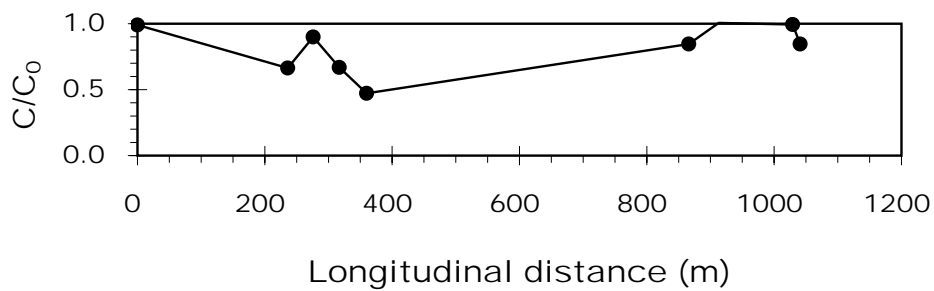
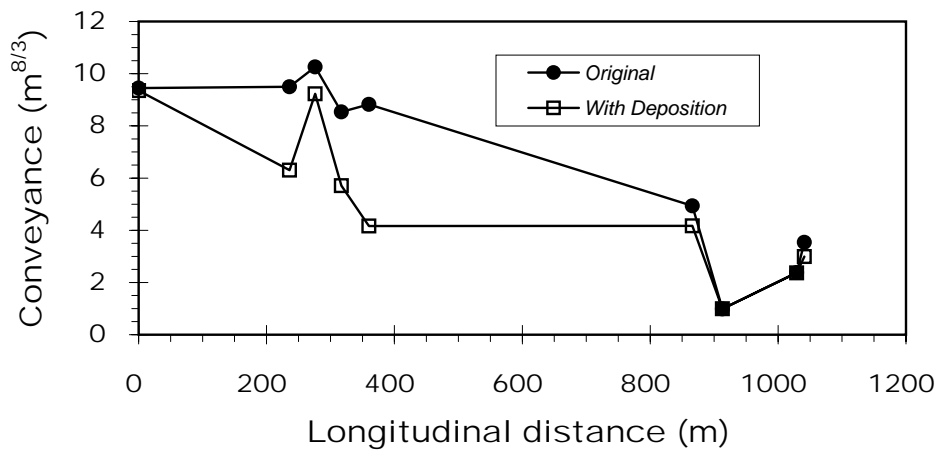
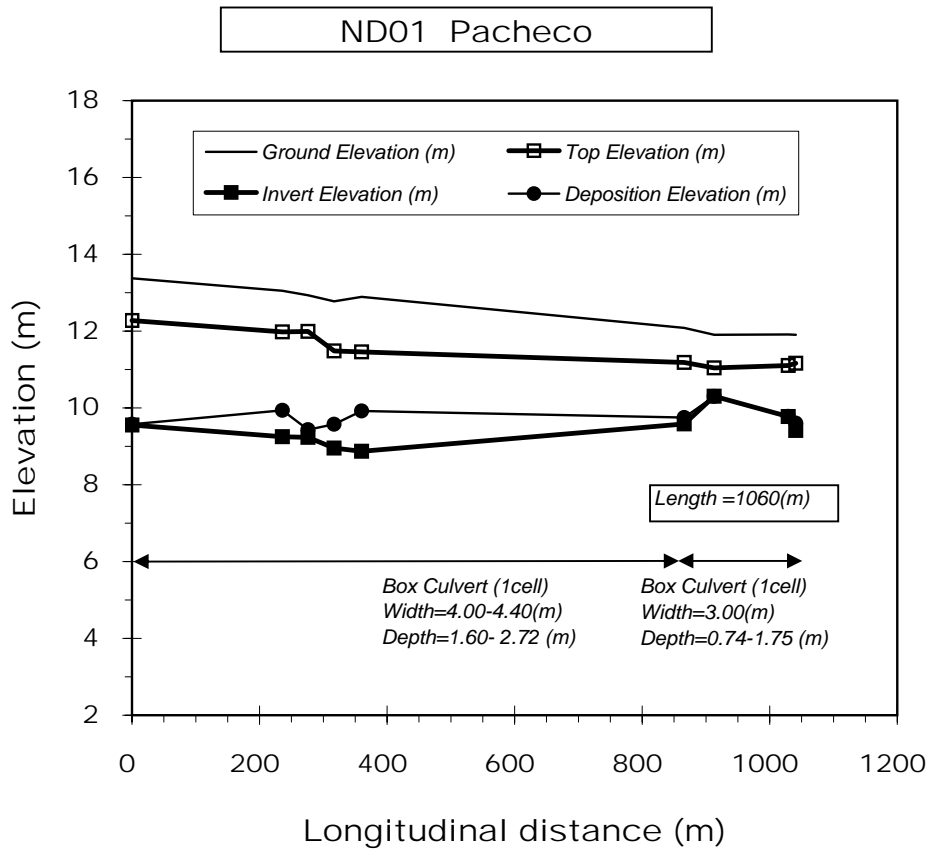
SE19 Maricaban Creek II



SE20 Estero de San Antonio Abad

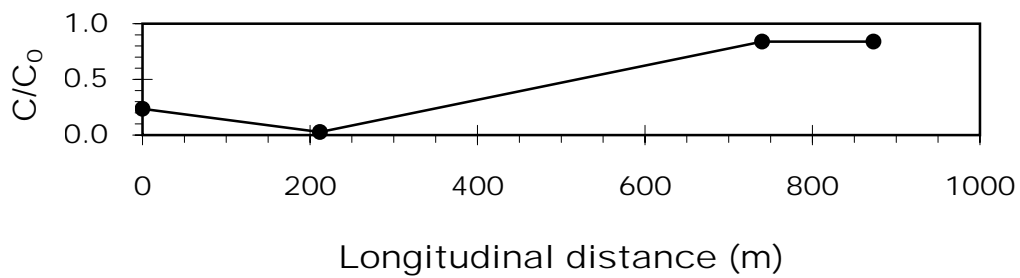
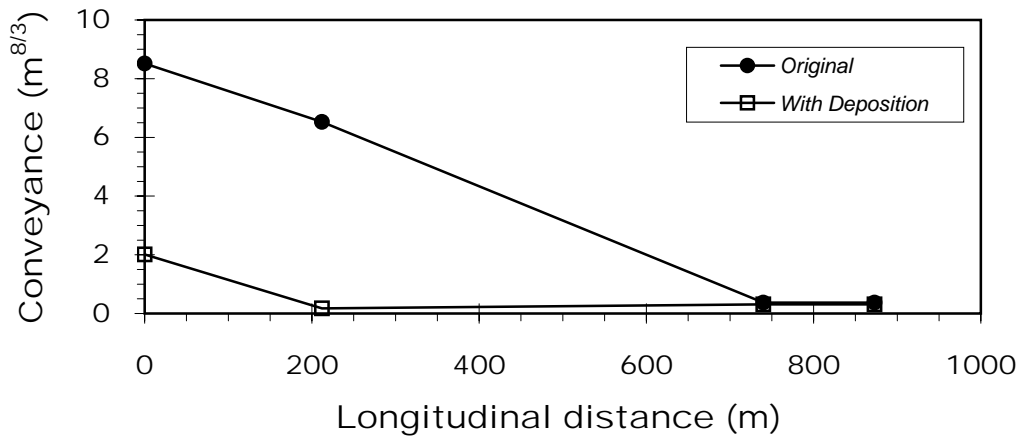
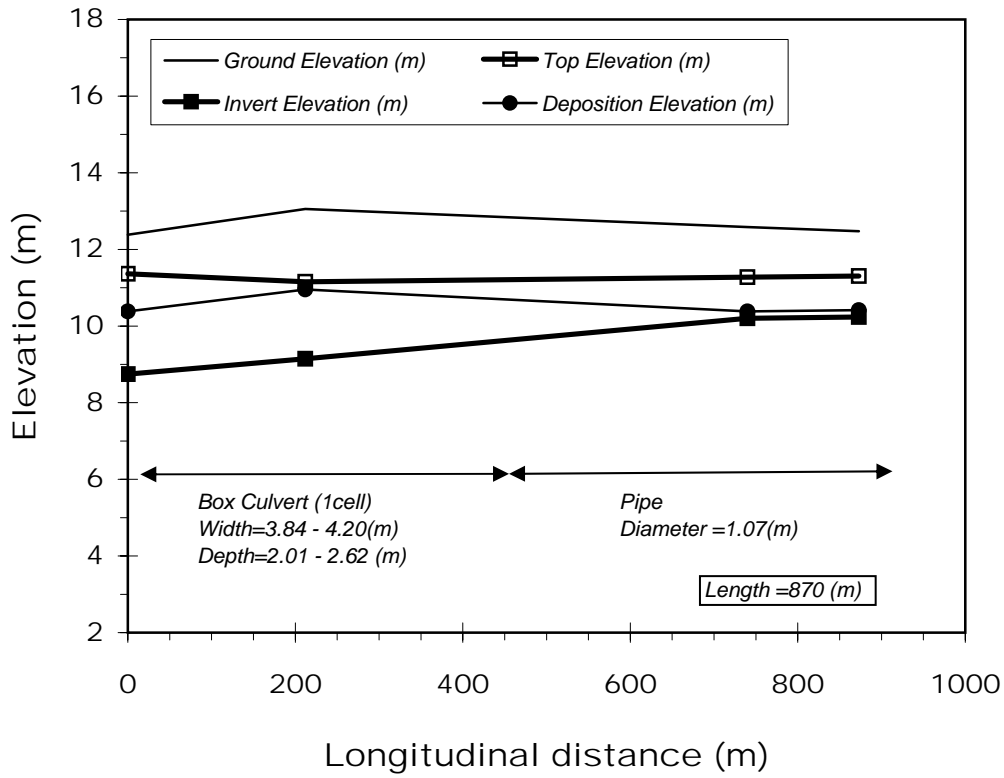


LONGITUDINAL PROFILE OF DRAINAGE MAINS



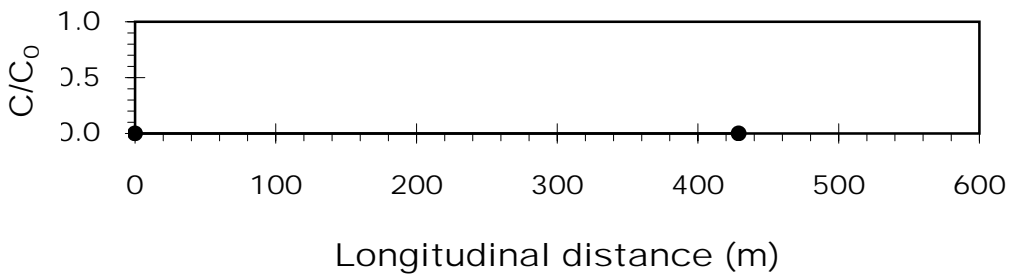
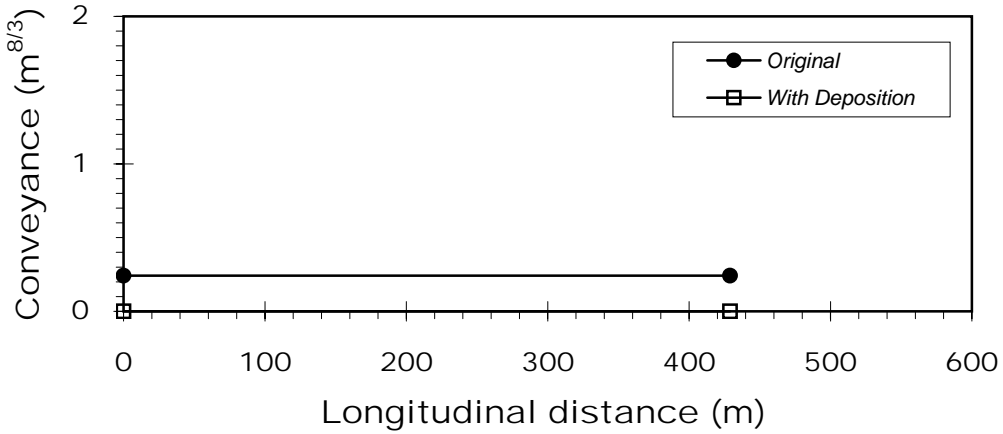
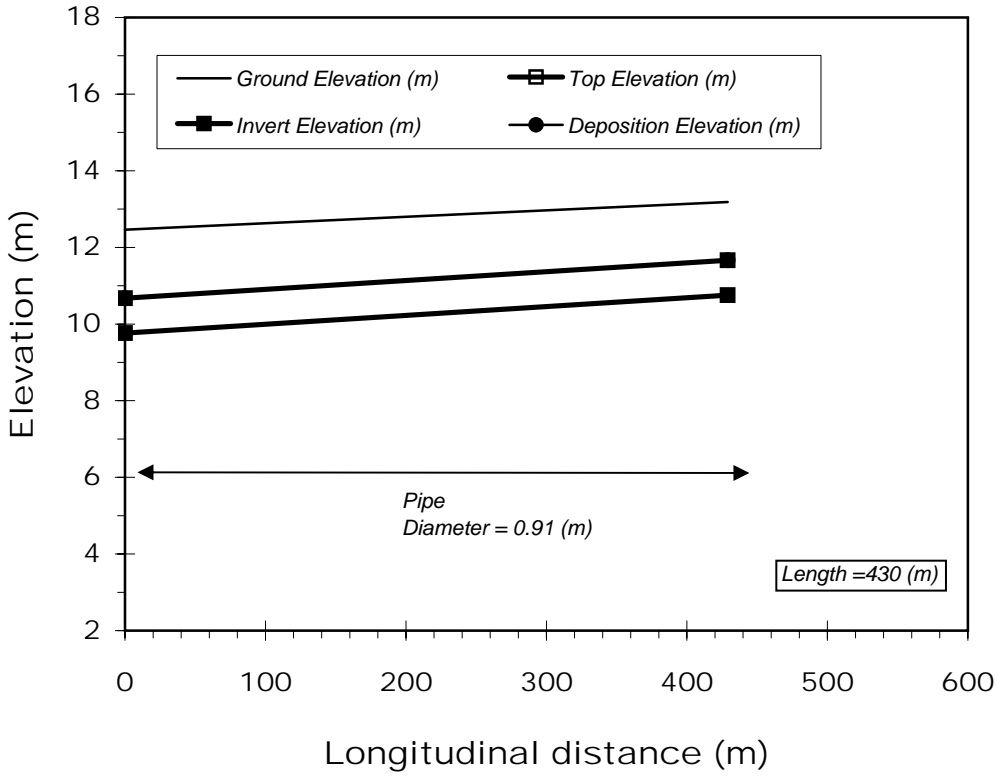
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND02 Lakandula



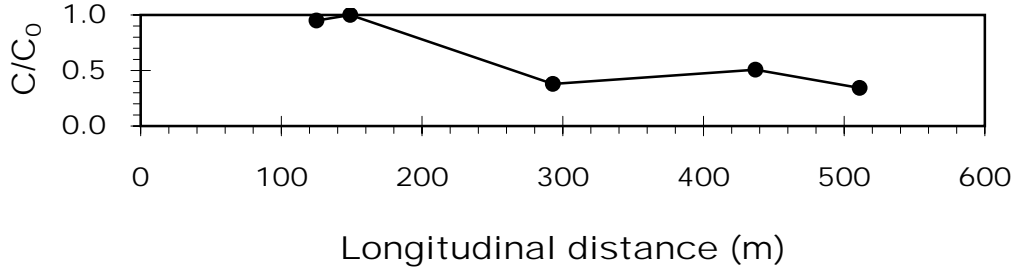
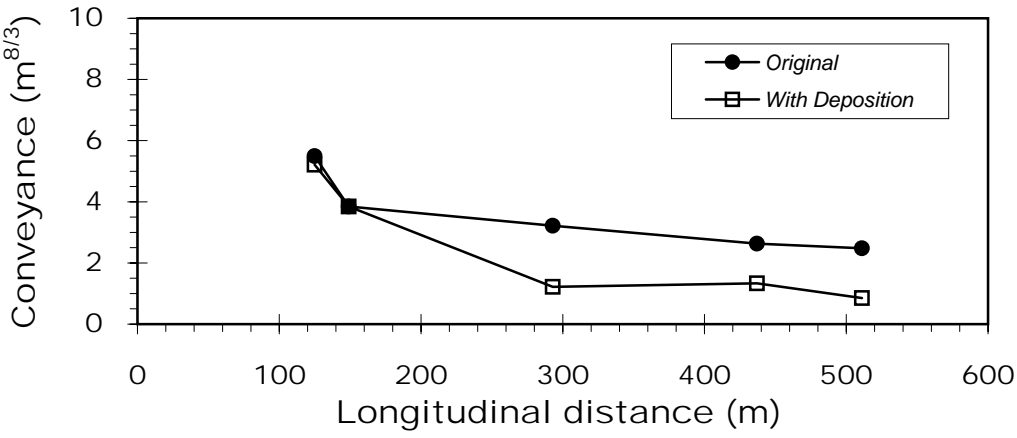
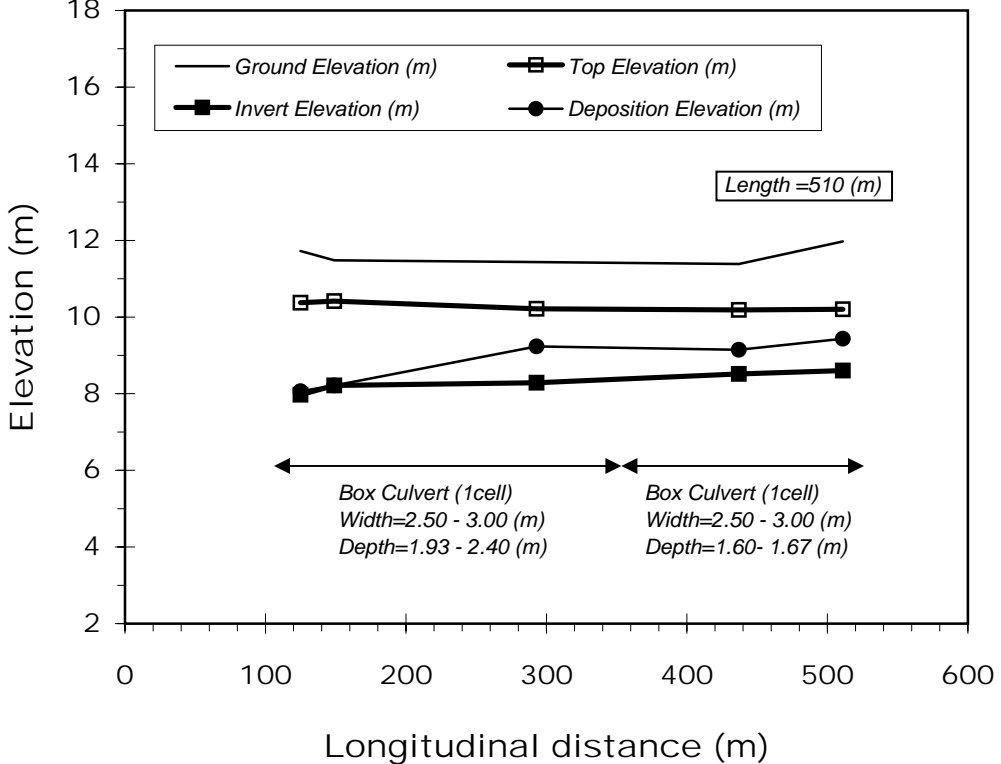
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND03 Zaragosa Sub



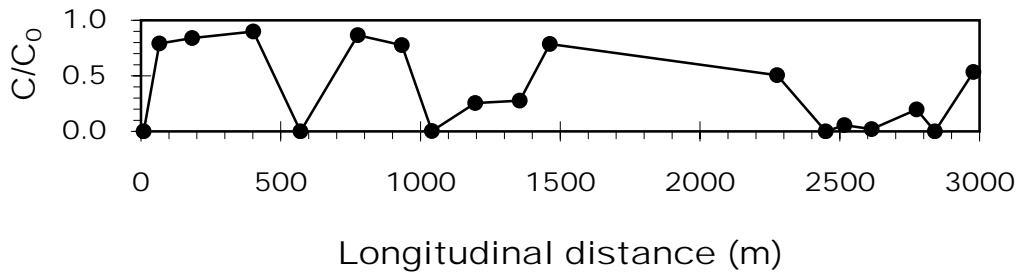
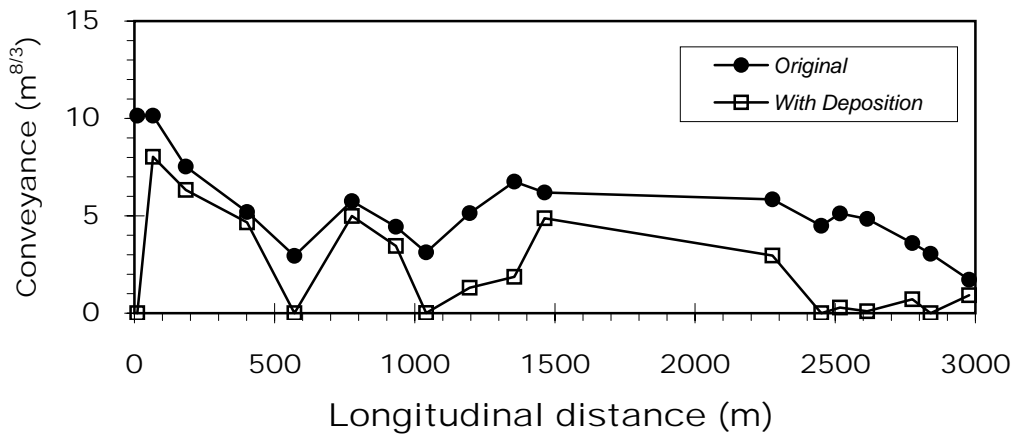
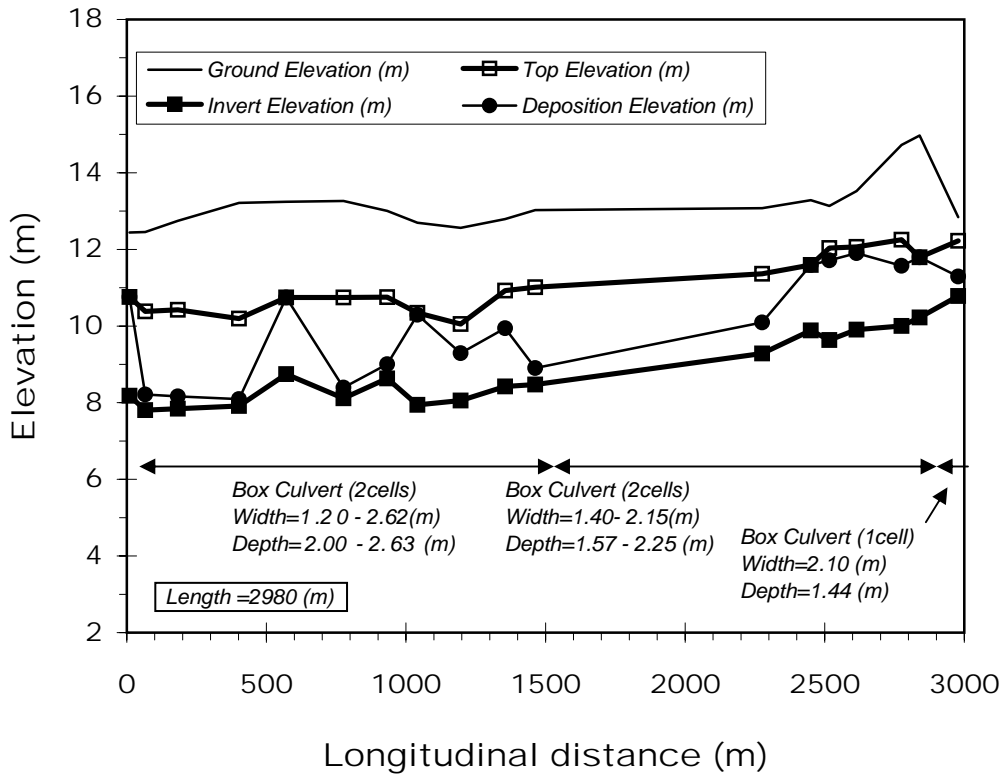
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND04 Buendia



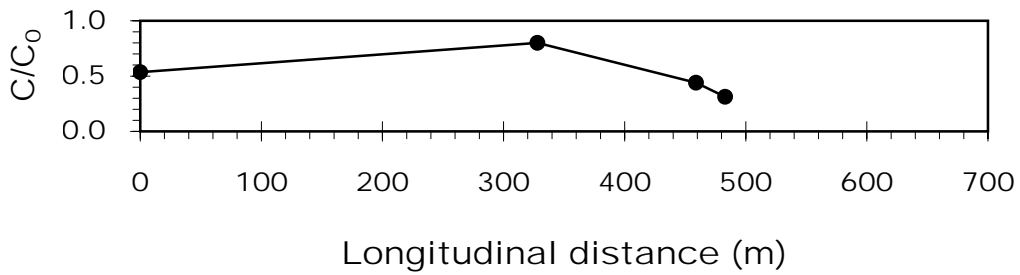
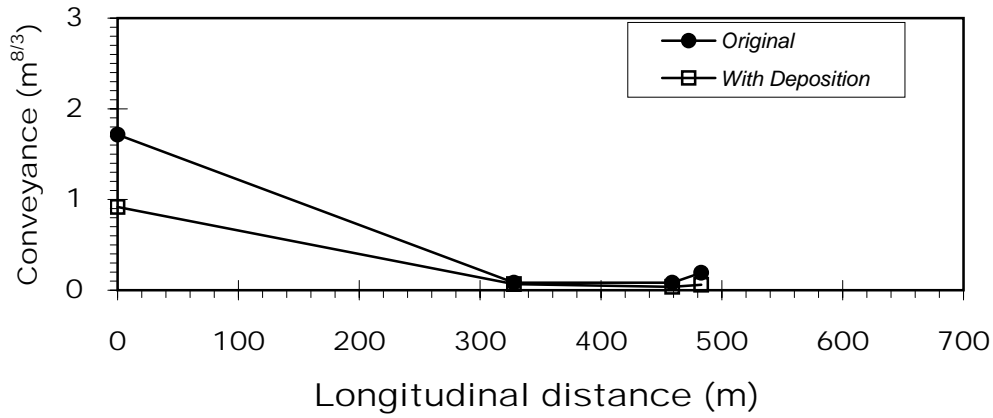
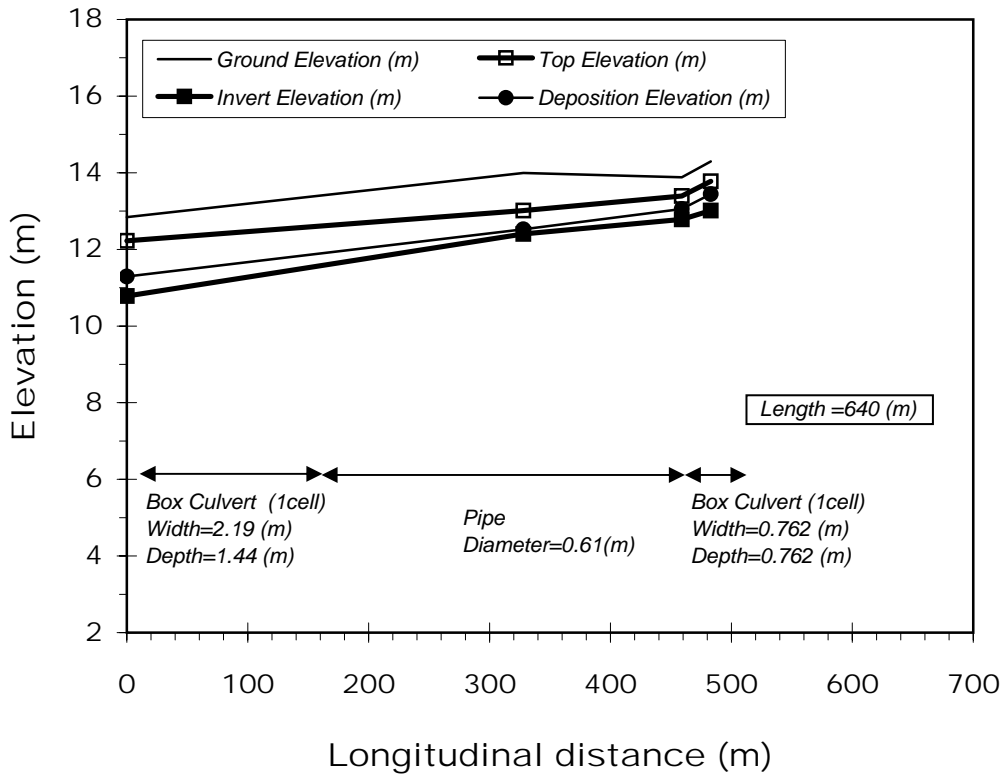
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

ND05 Blumentritt



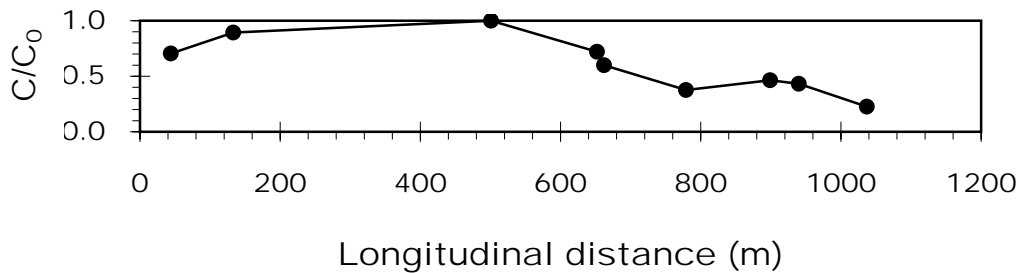
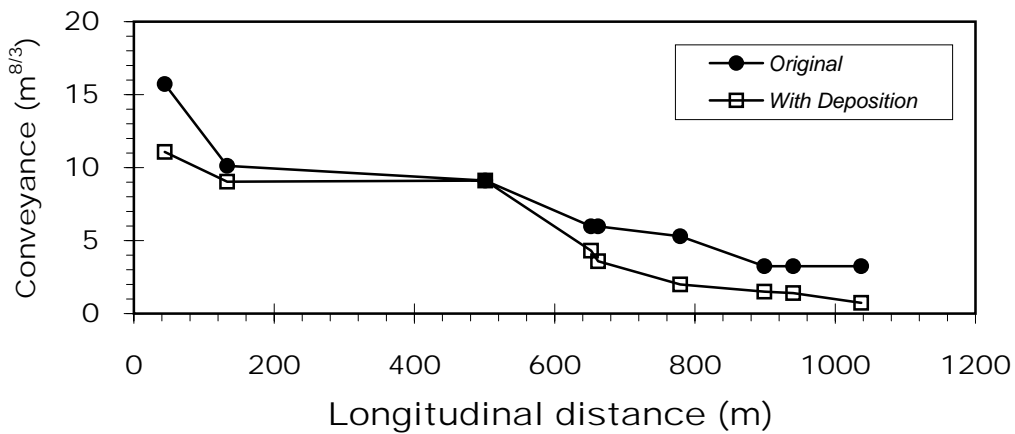
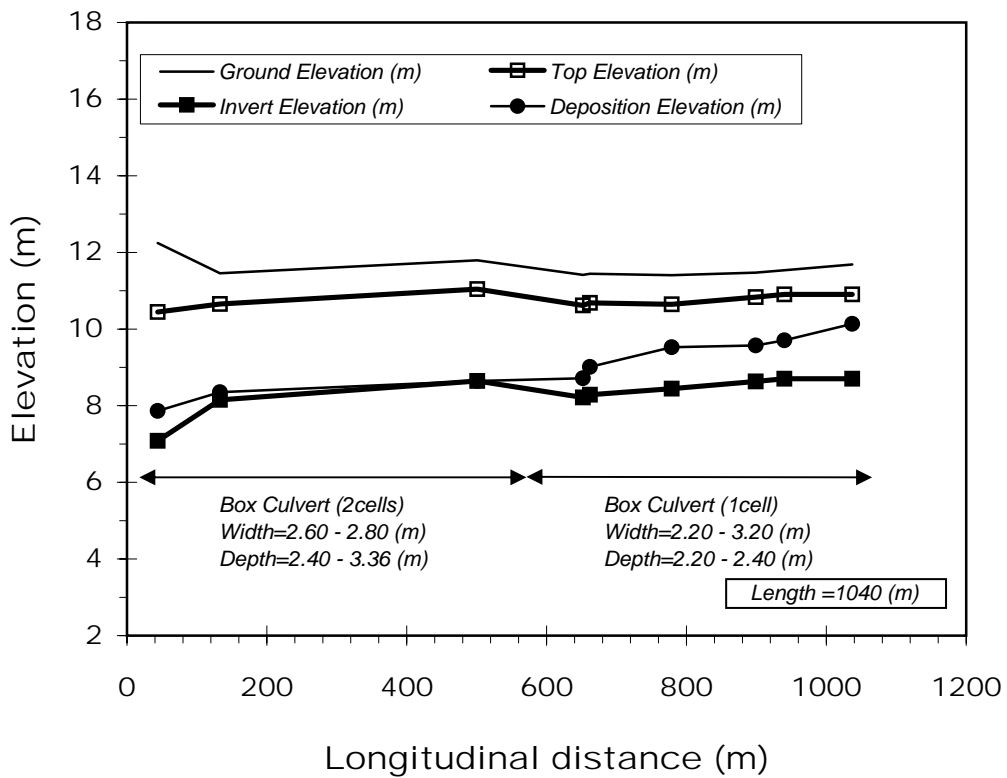
Note: C = Conveyance with deposition ($m^{8/3}$), C₀ = Conveyance without deposition ($m^{8/3}$)

ND06 Kanloan



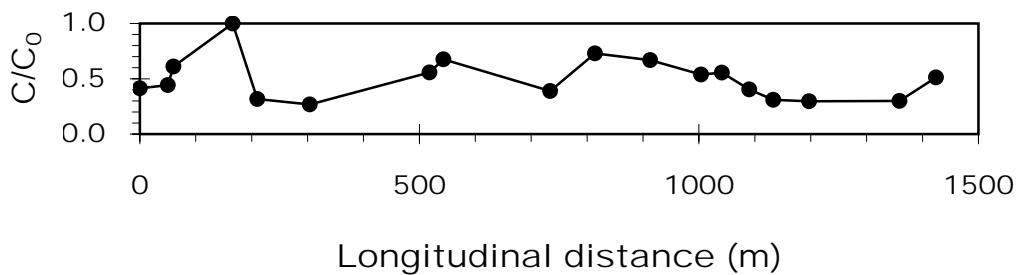
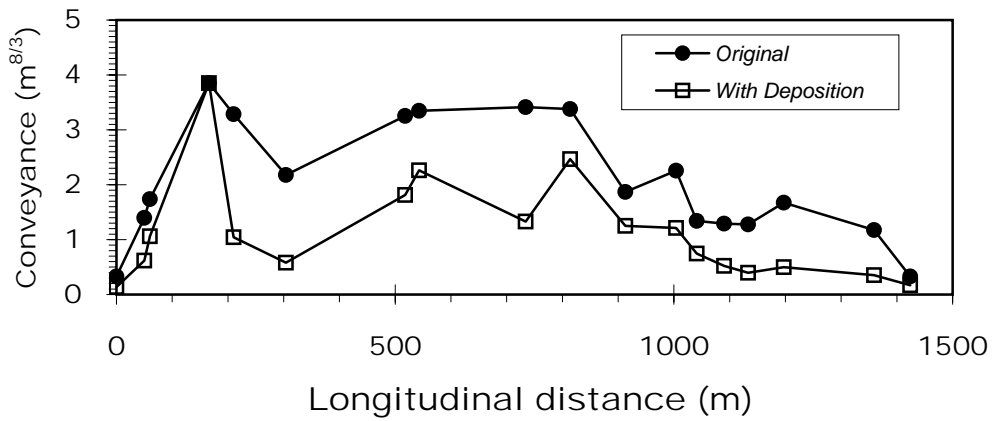
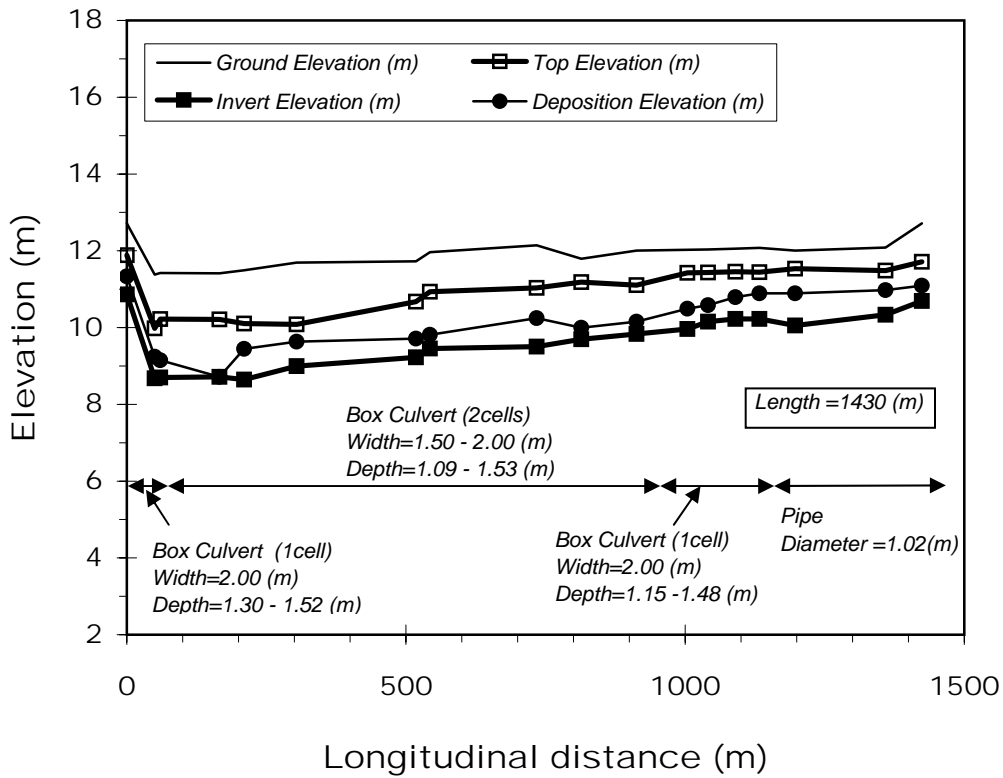
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND07 Pampanga-Earnshaw Sub



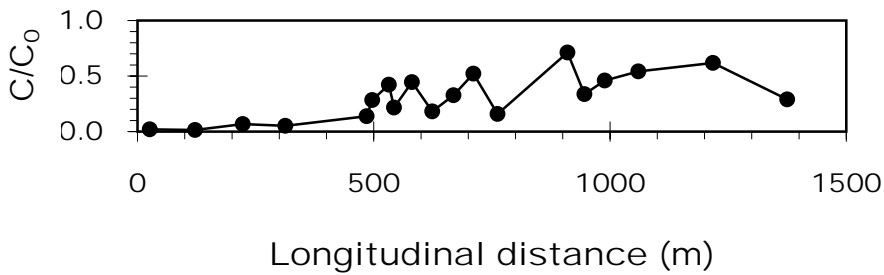
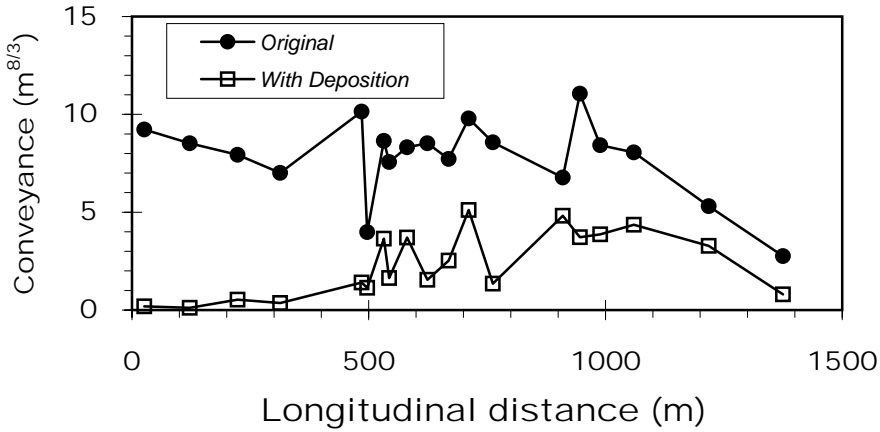
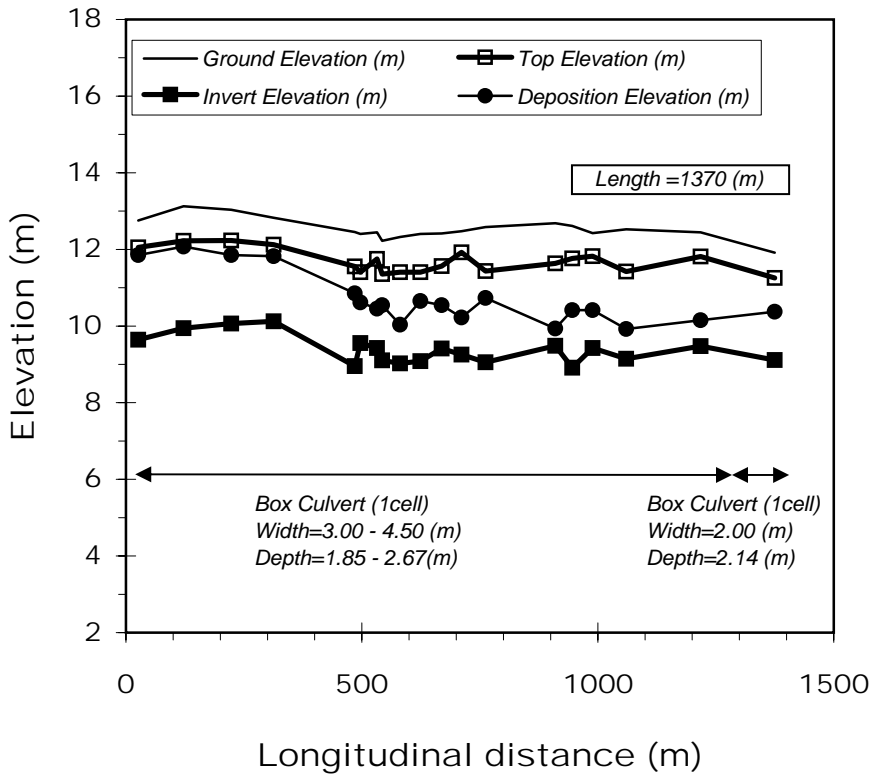
Note: C = Conveyance with deposition ($m^{8/3}$), C₀ = Conveyance without deposition ($m^{8/3}$)

ND08 Solis-Tecson



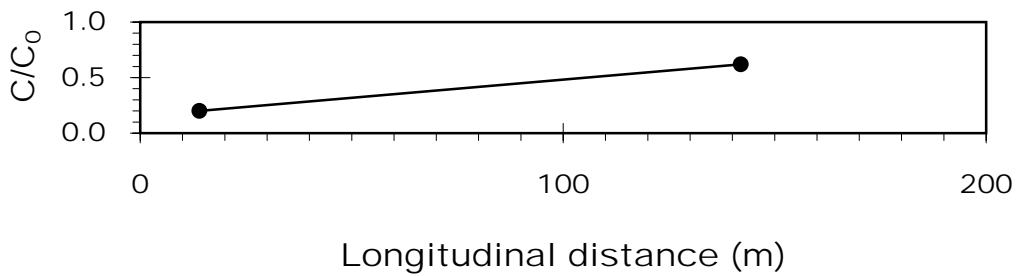
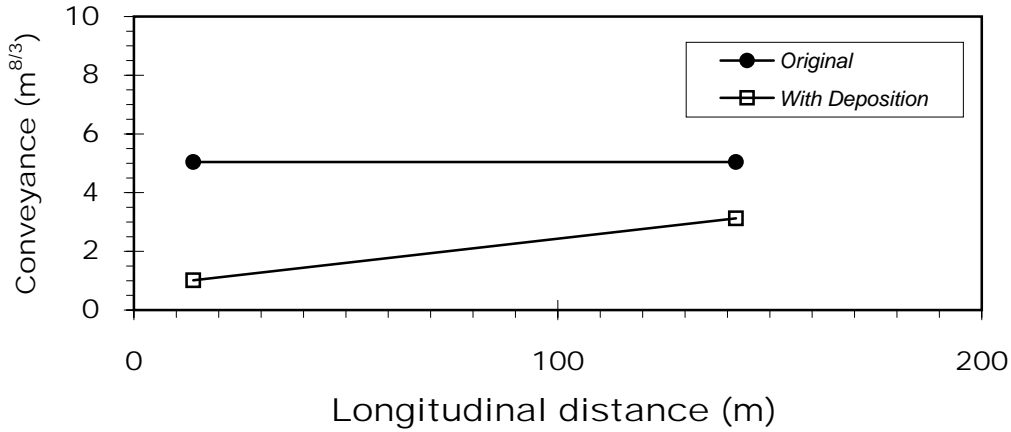
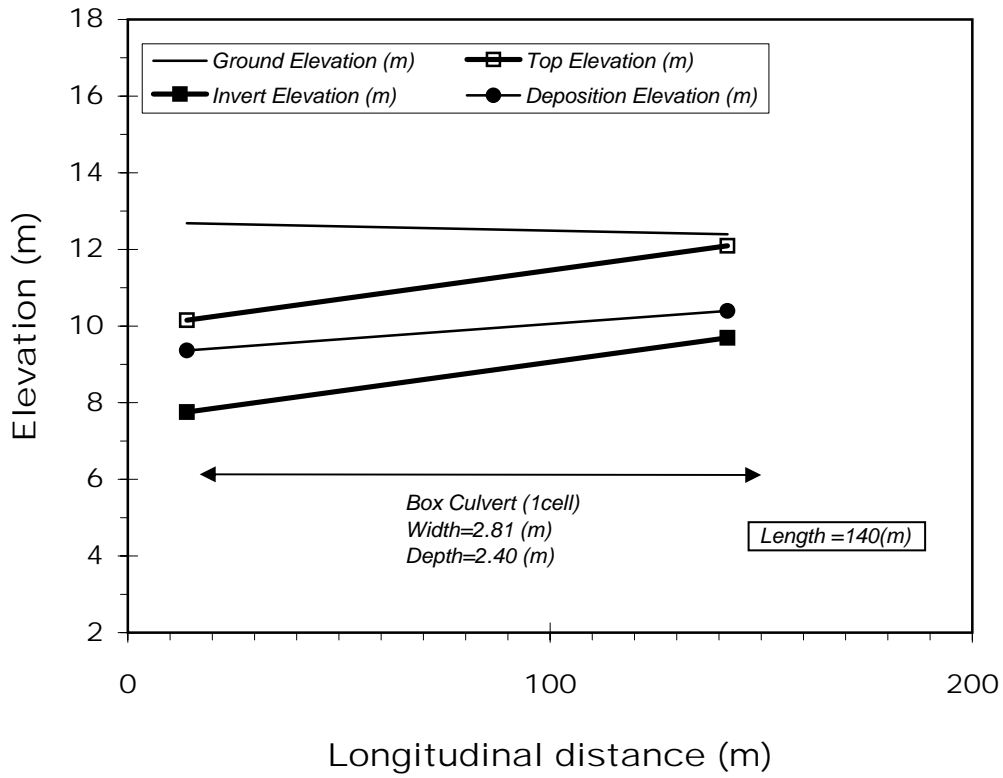
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

ND09 South Antipolo



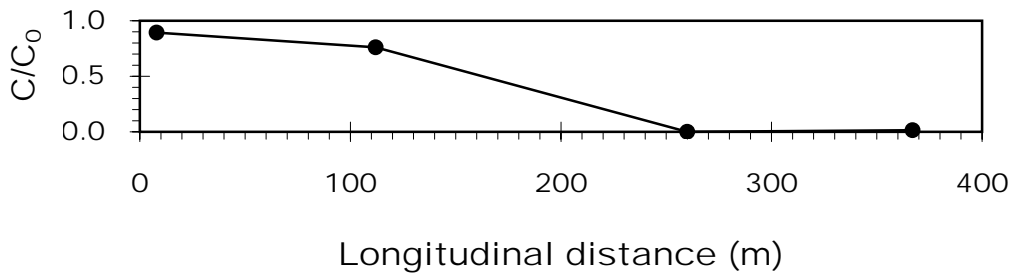
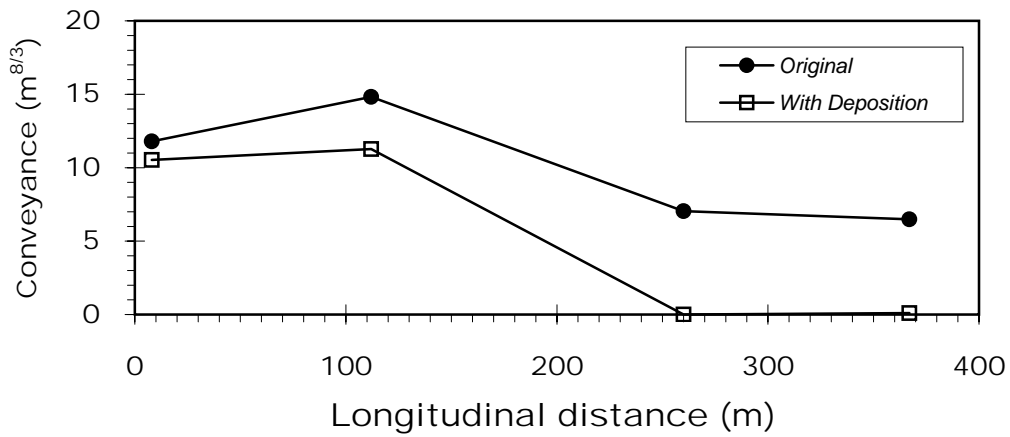
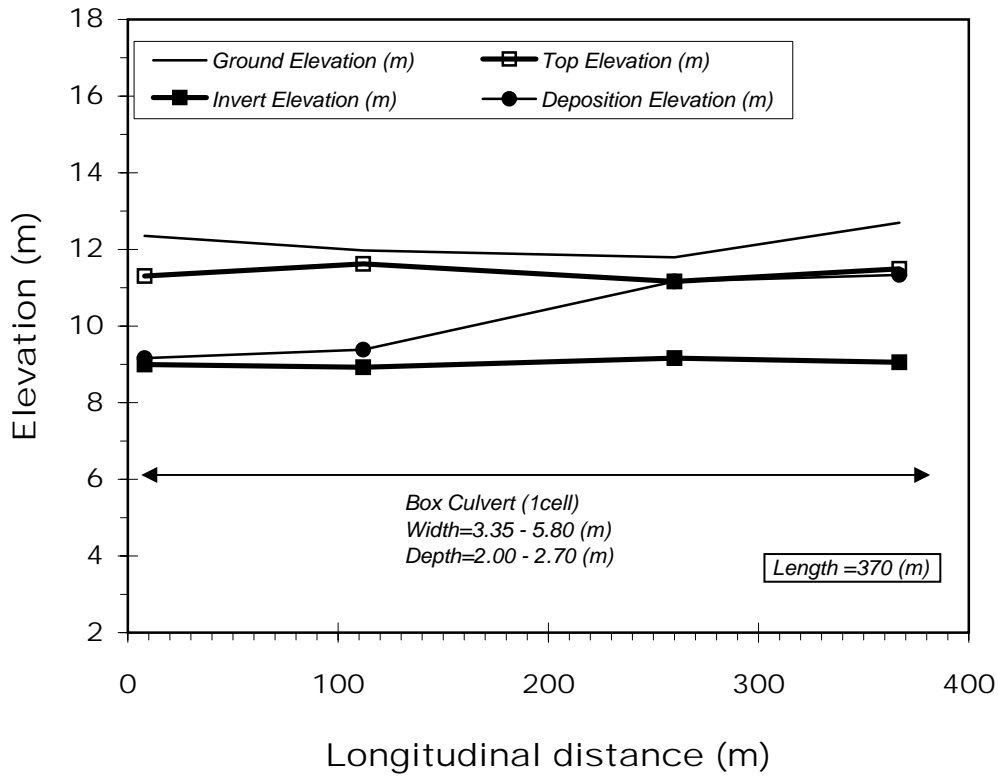
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND10 Kabulusan Sub



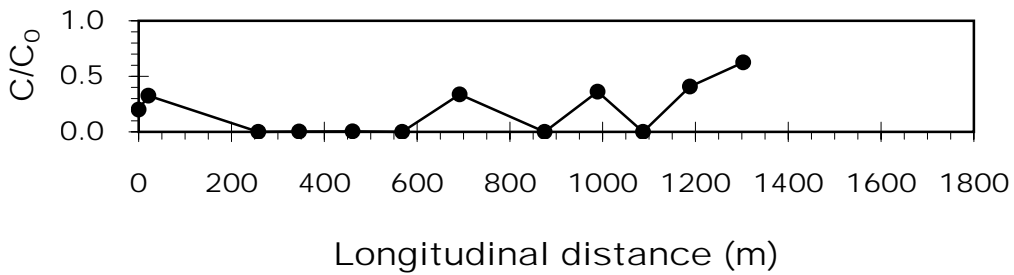
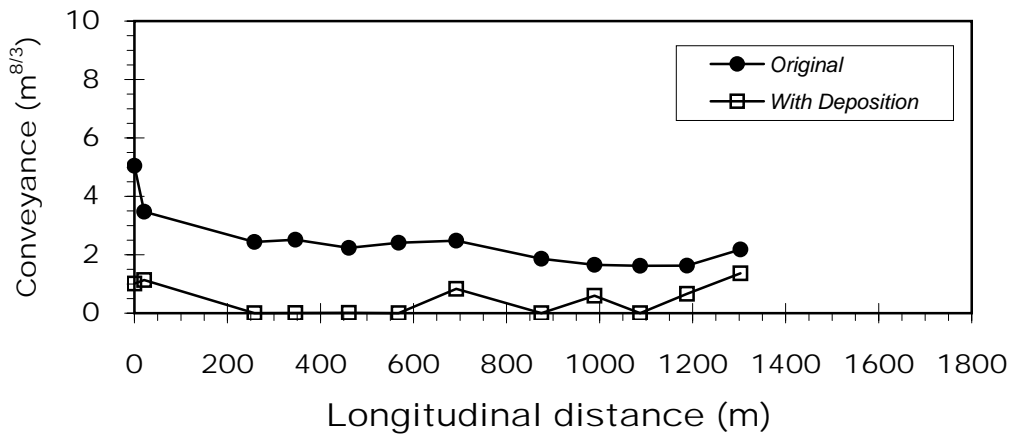
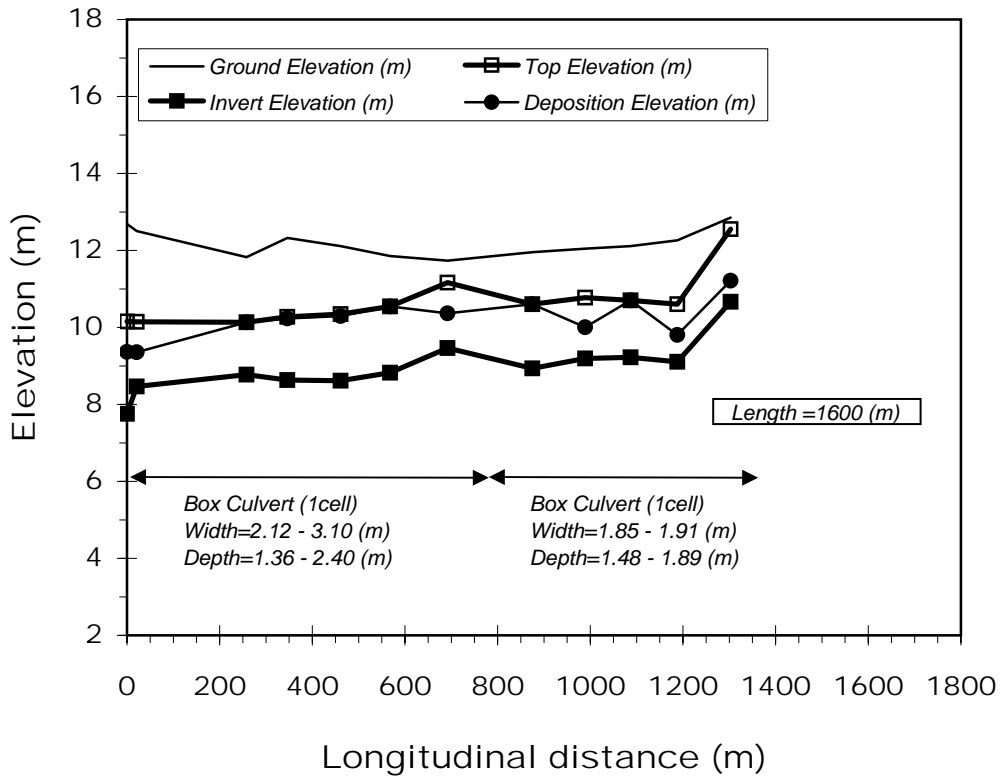
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND11 Kabulusan



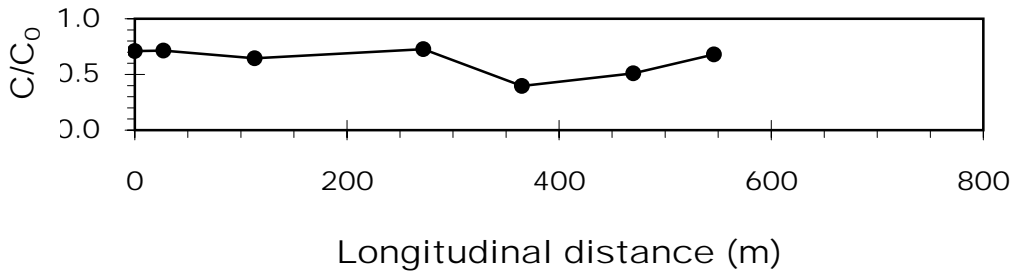
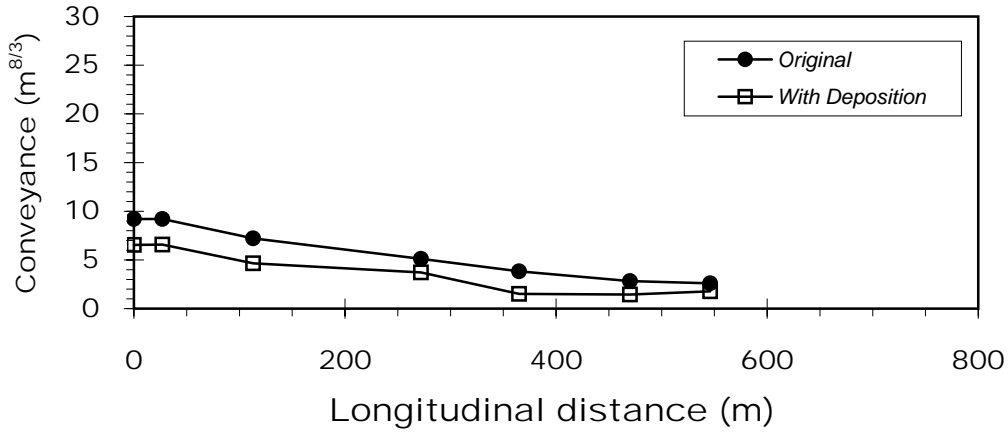
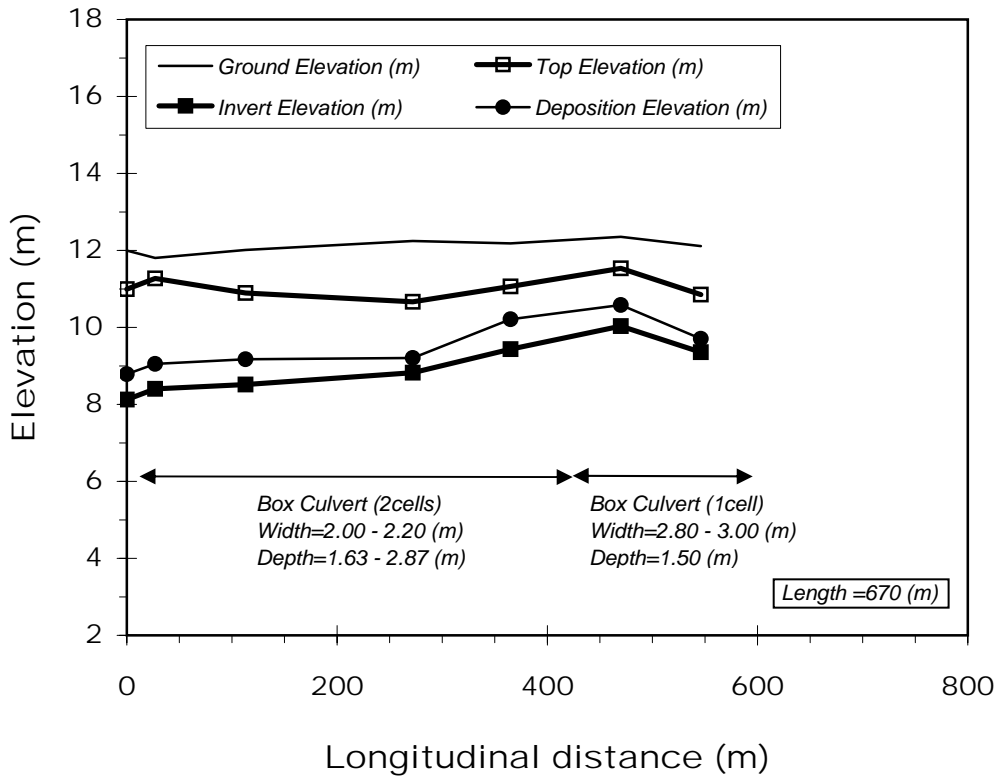
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND12 Tayuman



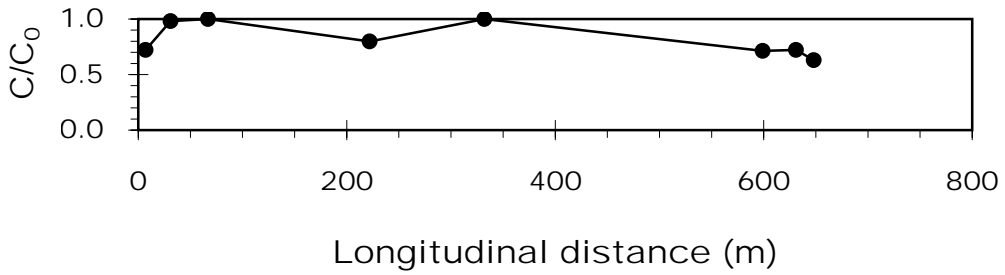
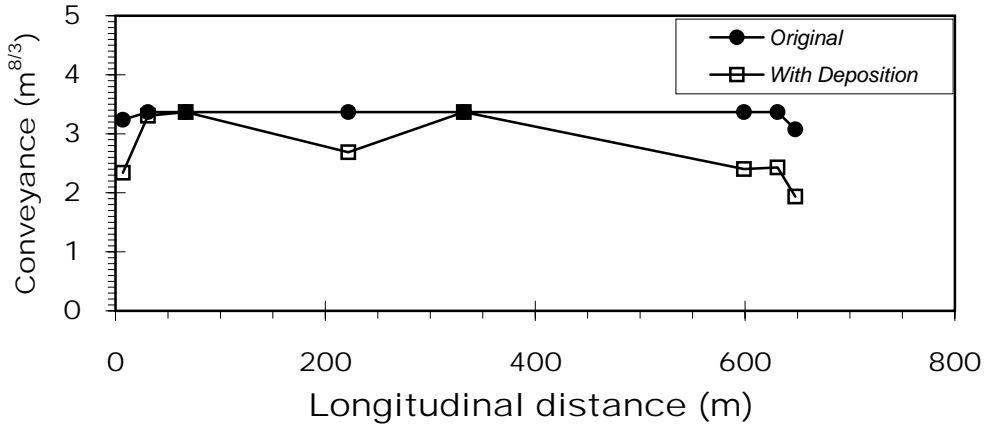
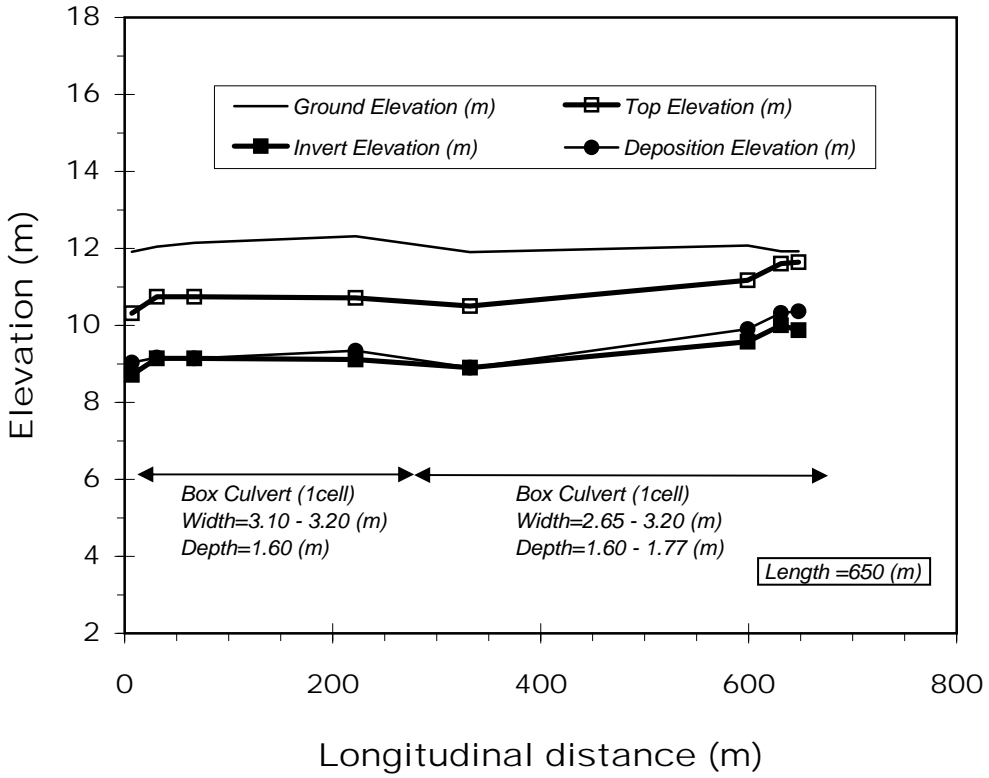
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND13 Fugoso



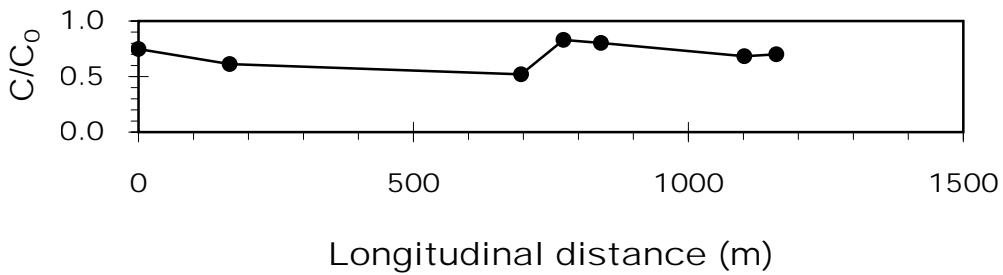
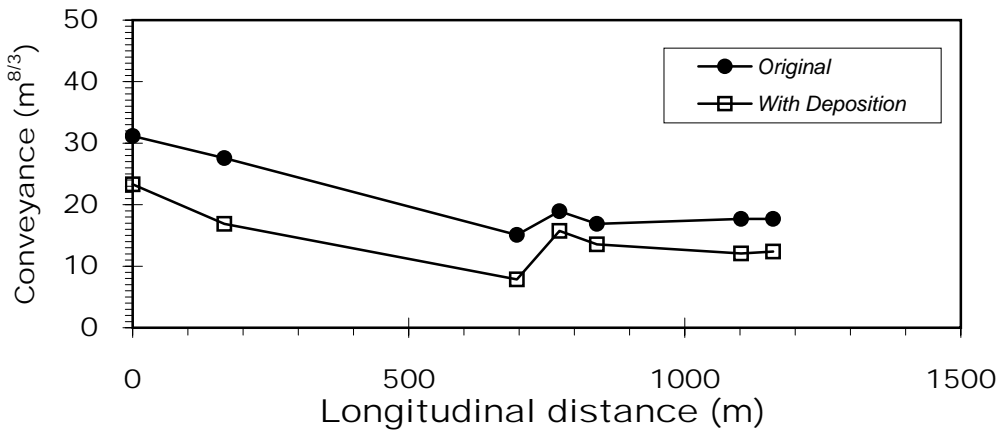
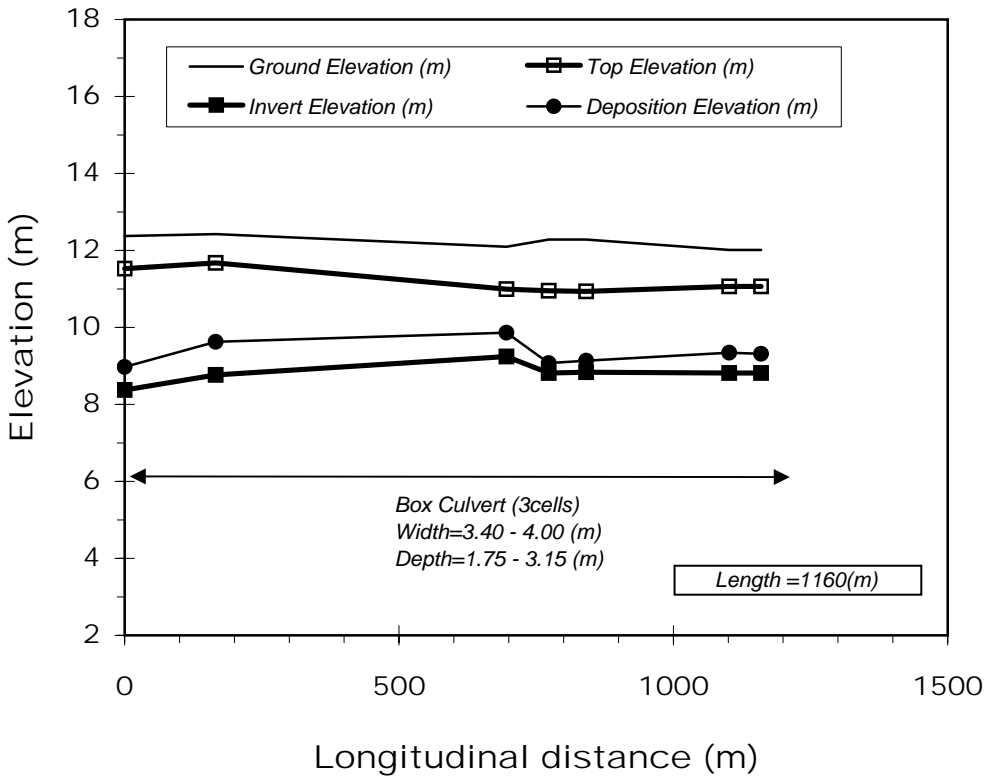
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

ND14 Severino- Reyes



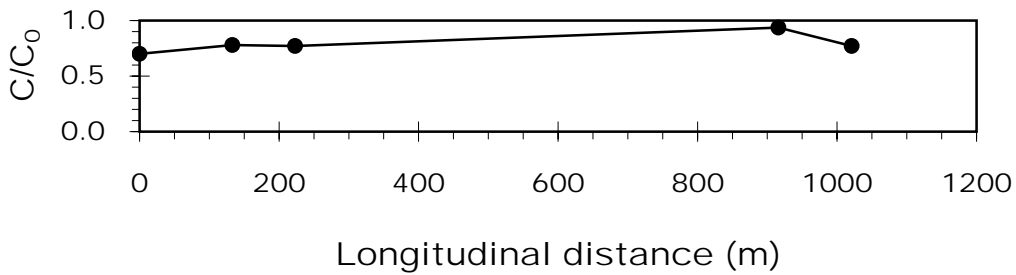
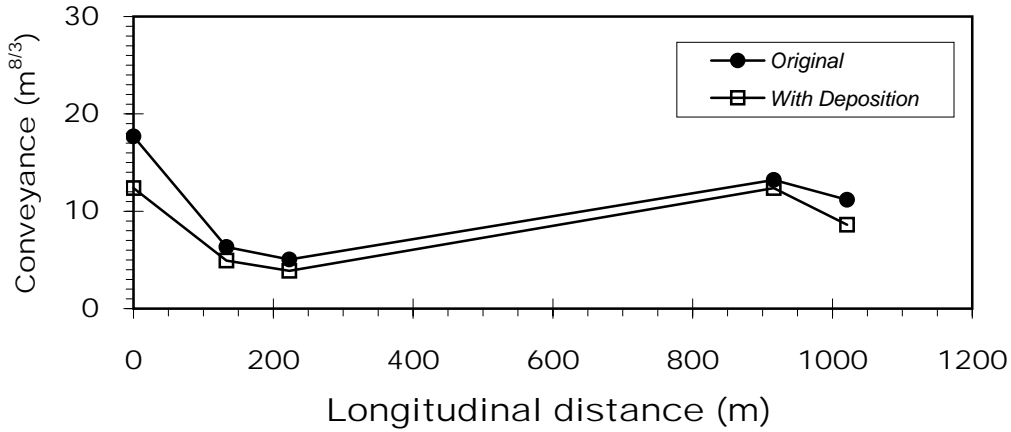
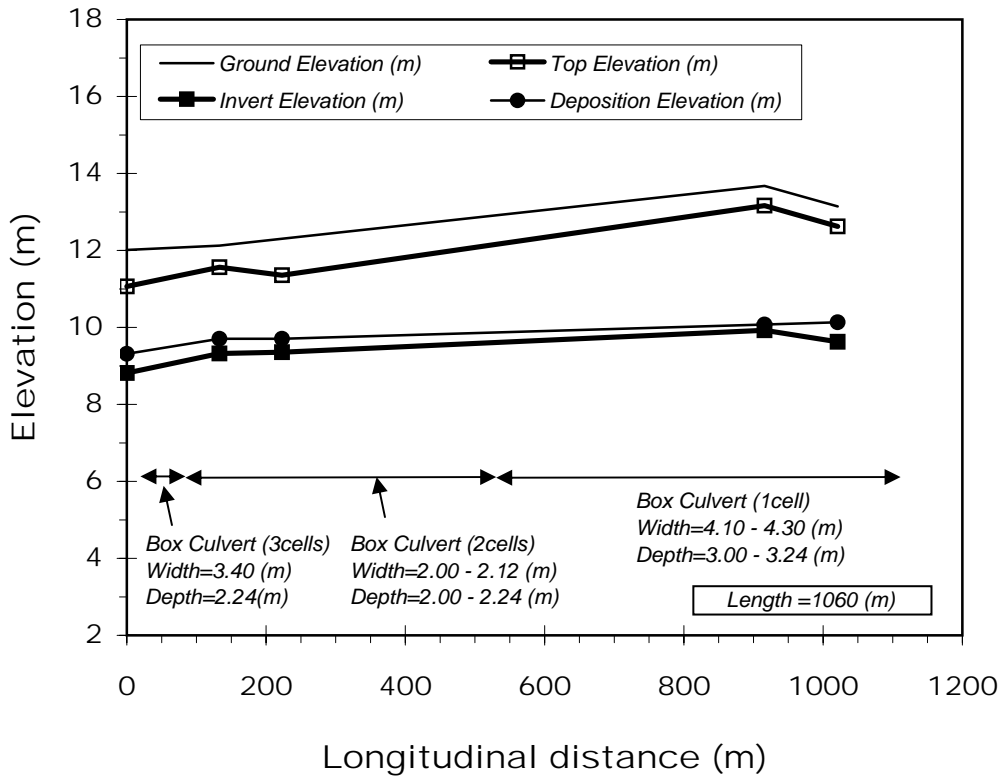
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

ND15 Lepanto-Gov.Forbes



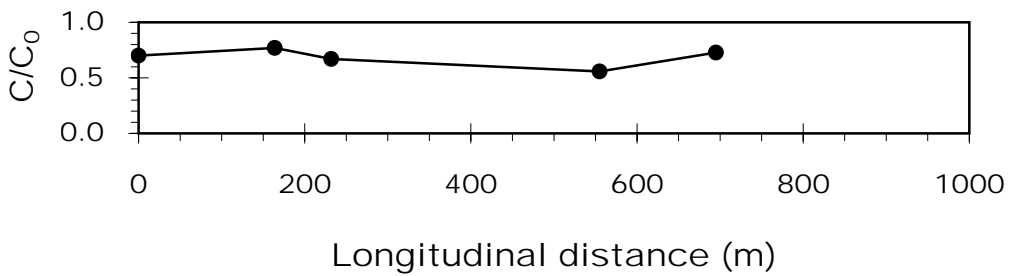
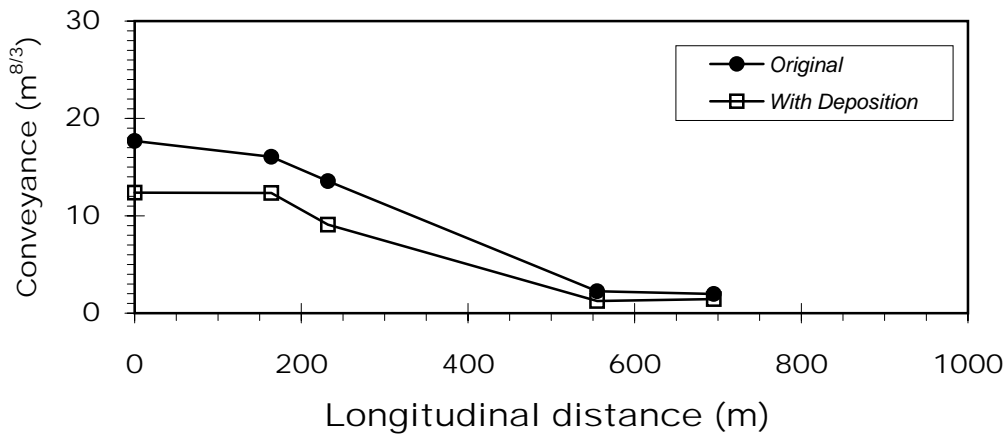
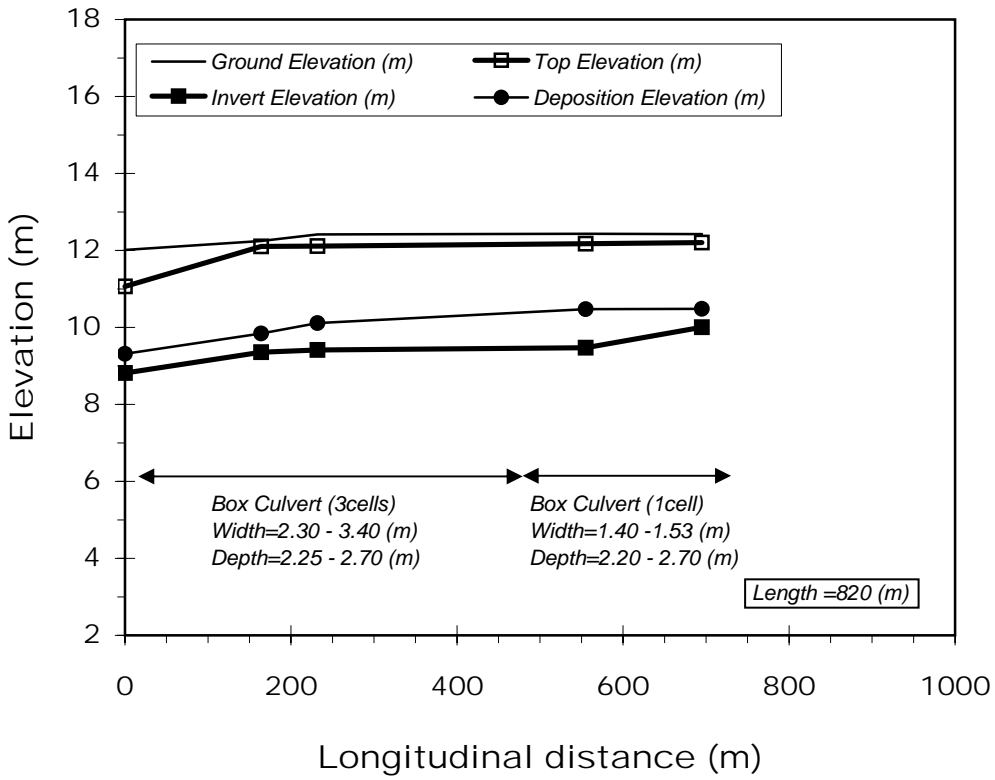
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

ND16 Lepanto-Josefina



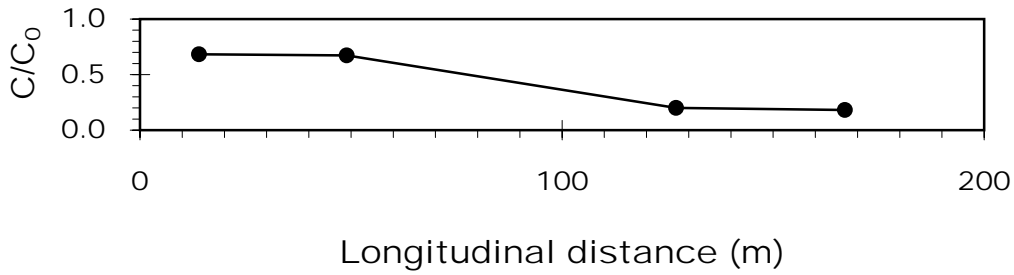
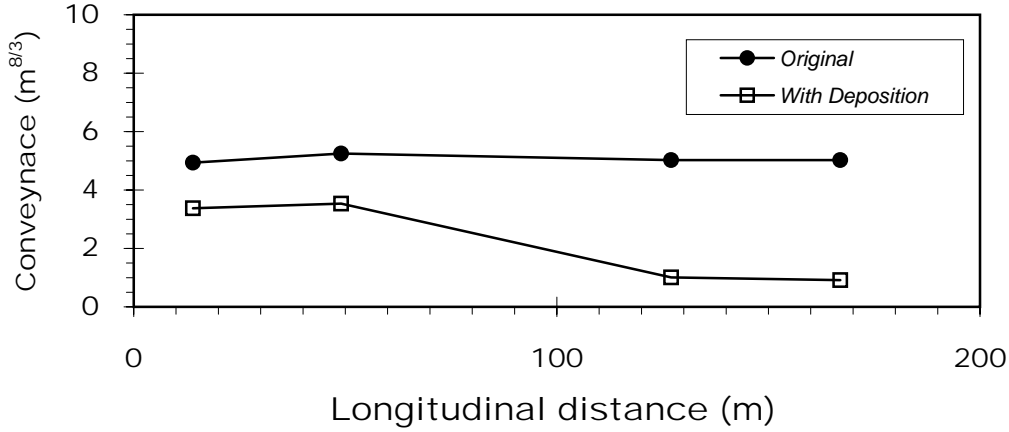
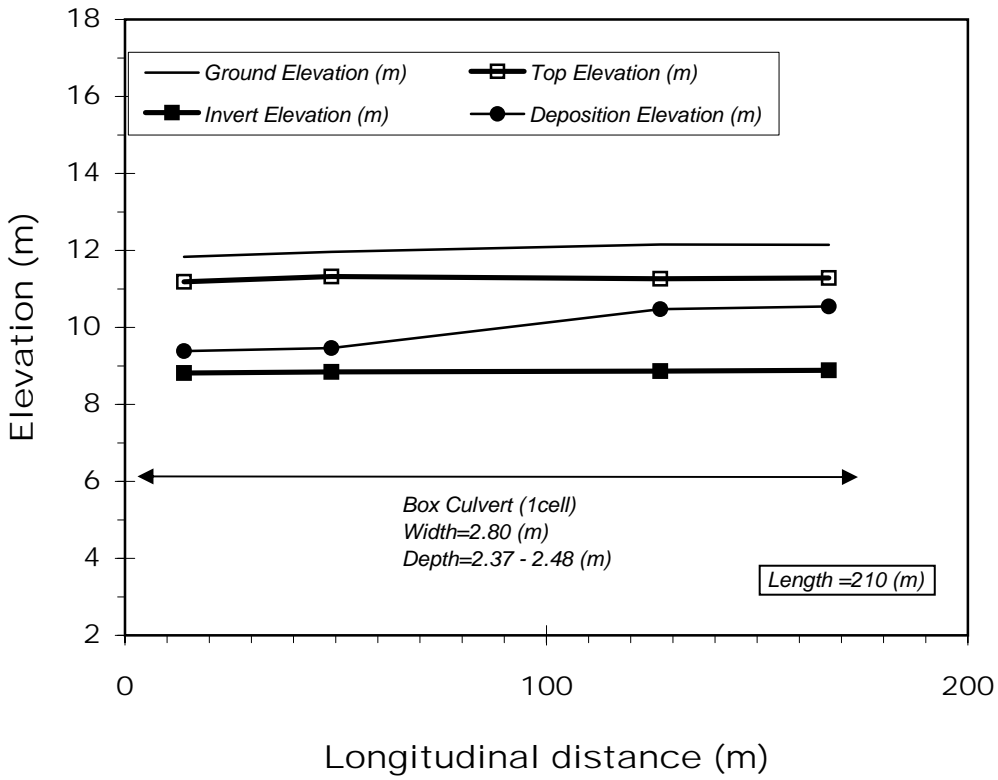
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

ND17 Economia



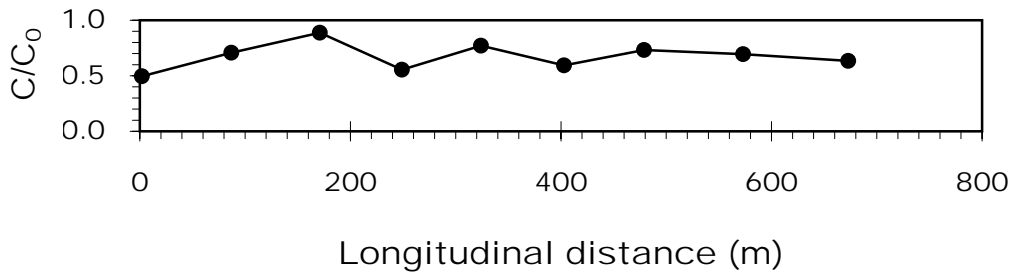
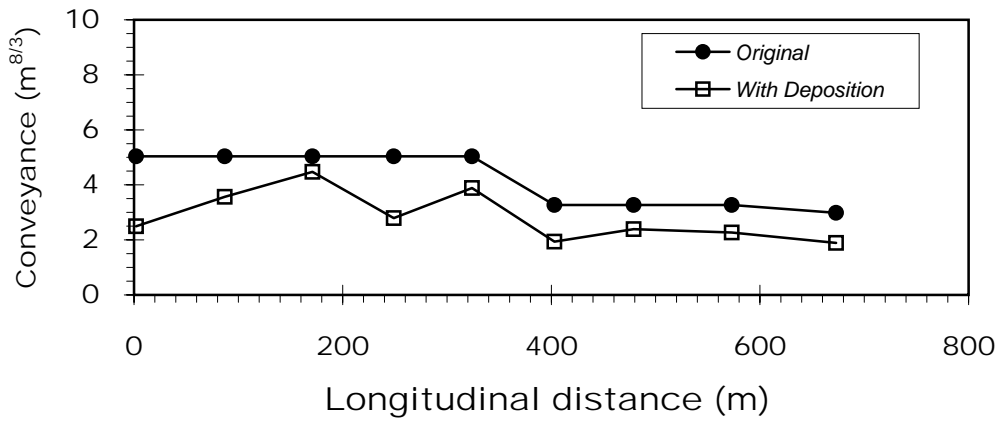
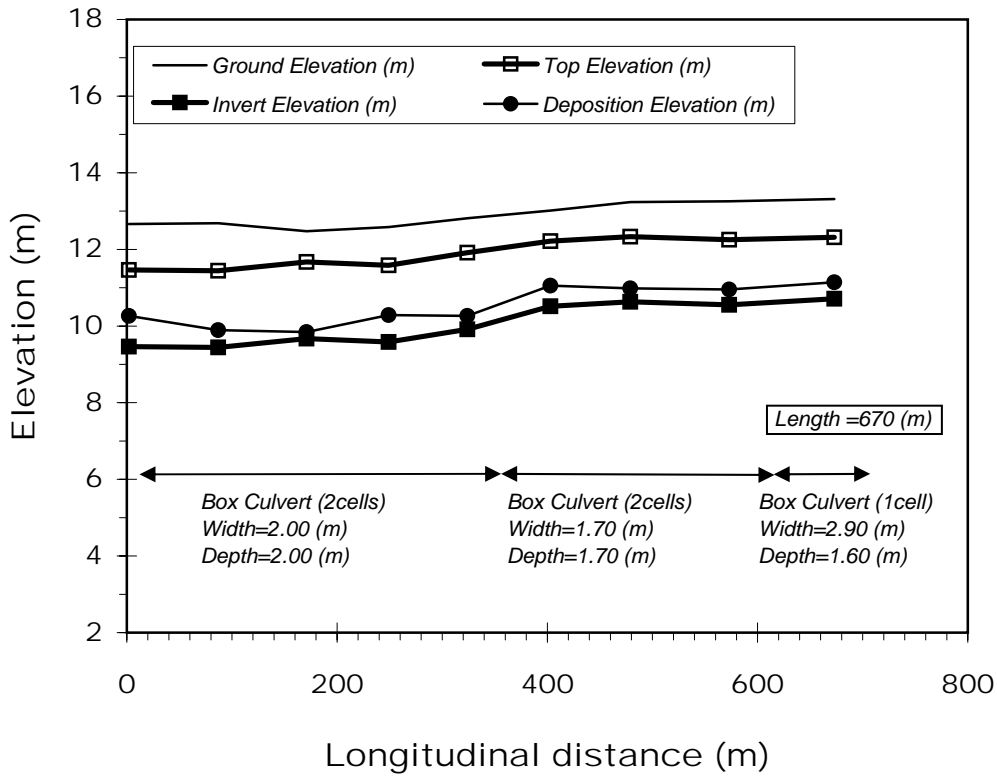
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

ND18 Washington-P.Margal



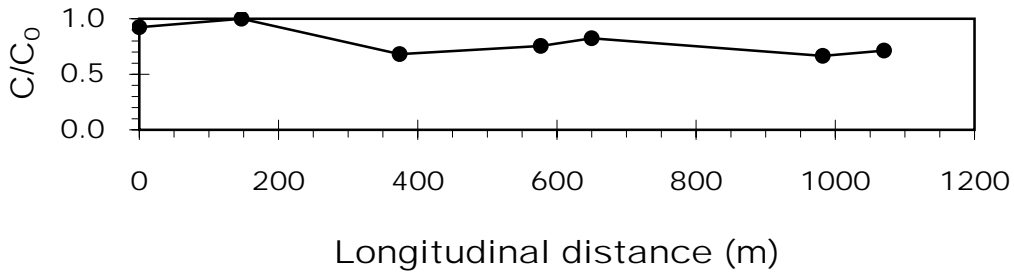
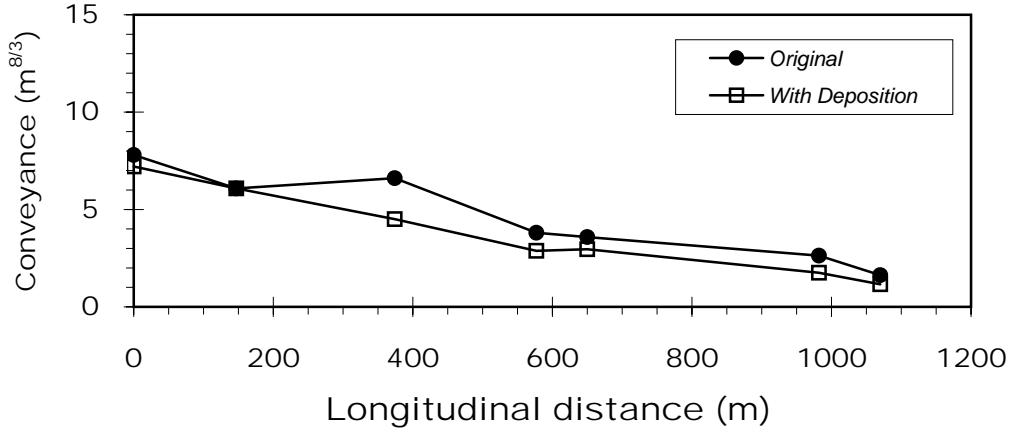
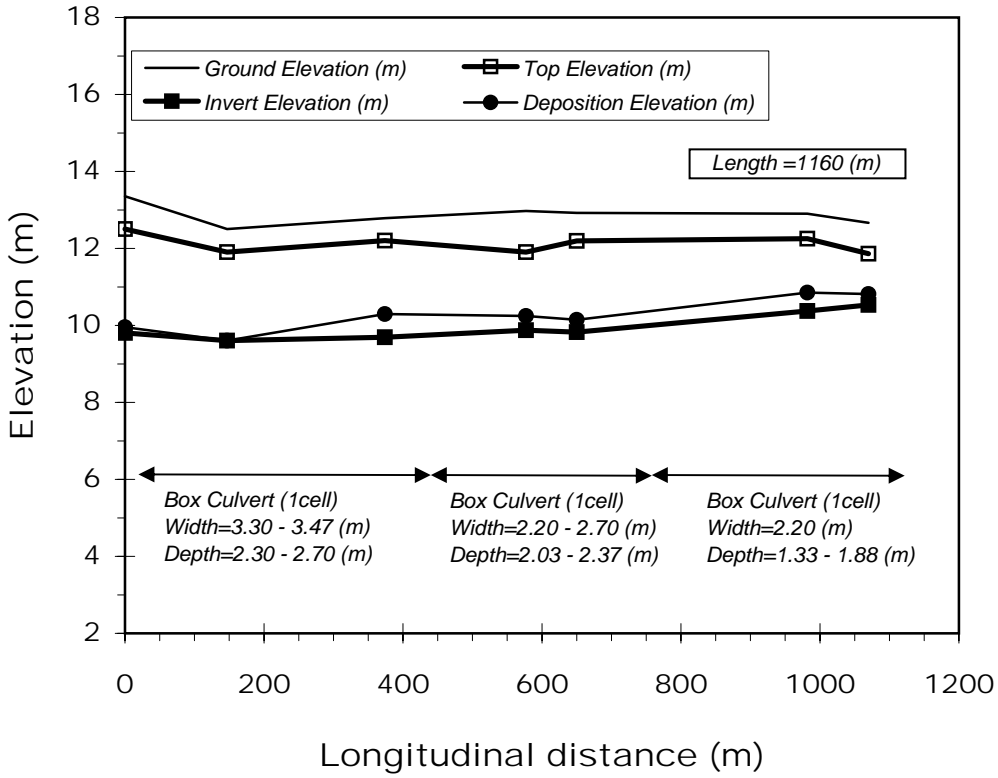
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ND19 Visayas



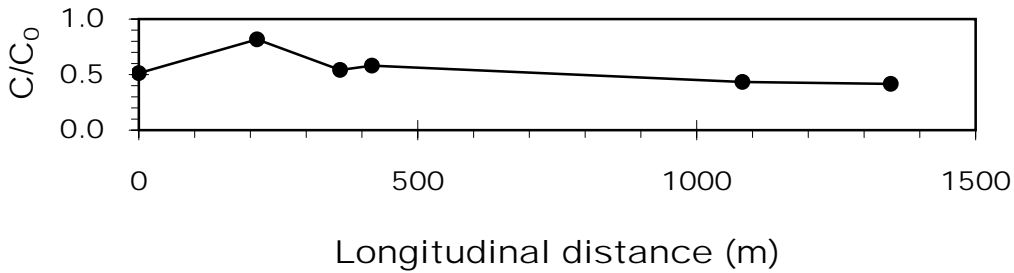
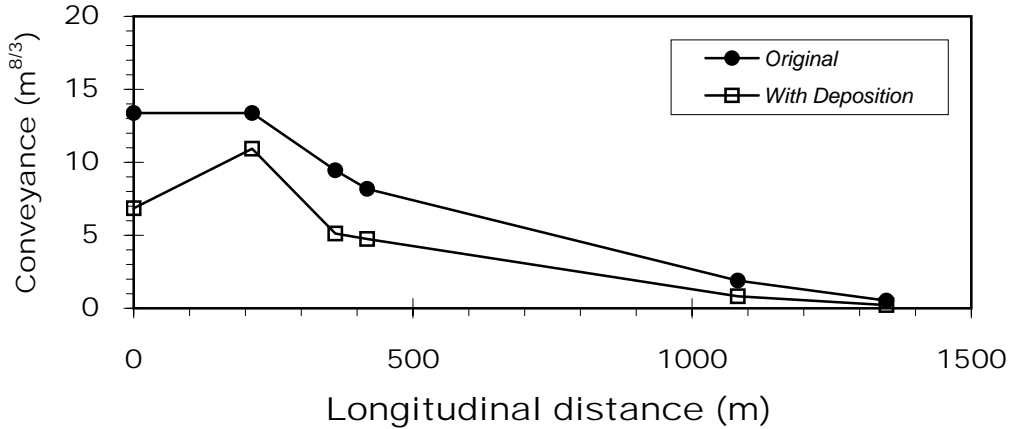
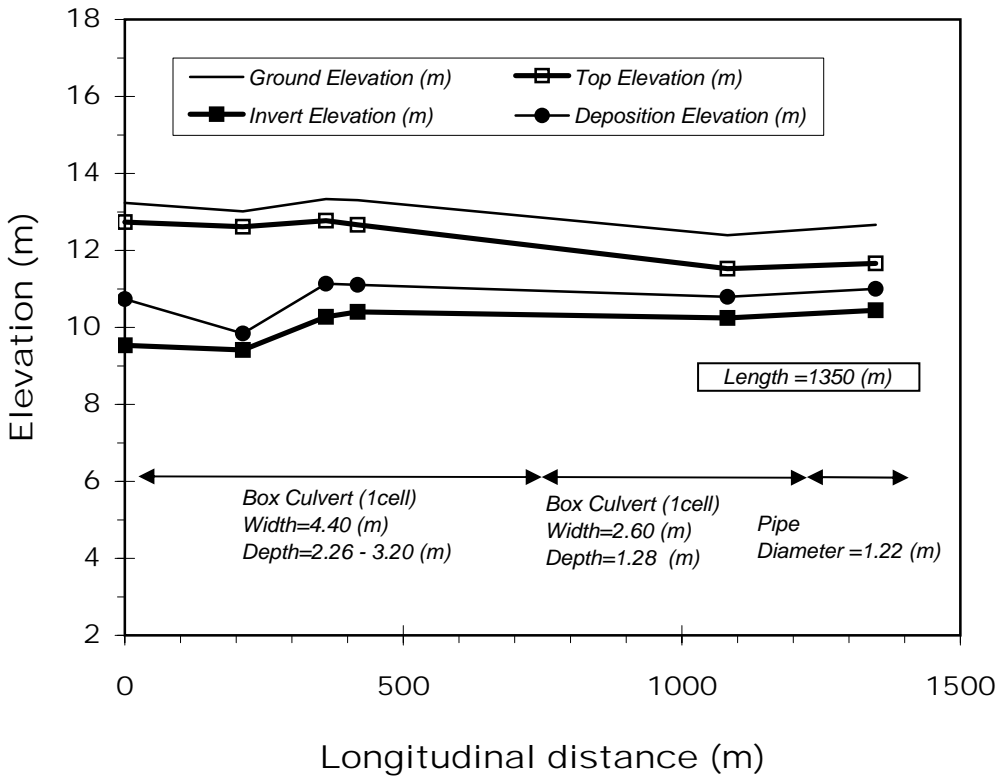
Note: C = Conveyance with deposition ($m^{8/3}$), C₀ = Conveyance without deposition ($m^{8/3}$)

SD01 Padre Faura



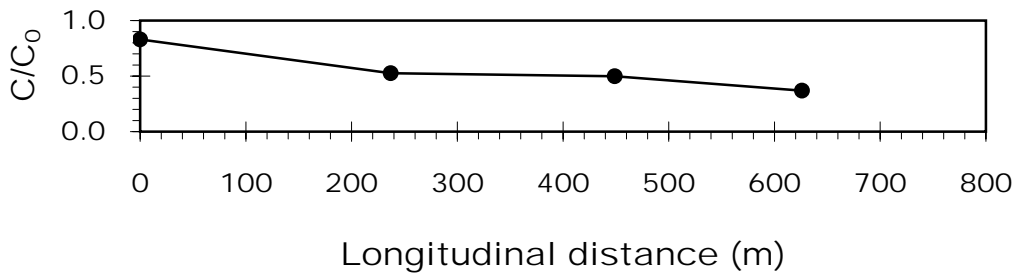
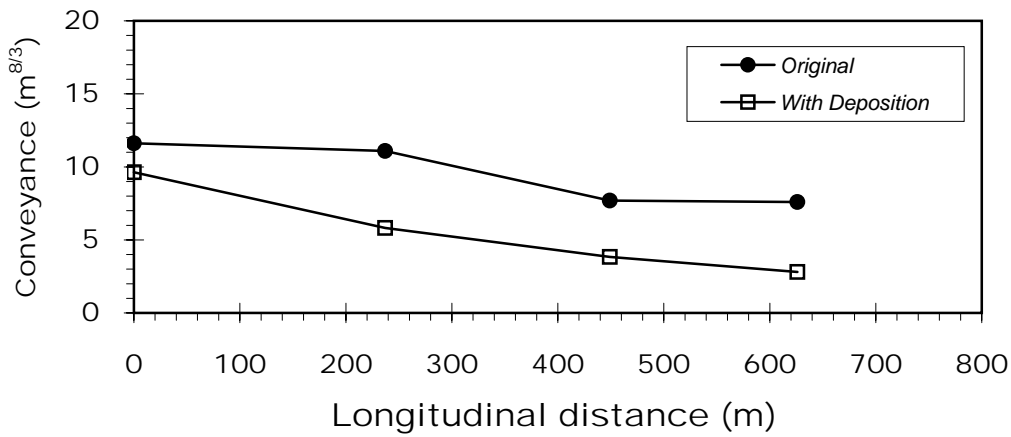
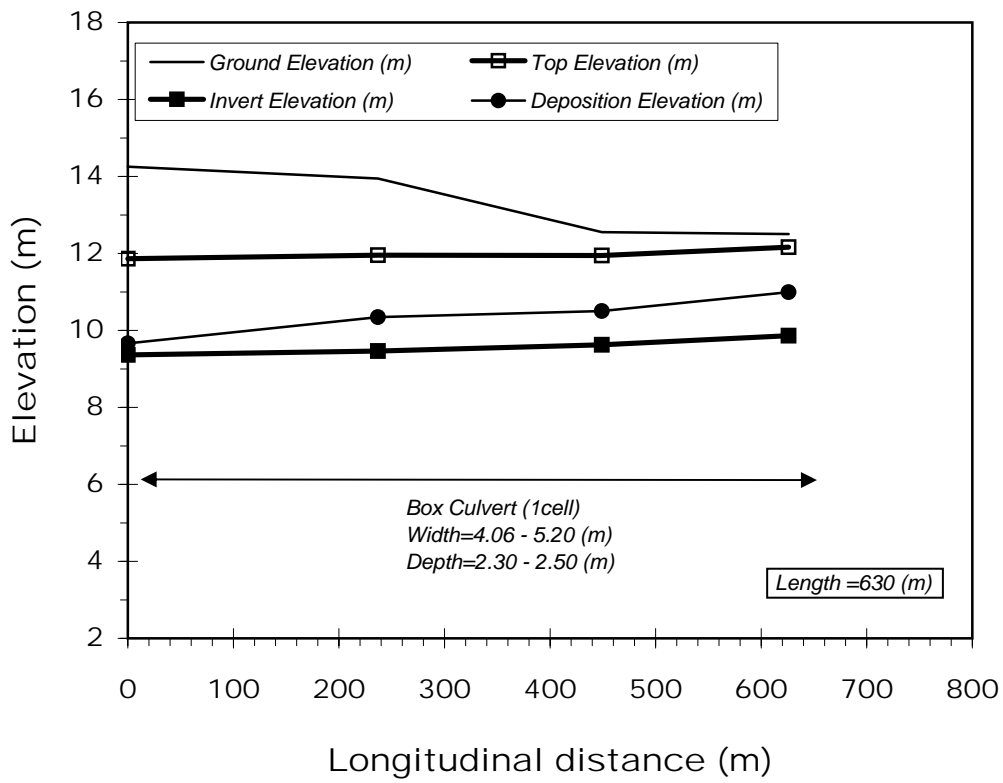
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

SD02 Remedious



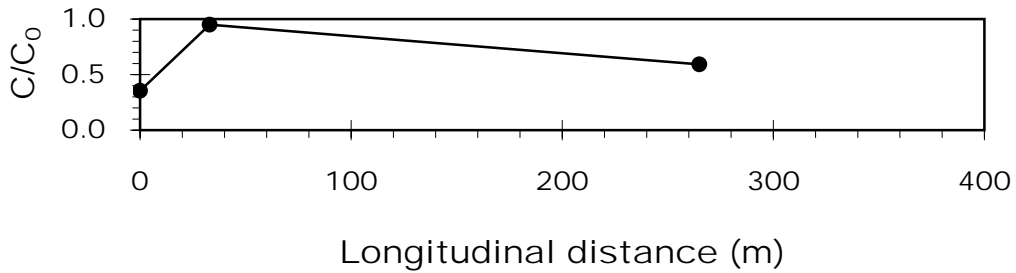
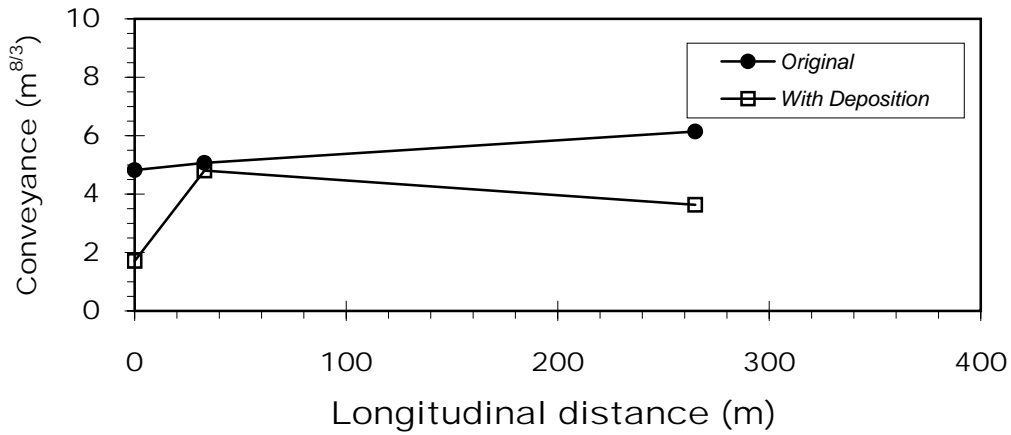
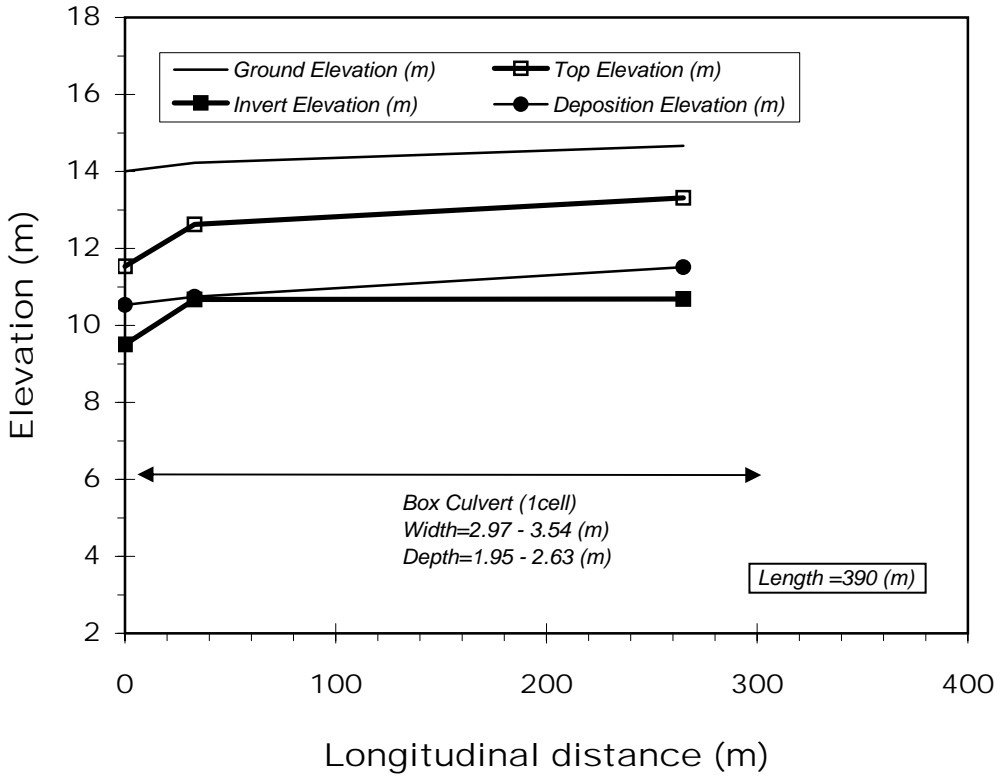
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD04 Makati Headrace - I



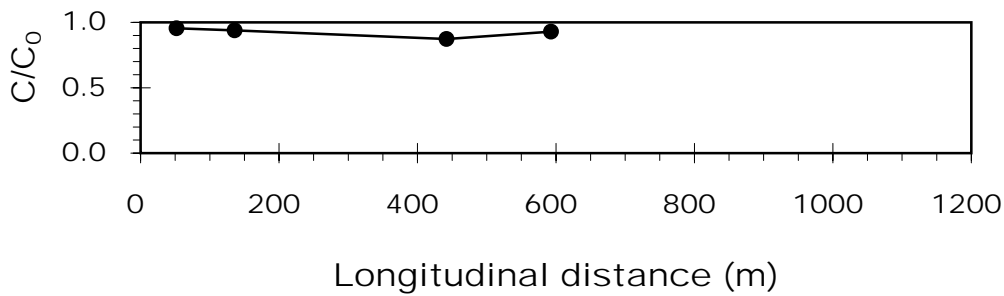
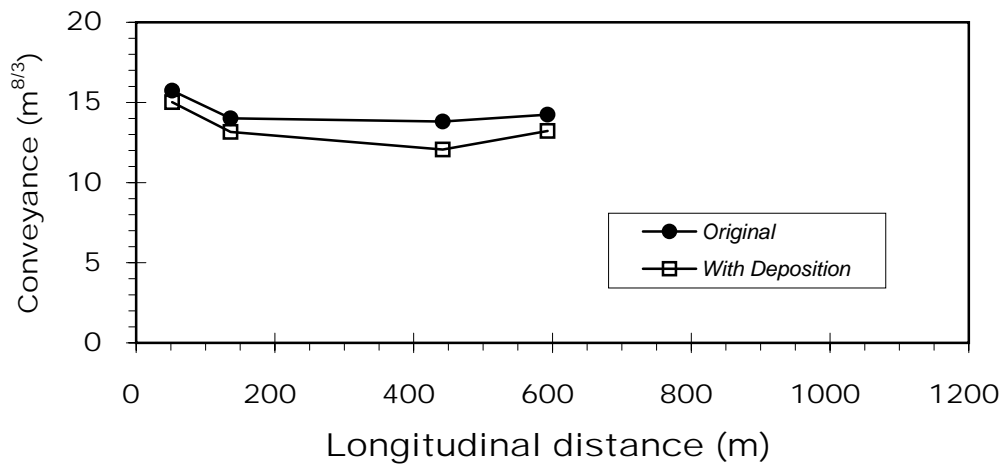
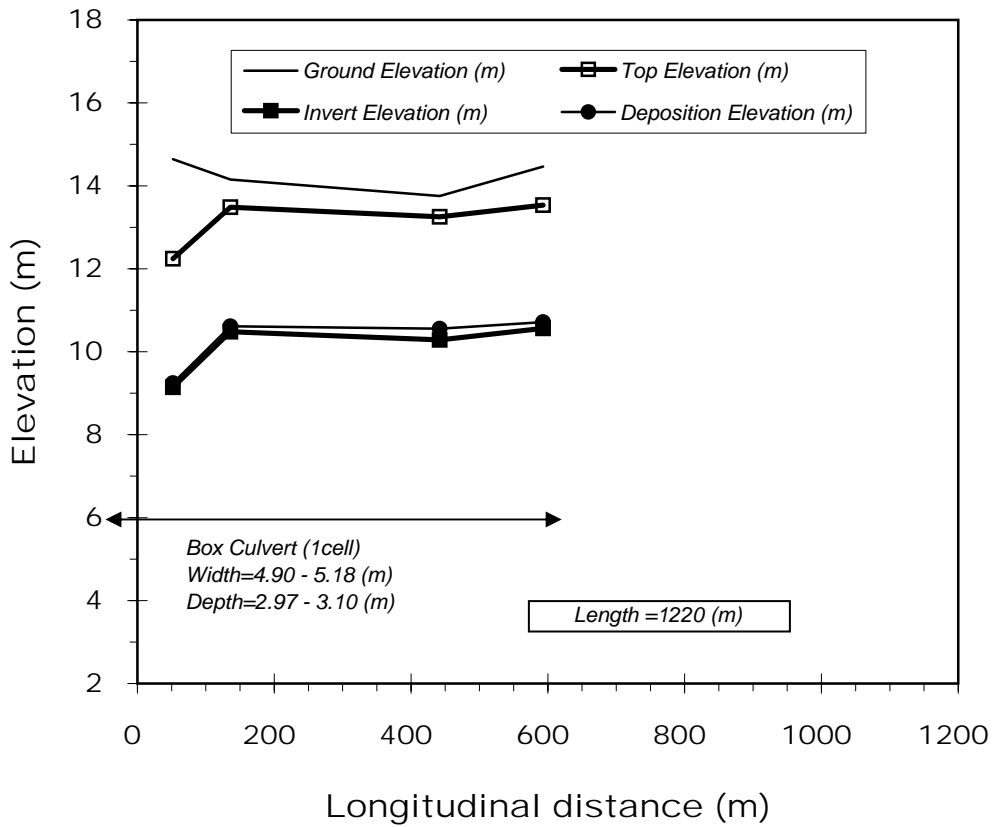
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD05 Makati Headrace - II



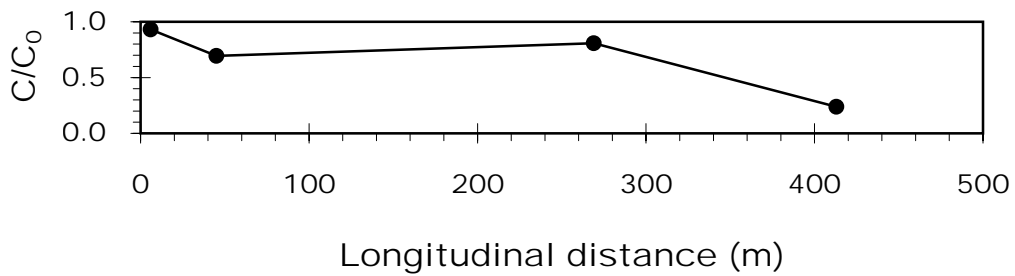
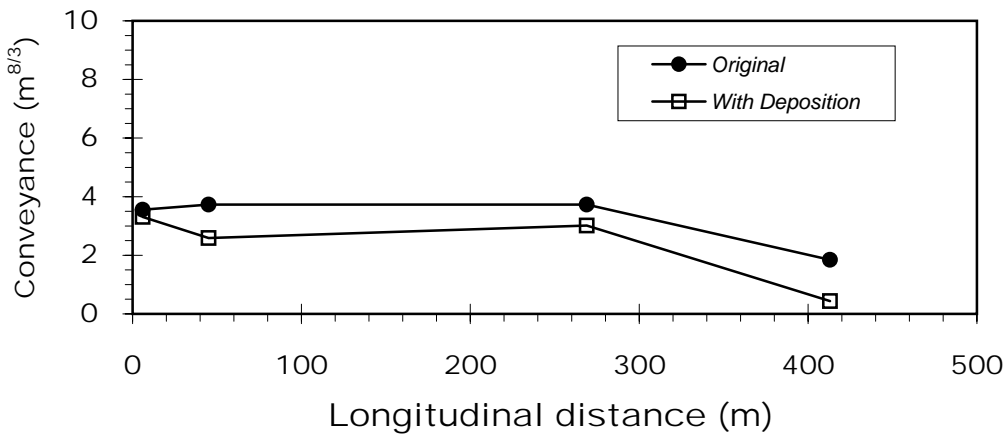
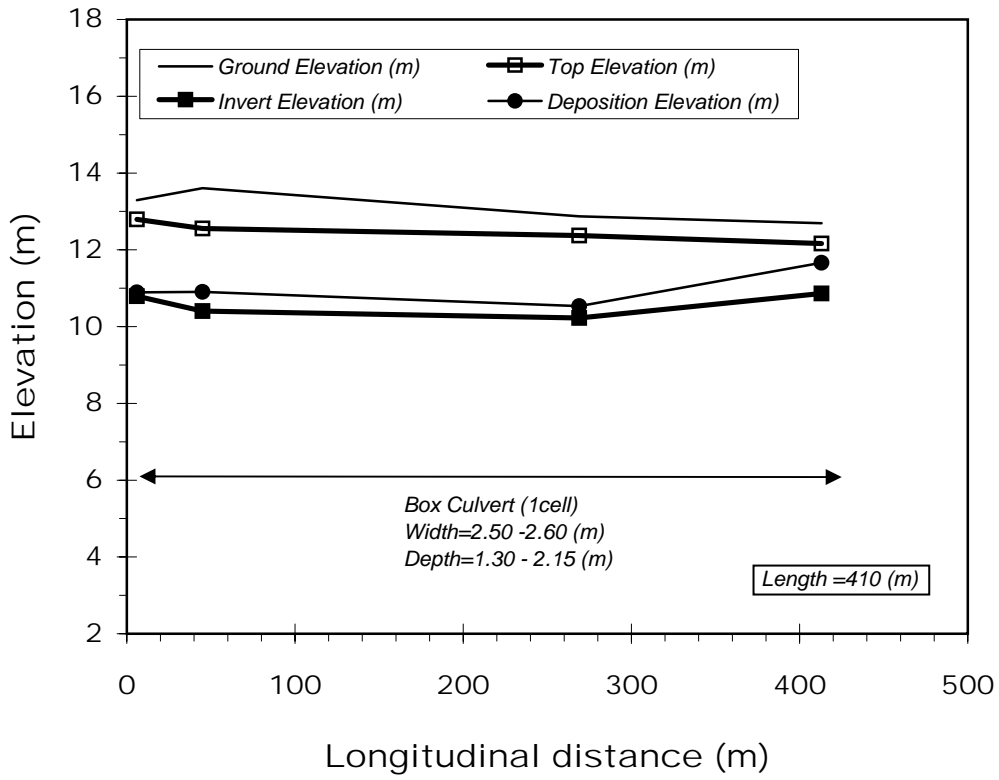
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD06 Zobel-Orbit



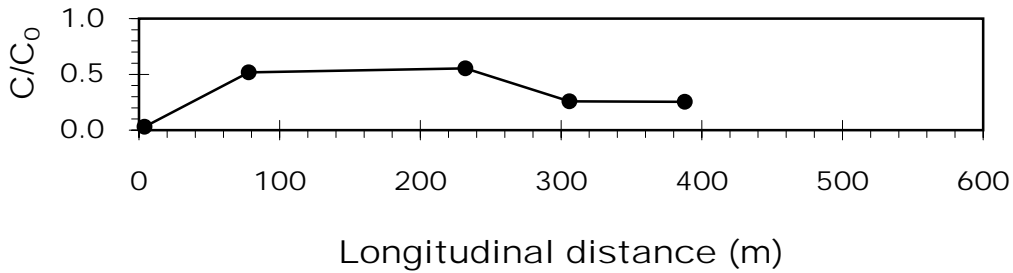
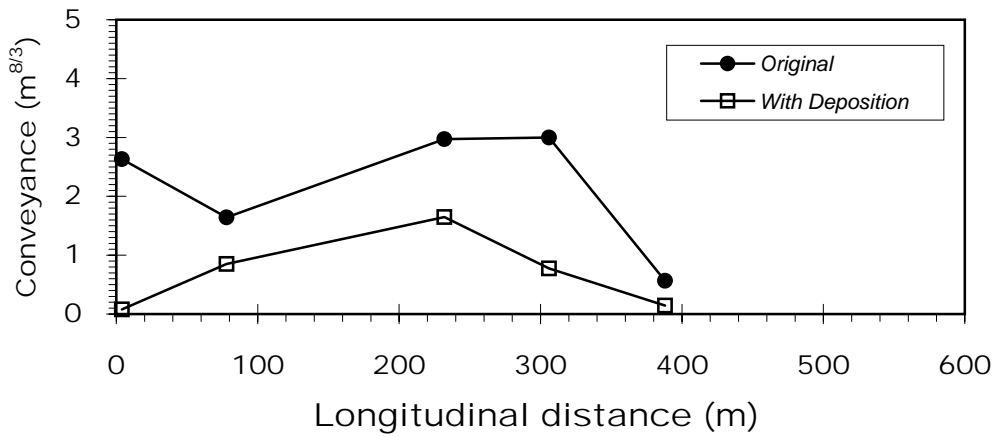
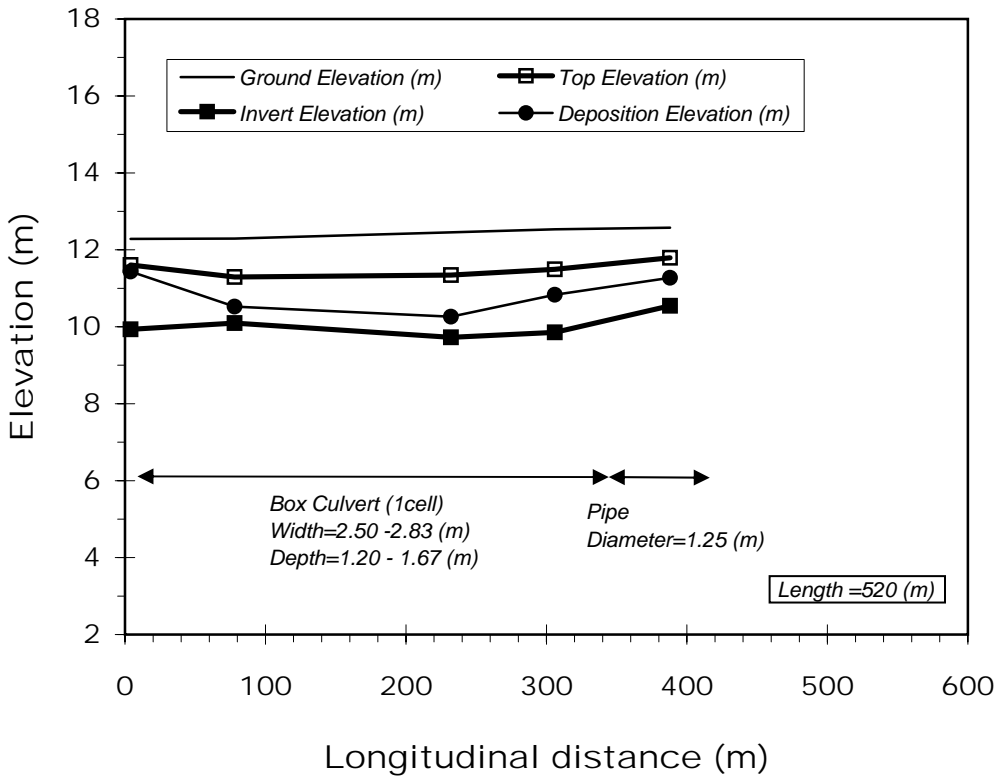
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD07 Onyx



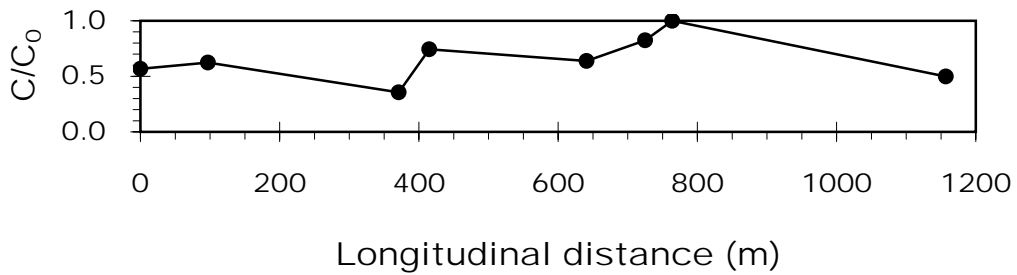
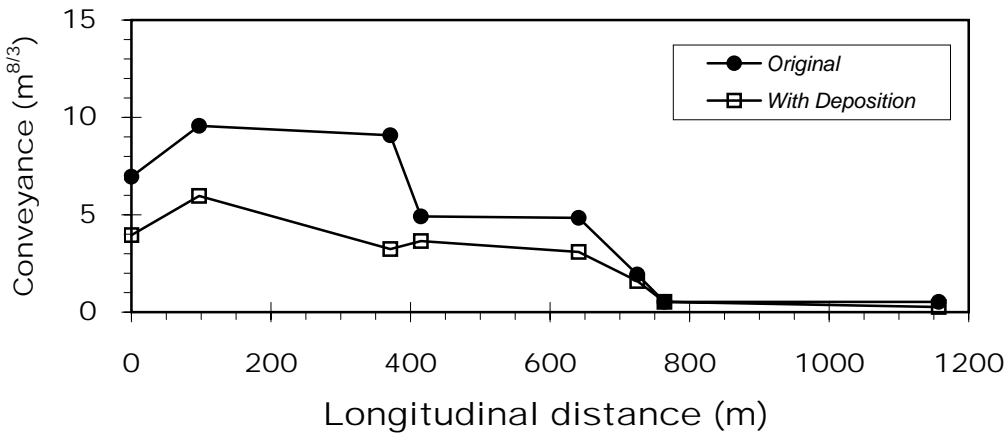
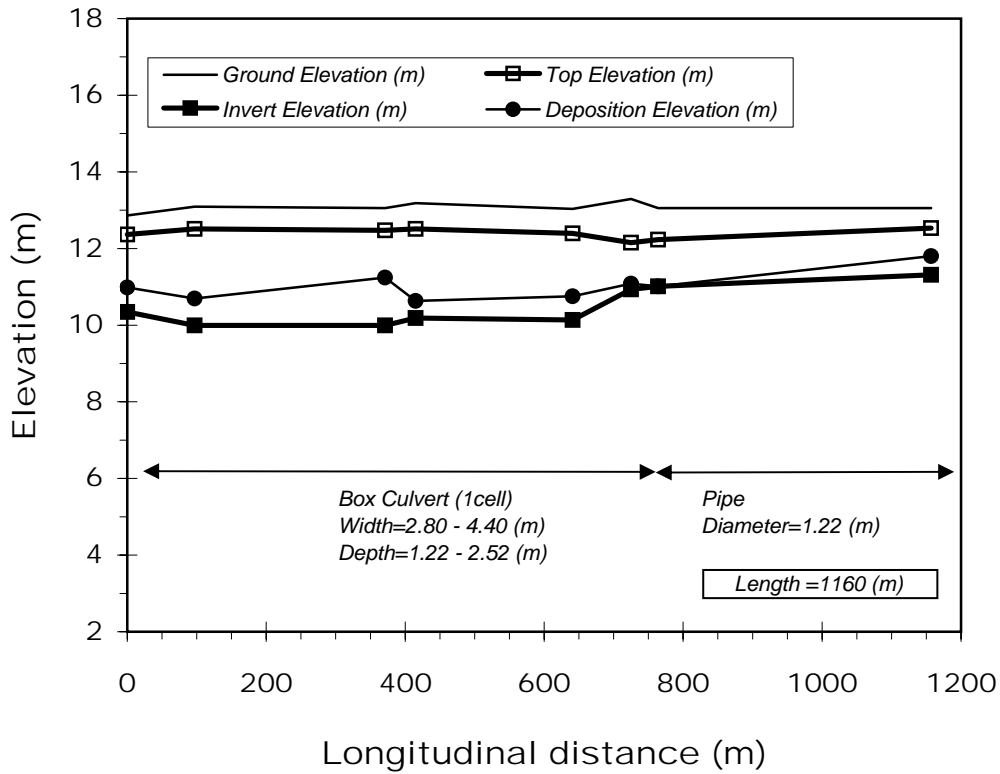
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD08 Estrada



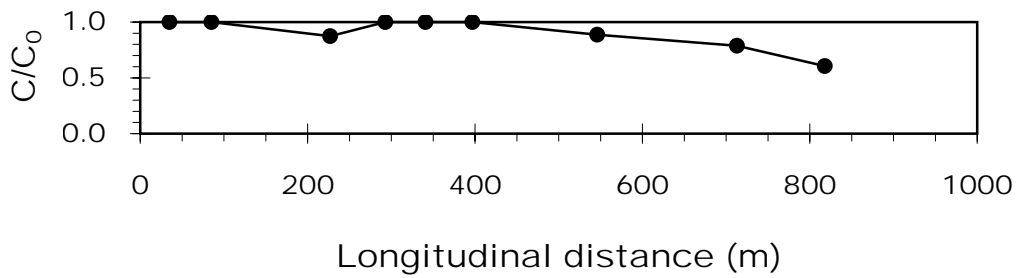
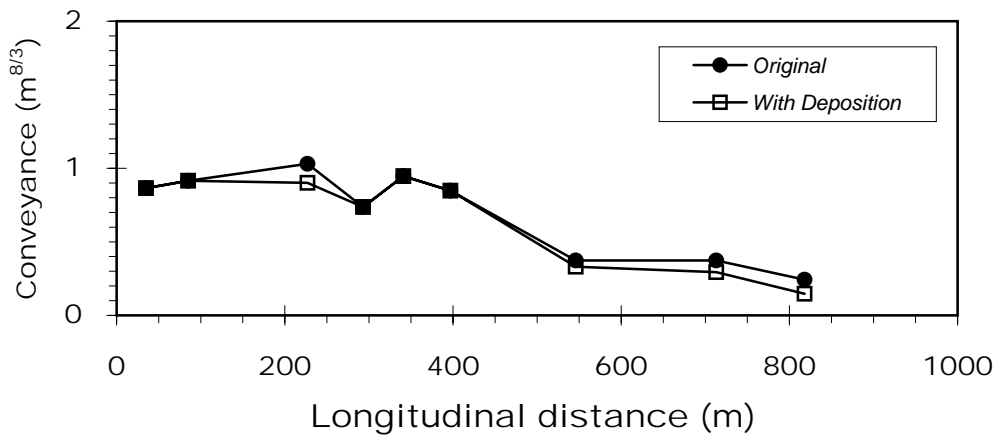
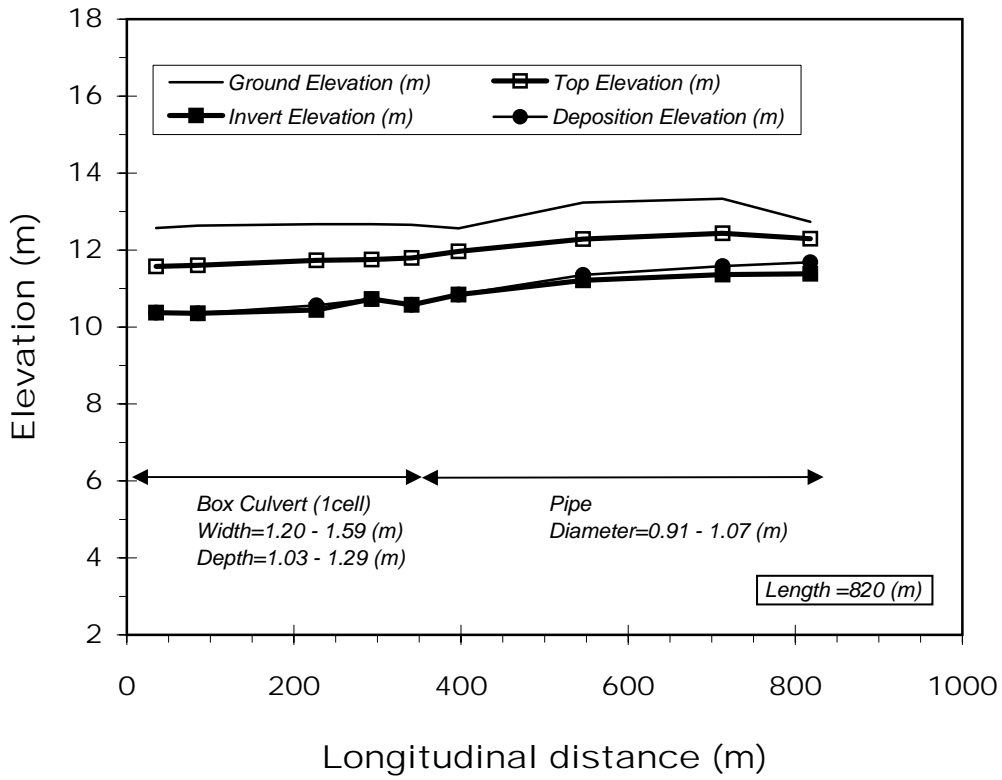
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

SD09 Zobel Roxas



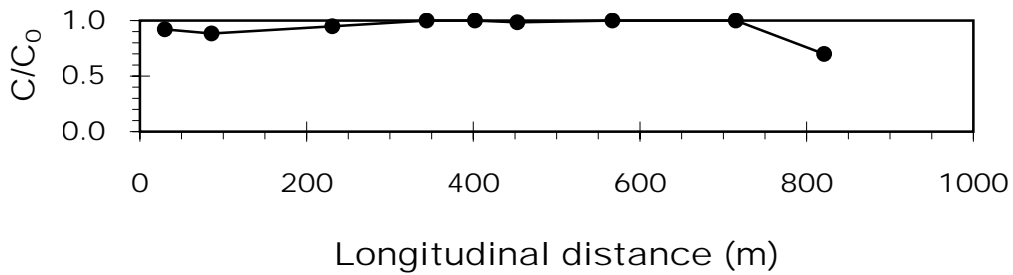
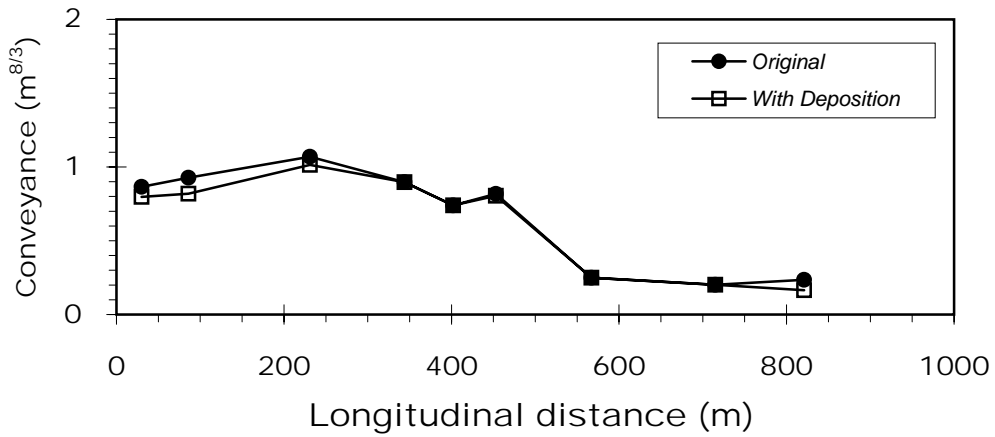
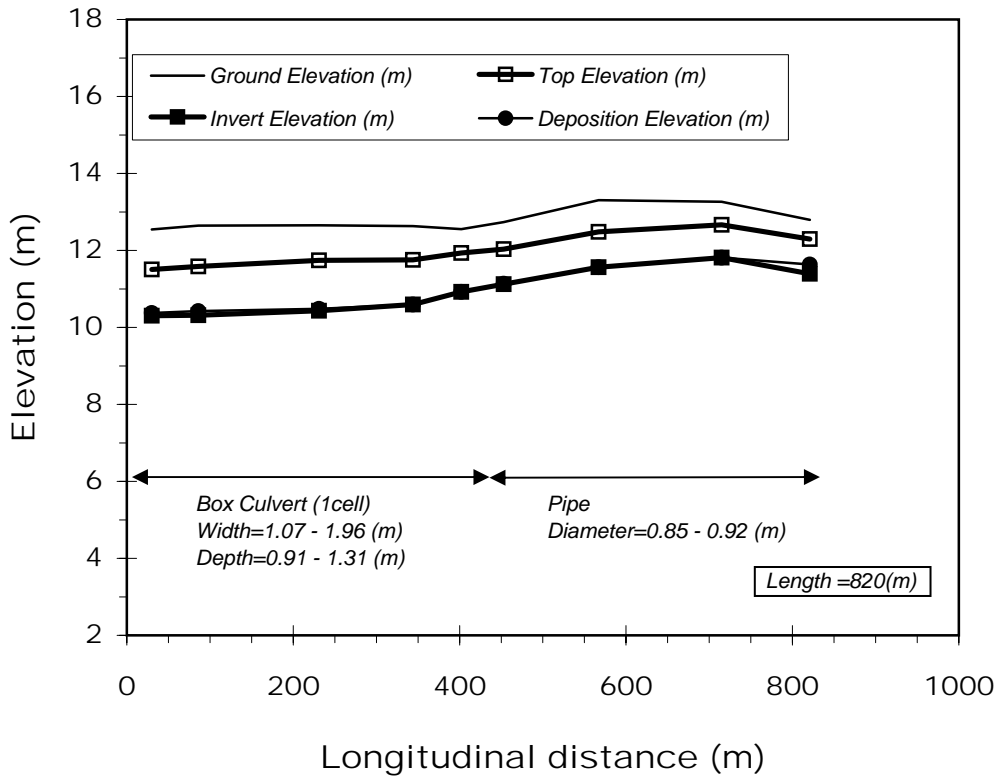
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

SD10A Faraday



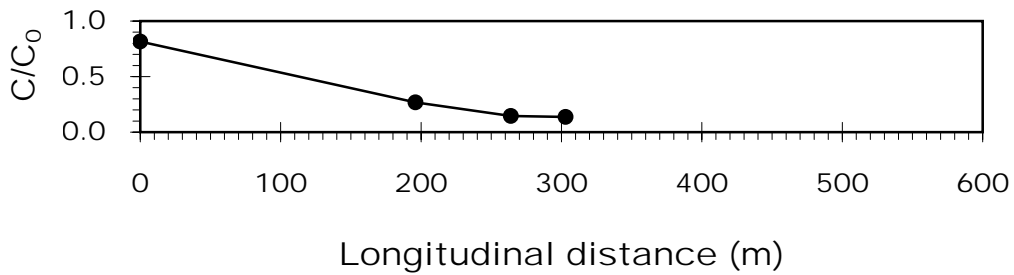
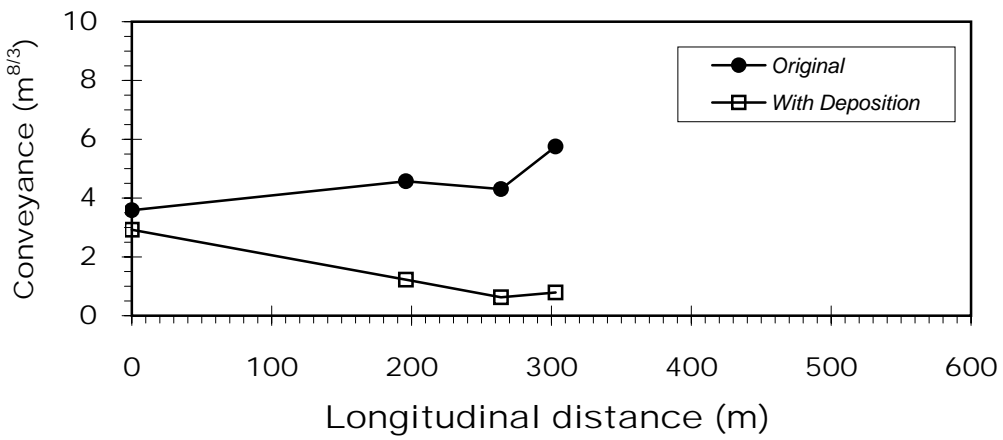
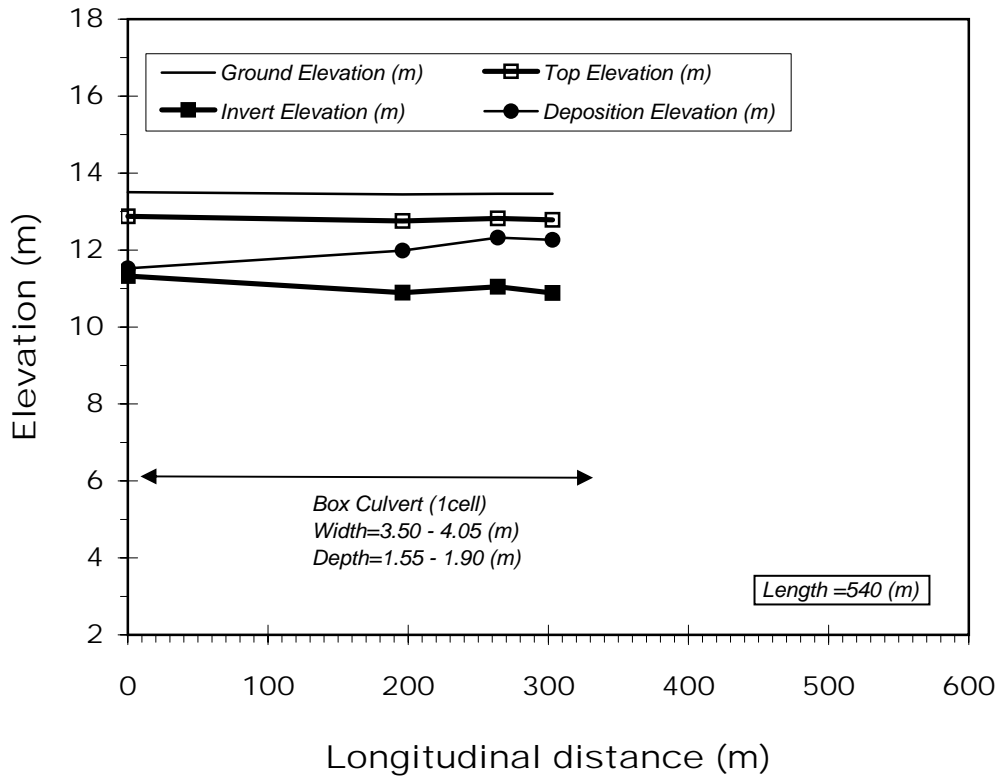
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

SD10B Faraday



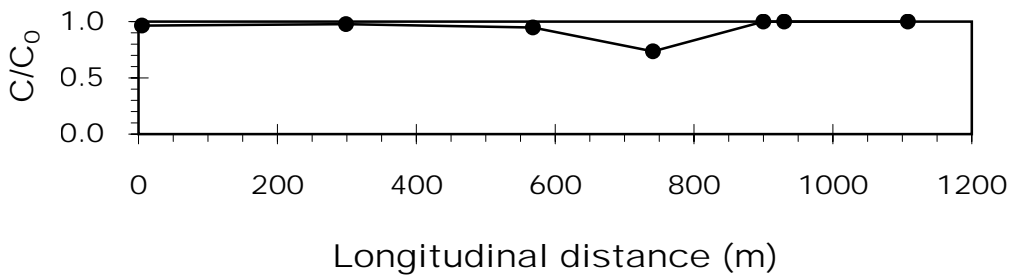
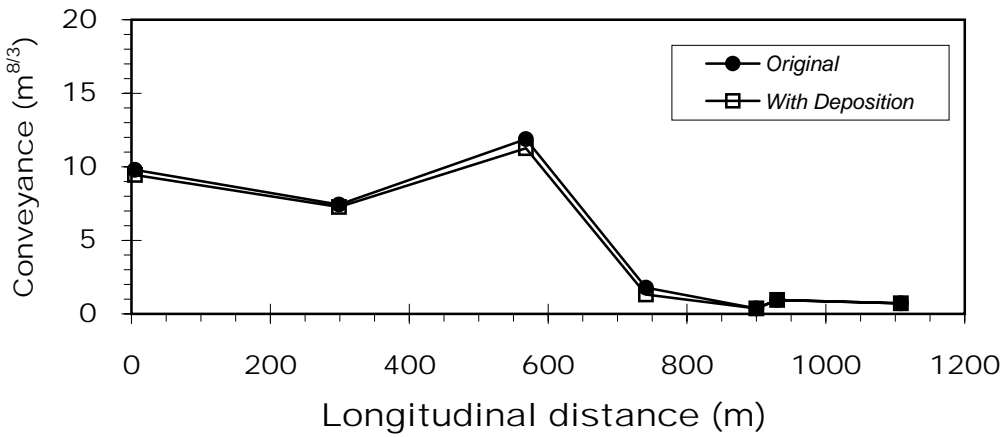
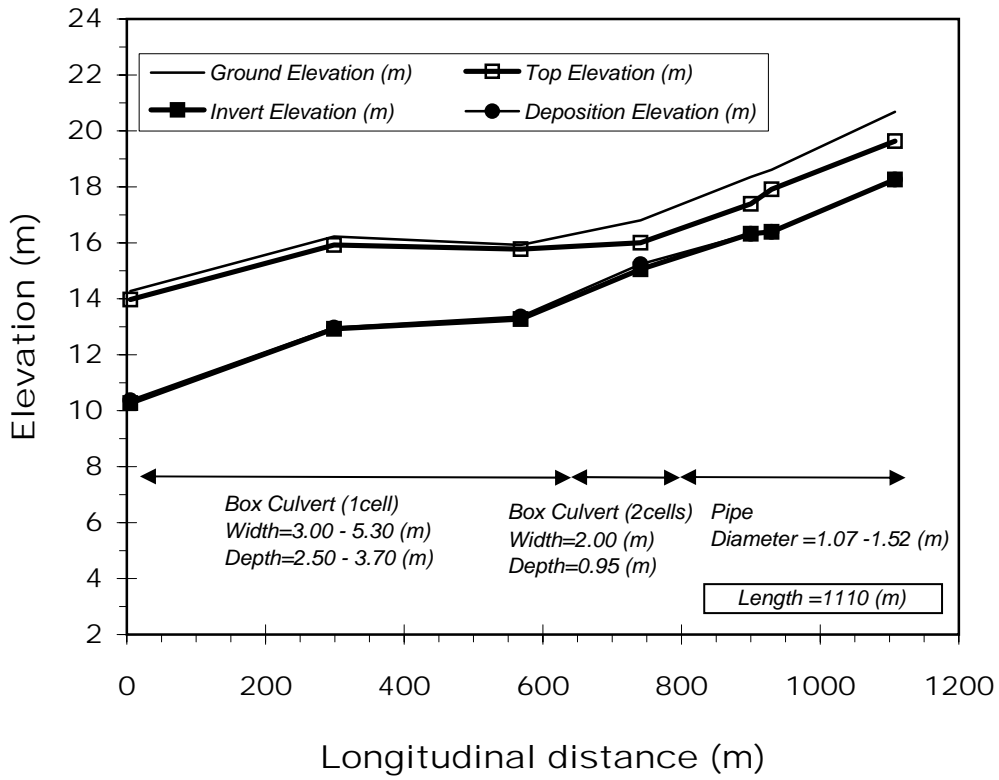
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

SD11 Pasong Tamo



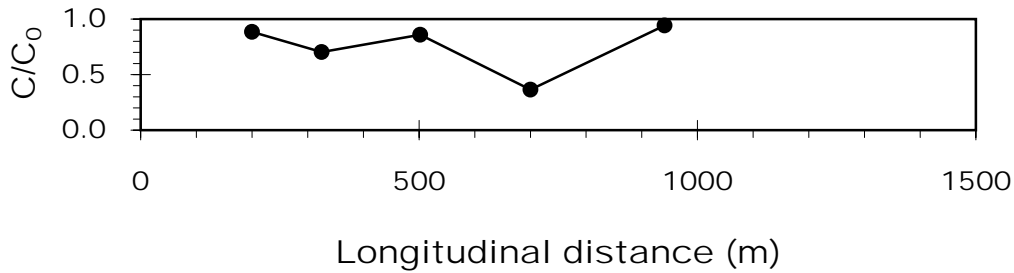
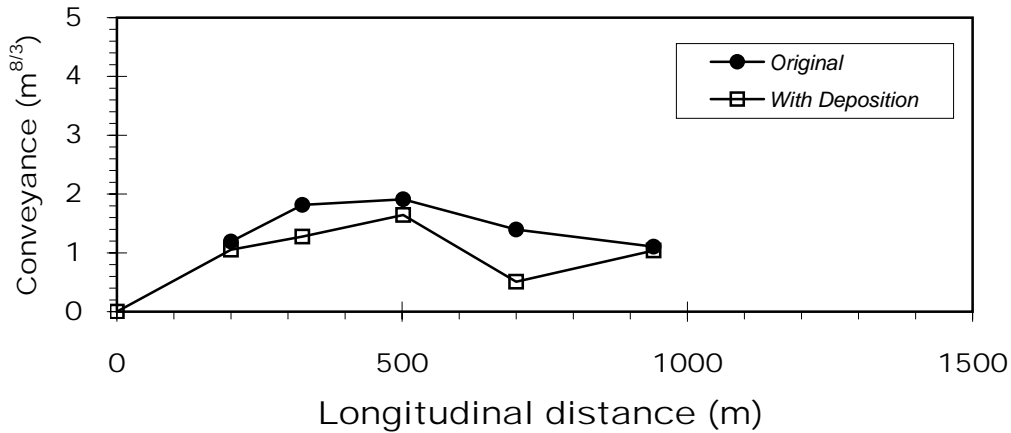
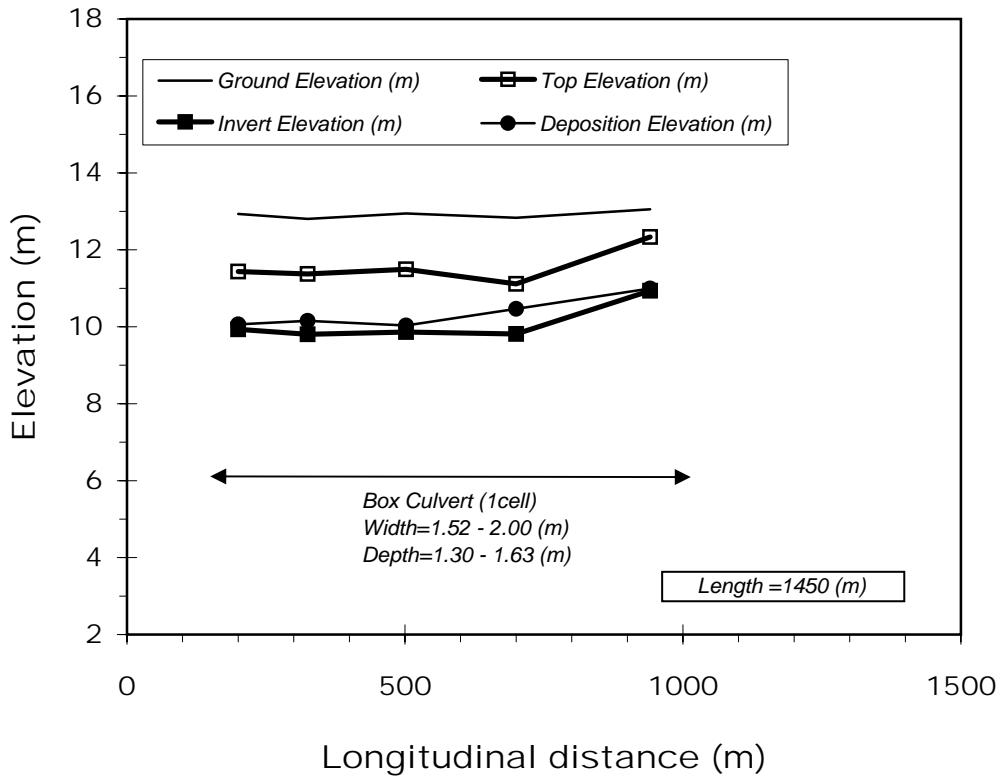
Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

SD12 SSH-Way



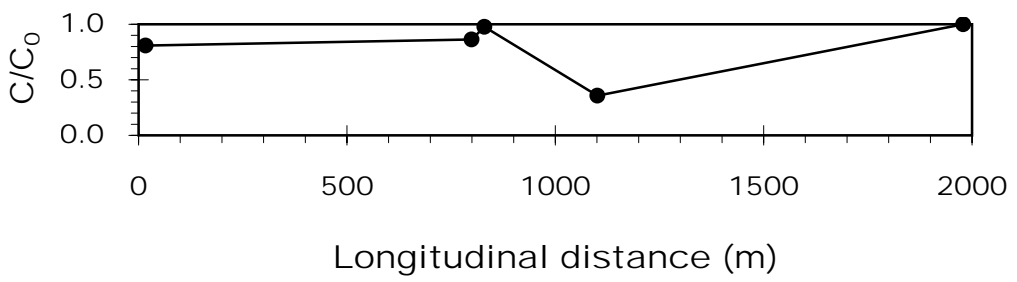
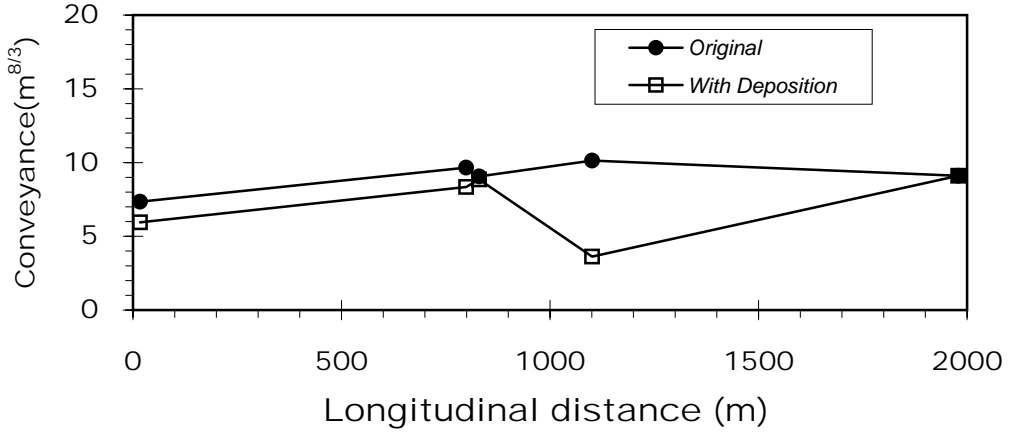
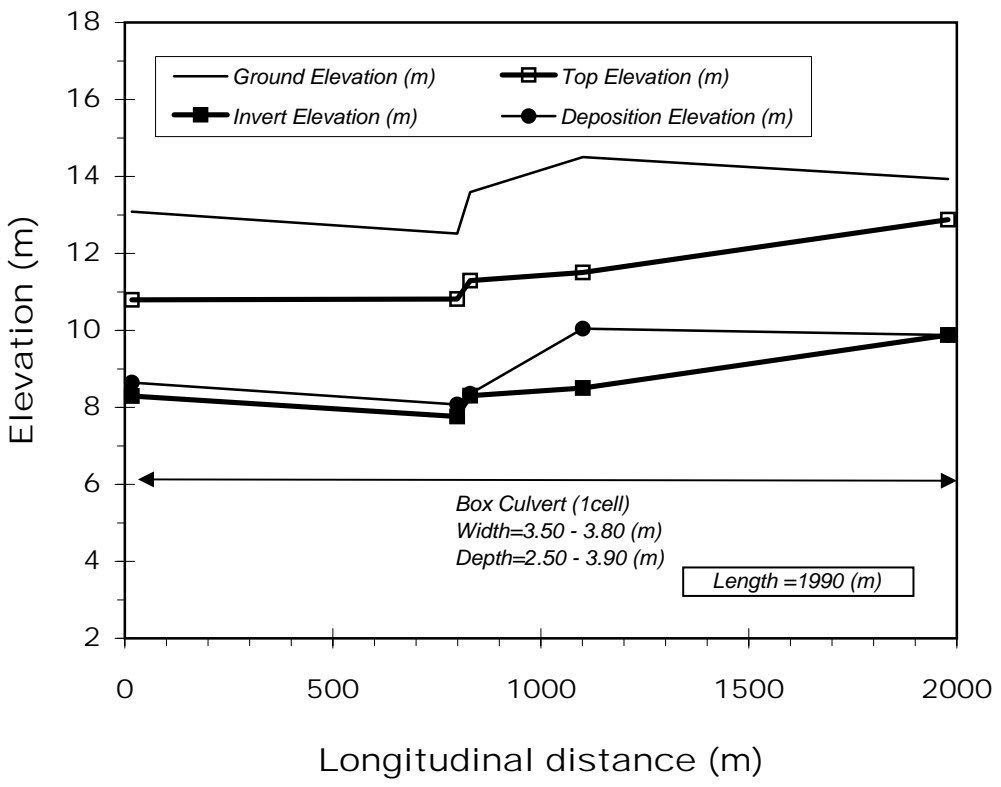
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD13 Vito-Cruz



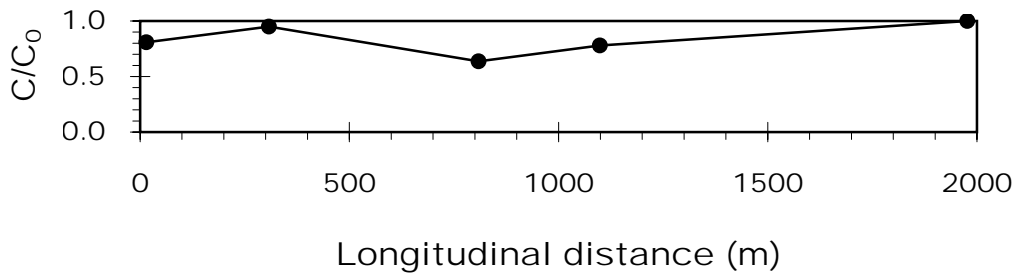
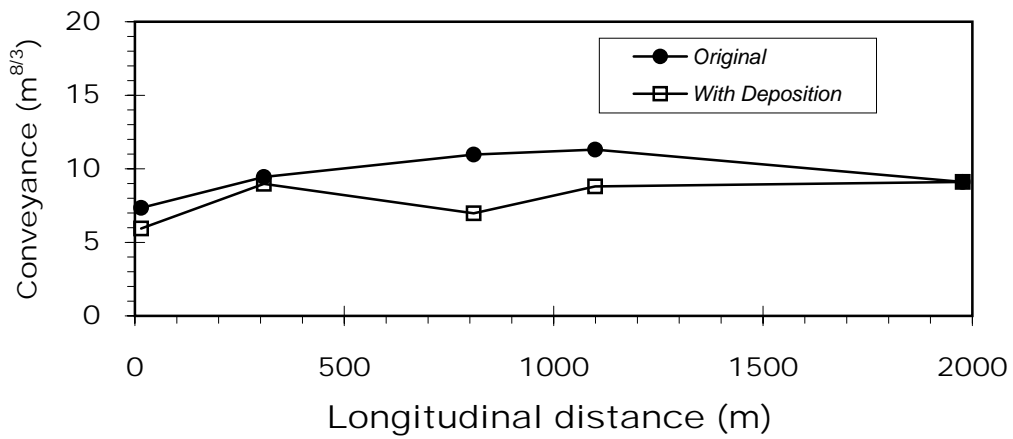
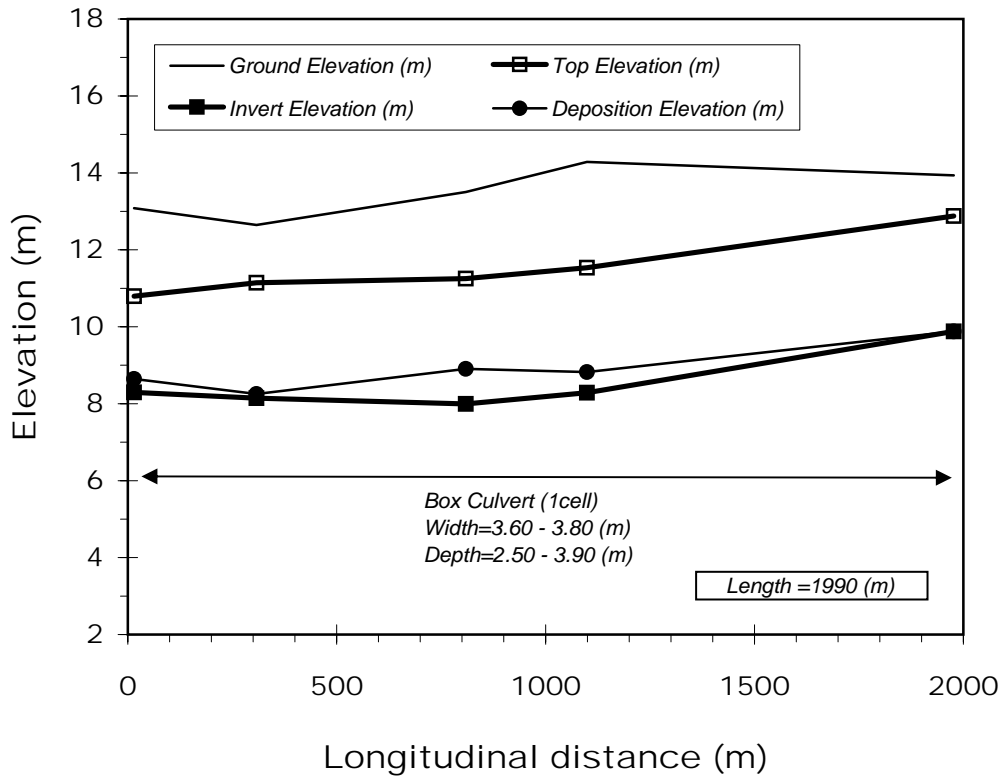
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD14A Buendia Outfall



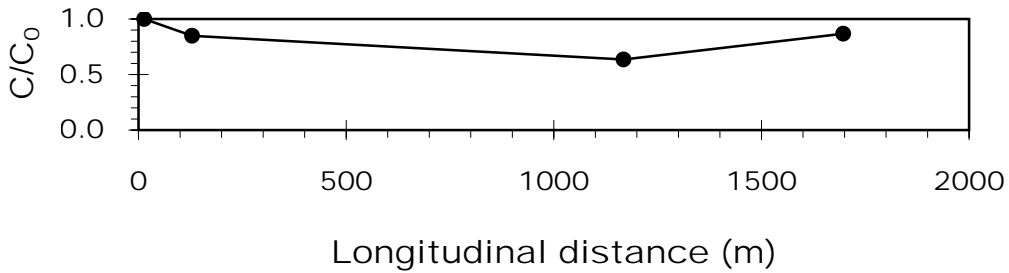
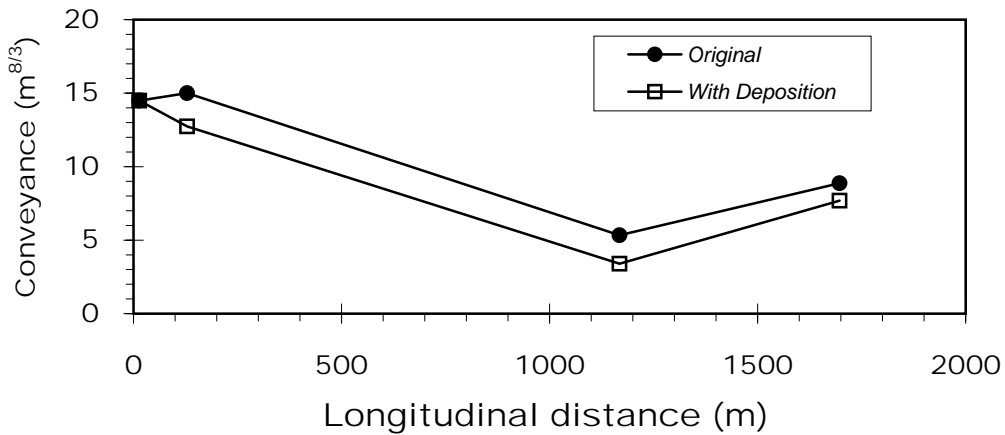
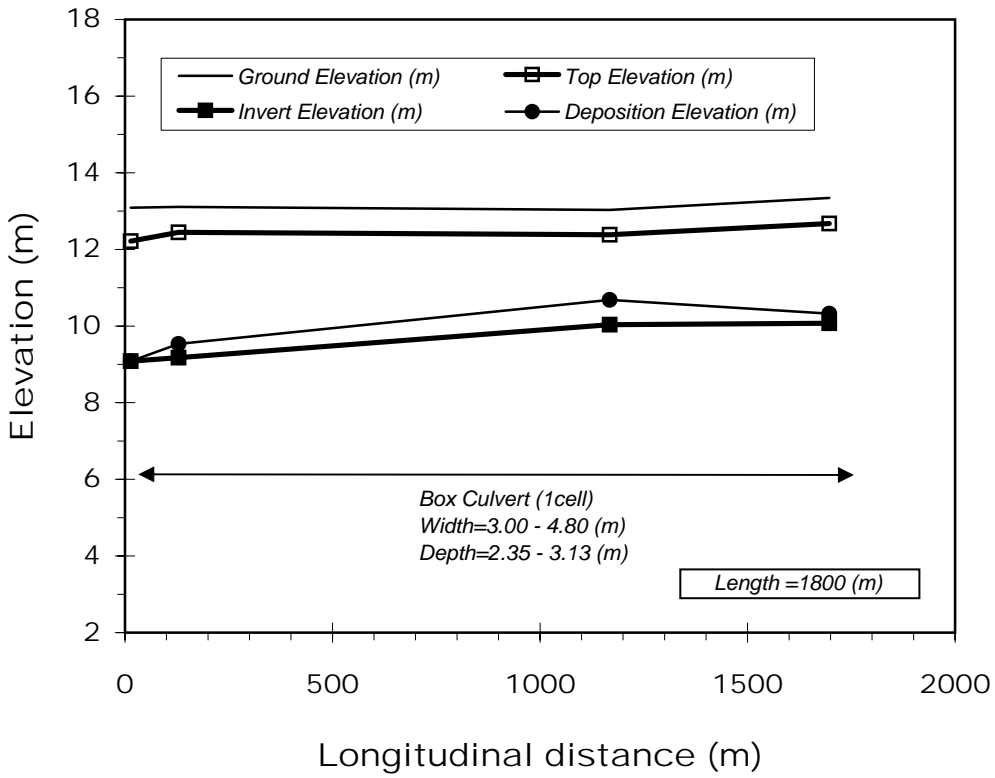
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD14B Buendia Outfall



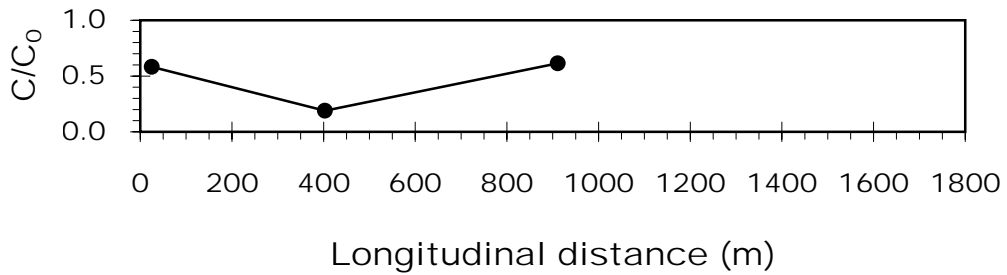
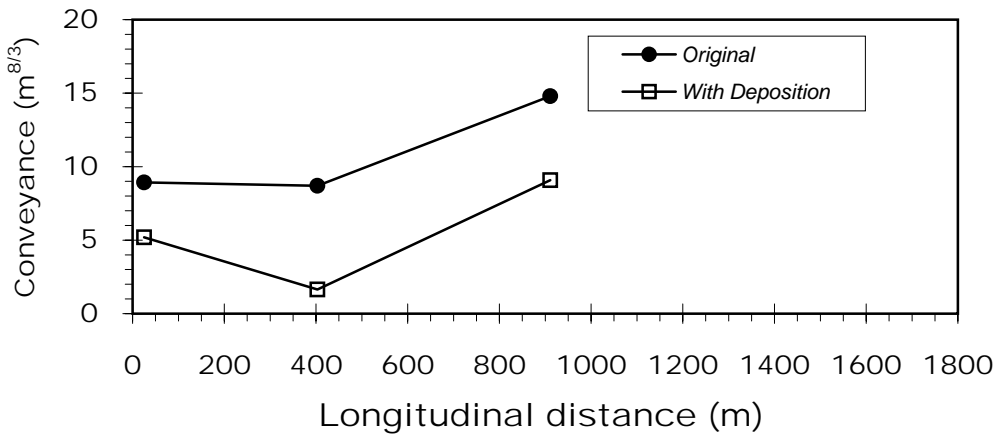
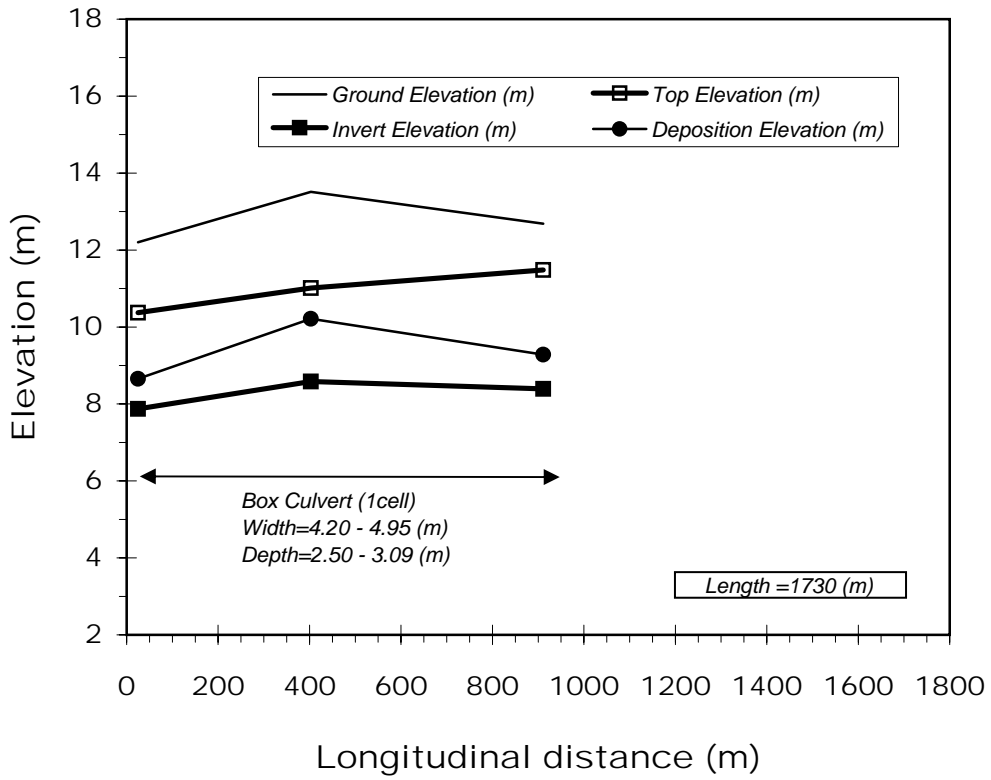
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD15 Libertad Outfall



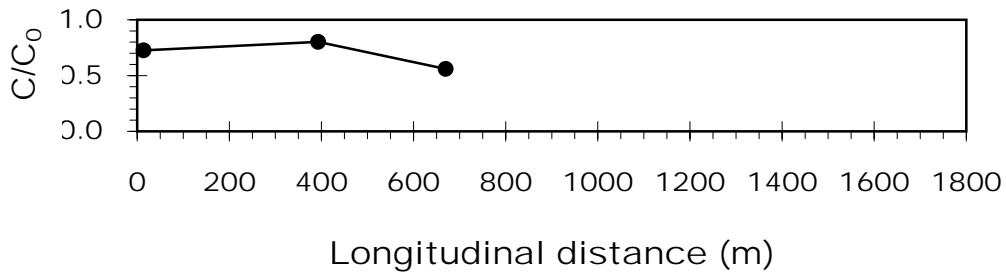
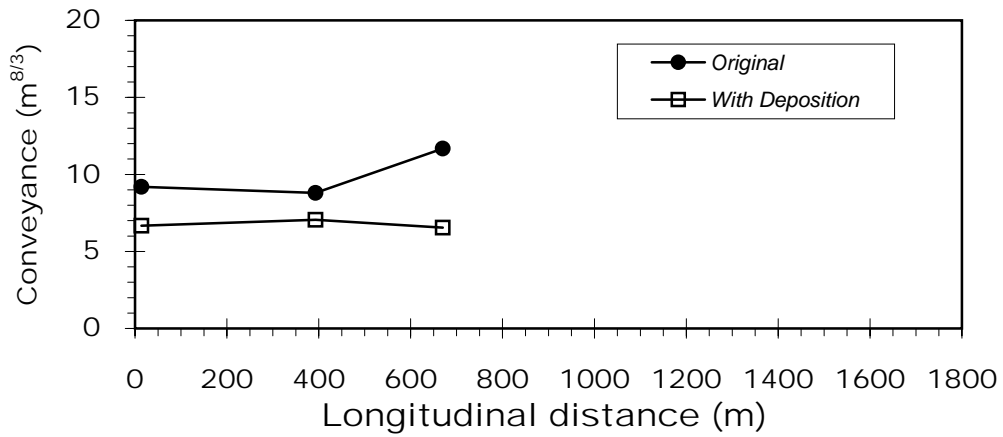
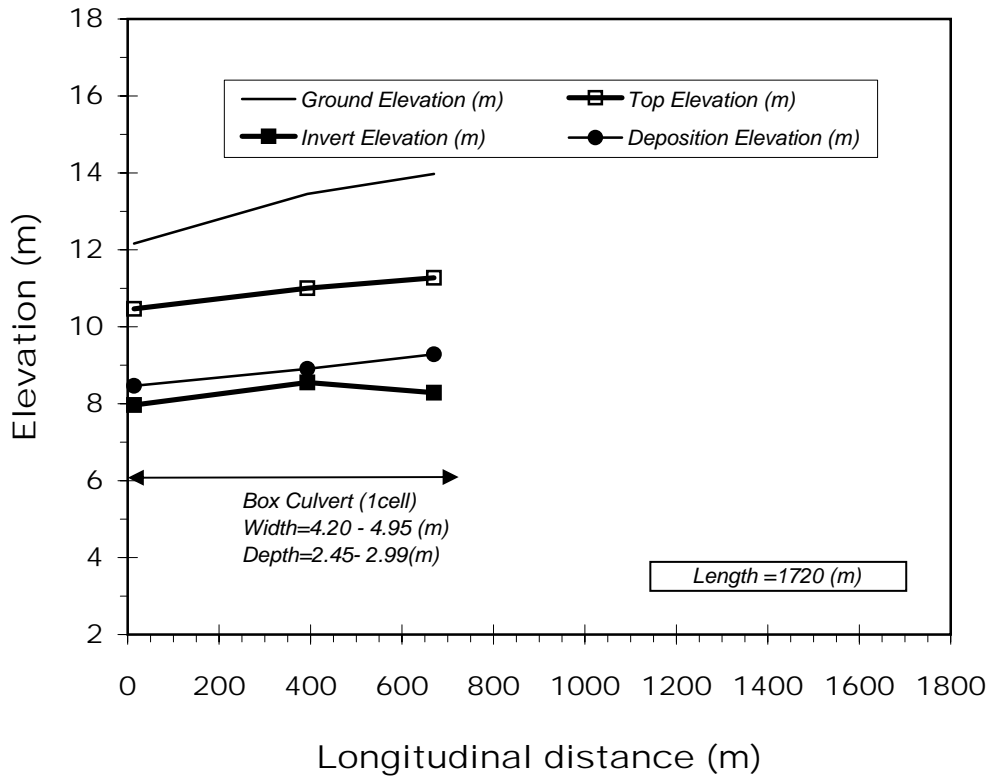
Note: C = Conveyance with deposition (m^{8/3}), C₀ = Conveyance without deposition (m^{8/3})

SD16A EDSA Outfall



Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

SD16B EDSA Outfall



Note: C = Conveyance with deposition ($m^{8/3}$), C_0 = Conveyance without deposition ($m^{8/3}$)

ANNEX E.2

CALCULATION OF PROBABLE PEAK DISCHARGE

DISCHARGE CALCULATION FOR EXISTING (NORTH)

Reach Property (Existing Drainage Scheme)

Block_ID	Reach_ID	Area (km2)	Areal Reduction Factor	C	Flow Length (m)	V (m/s)	Tf (s)	Ti (s)	TOC (hr)
N01	RNE01_02	0.322	1.00	0.819	1117	1.32	847	576	0.40
N01	RND07_01	0.215	1.00	0.755	654	1.66	394	658	0.29
N01	RND07_02	0.494	1.00	0.785	386	1.65	234	1984	0.62
N01	RND08_01	0.435	1.00	0.726	719	1.36	527	1118	0.46
N01	RND08_02	0.705	1.00	0.744	645	1.30	497	1496	0.55
N01	RND10_01	0.000	1.00	0.000	112	4.99	22	0	-
N01	RND11_01	0.000	1.00	0.000	366	1.14	321	0	-
N01	RNE08_01	0.268	1.00	0.738	689	1.56	442	776	0.34
N01	RNE09_01	0.246	1.00	0.750	365	0.94	388	666	0.29
N01	RNE10_01	0.176	1.00	0.775	525	1.00	524	450	0.27
N01	RND09_01	0.592	1.00	0.739	1368	0.76	1800	1250	0.85
N01	RND12_01	0.469	1.00	0.749	859	1.67	515	1092	0.45
N01	RNE11_01	0.037	1.00	0.704	0	0.50	0	918	0.26
N01	RND12_02	0.647	1.00	0.641	736	2.16	341	1108	0.40
N01	RNE07_03	0.189	1.00	0.742	340	0.55	618	534	0.32
N01	RNE07_02	0.069	1.00	0.705	429	0.68	628	320	0.26
N01	RNE04_03	0.830	1.00	0.791	1300	0.90	1445	980	0.67
N01	RNE05_01	0.796	1.00	0.800	938	1.23	760	1698	0.68
N01	RNE04_02	0.177	1.00	0.776	618	1.68	368	572	0.26
N01	RNE06_01	0.392	1.00	0.745	1300	1.37	950	518	0.41
N01	RNE07_01	0.334	1.00	0.759	1023	0.70	1451	392	0.51
N01	RND13_01	0.863	1.00	0.768	669	2.28	293	3071	0.93
N01	RNE04_01	0.296	1.00	0.795	520	1.57	330	1140	0.41
N02	RNE12_01	0.761	1.00	0.749	897	1.36	662	1696	0.66
N02	RNE14_02	0.505	1.00	0.716	900	1.45	619	758	0.38
N02	RNE13_01	0.100	1.00	0.709	382	0.84	456	474	0.26
N02	RND14_01	0.926	1.00	0.741	640	1.64	390	2531	0.81
N02	RNE17_01	0.283	1.00	0.732	680	1.47	462	832	0.36
N02	RNE16_01	0.042	1.00	0.762	340	0.91	376	246	0.17
N02	RNE14_01	0.354	1.00	0.741	722	0.94	767	542	0.36
N02	RNE15_01	0.056	1.00	0.741	486	0.50	972	946	0.53
N02	RND15_01	0.513	1.00	0.718	1146	0.92	1251	896	0.60
N02	RNE18_01	0.069	1.00	0.743	360	0.68	532	268	0.22
N02	RND16_01	0.369	1.00	0.688	905	1.22	743	816	0.43
N02	RND16_02	0.943	1.00	0.688	158	1.64	97	2437	0.70
N02	RND17_01	0.377	1.00	0.738	824	1.64	503	403	0.25
N02	RNE19_01	0.040	0.99	0.710	328	1.30	252	244	0.14
N02	RND18_01	0.238	1.00	0.743	212	1.00	212	705	0.25
N03	RNE20_01	1.162	1.00	0.710	1167	2.02	578	1990	0.71
N03	RND19_01	1.208	0.99	0.646	674	1.94	348	1458	0.50
N04	RNE01_01	0.136	1.00	0.601	835	0.99	847	1191	0.57
N04	RNE02_01	0.165	1.00	0.850	1832	1.20	1521	1278	0.78
N04	RNE03_01	3.019	0.98	0.751	2202	1.94	1135	4067	1.44
N04	RNE02_02	0.039	1.00	0.816	535	2.99	179	148	0.09
N04	RNE02_03	3.444	0.98	0.681	1913	2.23	858	3985	1.35
N04	RND05_01	1.057	0.99	0.474	1752	1.27	1382	1206	0.72
N04	RND05_02	0.983	1.00	0.704	1219	1.20	1014	1614	0.73
N02	RND06_01	0.579	1.00	0.664	630	1.72	366	1437	0.50
N04	RND04_01	0.494	1.00	0.789	511	1.65	309	800	0.31
N05	RND01_01	1.127	0.99	0.831	1157	1.00	1157	997	0.60
N05	RND02_01	0.618	1.00	0.850	873	1.75	499	629	0.31
N05	RND03_01	0.229	1.00	0.850	429	1.19	360	720	0.30

Contribution Matrix for Time of Flow (Existing Drainage Scheme)

Block ID	Reach ID	Tf (s)	Reach_ID	Tf (s)
N01	RNE01_02	1	RNE01_02	4024
N01	RNE07_01	0	RNE07_01	1418
N01	RND07_02	0	RND07_02	1418
N01	RND08_01	0	RND08_01	234
N01	RND08_02	0	RND08_02	1024
N01	RNE03_01	0	RNE03_01	497
N01	RNE03_02	0	RNE03_02	3154
N01	RNE03_03	0	RNE03_03	2712
N01	RNE03_04	0	RNE03_04	2324
N01	RNE03_05	0	RNE03_05	1800
N01	RNE03_06	0	RNE03_06	856
N01	RNE03_07	0	RNE03_07	341
N01	RNE03_08	0	RNE03_08	618
N01	RNE03_09	0	RNE03_09	628
N01	RNE03_10	0	RNE03_10	3177
N01	RNE03_11	0	RNE03_11	2871
N01	RNE03_12	0	RNE03_12	2112
N01	RNE03_13	0	RNE03_13	950
N01	RNE03_14	0	RNE03_14	1744
N01	RNE03_15	0	RNE03_15	293
N01	RNE03_16	0	RNE03_16	330
N01	RNE03_17	0	RNE03_17	1052
N02	RNE14_02	0	RNE14_02	619
N02	RNE13_01	0	RNE13_01	456
N02	RNE14_01	0	RNE14_01	390
N02	RNE17_01	0	RNE17_01	2553
N02	RNE16_01	0	RNE16_01	1142
N02	RNE14_01	0	RNE14_01	767
N02	RNE15_01	0	RNE15_01	2081
N02	RND16_01	0	RND16_01	840
N02	RND16_02	0	RND16_02	97
N02	RND17_01	0	RND17_01	503
N02	RNE20_01	0	RNE20_01	212
N03	RNE20_01	0	RNE20_01	926
N03	RND19_01	0	RND19_01	346
N04	RNE02_01	1	RNE02_01	4646
N04	RNE02_02	0	RNE02_02	2358
N04	RNE02_03	0	RNE02_03	1135
N04	RNE02_04	0	RNE02_04	1037
N04	RNE02_05	0	RNE02_05	858
N04	RNE05_01	0	RNE05_01	2762
N04	RNE05_02	0	RNE05_02	1379
N04	RNE05_03	0	RNE05_03	366
N04	RNE05_04	0	RNE05_04	309
N05	RND01_01	0	RND01_01	1157
N05	RND02_01	0	RND02_01	499
N05	RND03_01	0	RND03_01	360
N05	RND04_01	0	RND04_01	309
N05	RND05_01	0	RND05_01	1014
N05	RND06_01	0	RND06_01	366
N05	RND07_01	0	RND07_01	394
N05	RND08_01	0	RND08_01	527
N05	RND08_02	0	RND08_02	497
N05	RND10_01	0	RND10_01	22
N05	RND11_01	0	RND11_01	321
N05	RNE08_01	0	RNE08_01	442
N05	RNE09_01	0	RNE09_01	388
N05	RNE10_01	0	RNE10_01	524
N05	RND09_01	1	RND09_01	1800
N05	RND12_01	0	RND12_01	515
N05	RNE11_01	0	RNE11_01	0
N05	RND12_02	0	RND12_02	341
N05	RNE07_03	0	RNE07_03	618
N05	RNE07_02	0	RNE07_02	628
N05	RNE04_03	0	RNE04_03	1445
N05	RNE05_01	0	RNE05_01	760
N05	RNE04_02	0	RNE04_02	368
N05	RNE06_01	0	RNE06_01	950
N05	RNE07_01	0	RNE07_01	1451
N05	RND13_01	0	RND13_01	293
N05	RNE04_01	0	RNE04_01	330
N05	RNE12_01	0	RNE12_01	662
N05	RNE14_02	0	RNE14_02	619
N05	RNE13_01	0	RNE13_01	456
N05	RND14_01	0	RND14_01	390
N05	RNE17_01	0	RNE17_01	462
N05	RNE16_01	0	RNE16_01	376
N05	RNE14_01	0	RNE14_01	767
N05	RNE15_01	0	RNE15_01	972
N05	RNE15_01	0	RNE15_01	1251
N05	RNE18_01	0	RNE18_01	532
N05	RND16_01	0	RND16_01	743
N05	RND16_02	0	RND16_02	97
N05	RND17_01	0	RND17_01	503
N05	RNE19_01	0	RNE19_01	252
N05	RND18_01	0	RND18_01	212
N05	RNE20_01	0	RNE20_01	578
N05	RND19_01	0	RND19_01	348
N05	RNE01_01	0	RNE01_01	847
N05	RNE02_01	0	RNE02_01	1521
N05	RNE03_01	0	RNE03_01	1135
N05	RNE02_02	0	RNE02_02	179
N05	RNE02_03	0	RNE02_03	858
N05	RND05_01	0	RND05_01	1382
N05	RND05_02	0	RND05_02	1014
N05	RND06_01	0	RND06_01	366
N05	RND04_01	0	RND04_01	309
N05	RND01_01	0	RND01_01	1157
N05	RND02_01	0	RND02_01	499
N05	RND03_01	0	RND03_01	360
N05	RND04_01	0	RND04_01	309
N05	RND05_01	0	RND05_01	1014
N05	RND06_01	0	RND06_01	366
N05	RND07_01	0	RND07_01	394
N05	RND08_01	0	RND08_01	527
N05	RND08_02	0	RND08_02	497
N05	RND10_01	0	RND10_01	22
N05	RND11_01	0	RND11_01	321
N05	RNE08_01	0	RNE08_01	442
N05	RNE09_01	0	RNE09_01	388
N05	RNE10_01	0	RNE10_01	524
N05	RND09_01	1	RND09_01	1800
N05	RND12_01	0	RND12_01	515
N05	RNE11_01	0	RNE11_01	0
N05	RND12_02	0	RND12_02	341
N05	RNE07_03	0	RNE07_03	618
N05	RNE07_02	0	RNE07_02	628
N05	RNE04_03	0	RNE04_03	1445
N05	RNE05_01	0	RNE05_01	760
N05	RNE04_02	0	RNE04_02	368
N05	RNE06_01	0	RNE06_01	950
N05	RNE07_01	0	RNE07_01	1451
N05	RND13_01	0	RND13_01	293
N05	RNE04_01	0	RNE04_01	330
N05	RNE12_01	0	RNE12_01	662
N05	RNE14_02	0	RNE14_02	619
N05	RNE13_01	0	RNE13_01	456
N05	RND14_01	0	RND14_01	390
N05	RNE17_01	0	RNE17_01	462
N05	RNE16_01	0	RNE16_01	376
N05	RNE14_01	0	RNE14_01	767
N05	RNE15_01	0	RNE15_01	972
N05	RNE15_01	0	RNE15_01	1251
N05	RNE18_01	0	RNE18_01	532
N05	RND16_01	0	RND16_01	743
N05	RND16_02	0	RND16_02	97
N05	RND17_01	0	RND17_01	503
N05	RNE19_01	0	RNE19_01	252
N05	RND18_01	0	RND18_01	212
N05	RNE20_01	0	RNE20_01	578
N05	RND19_01	0	RND19_01	348
N05	RNE01_01	0	RNE01_01	847
N05	RNE02_01	0	RNE02_01	1521
N05	RNE03_01	0	RNE03_01	1135
N05	RNE02_02	0	RNE02_02	179
N05	RNE02_03	0	RNE02_03	858
N05	RND05_01	0	RND05_01	1382
N05	RND05_02	0	RND05_02	1014
N05	RND06_01	0	RND06_01	366
N05	RND04_01	0	RND04_01	309
N05	RND01_01	0	RND01_01	1157
N05	RND02_01	0	RND02_01	499
N05	RND03_01	0	RND03_01	360

Contribution Matrix for Time of Inlet (Existing Drainage Scheme)

Block_ID	Reach_ID	Tl (s)	Reach_ID	Tl (s)
N01	RNE01_02	0	RND03_01	720
N01	RNE07_01	0	RND02_01	629
N01	RND07_02	0	RND01_01	997
N01	RND08_01	0	RND04_01	800
N01	RND08_02	1	RND06_01	1437
N01	RNE08_01	0	RND05_02	1614
N01	RNE09_01	0	RND05_01	1206
N01	RNE10_01	1	RNE02_03	3985
N01	RND09_01	0	RNE02_02	148
N01	RND12_01	0	RNE03_01	4067
N01	RND12_02	1	RNE02_01	1278
N01	RNE07_03	534	RNE01_01	1191
N01	RNE07_02	0	RND19_01	1458
N01	RNE07_03	1	RNE20_01	1990
N01	RNE04_03	0	RND18_01	705
N01	RNE05_03	0	RNE19_01	244
N01	RNE04_02	0	RND17_01	403
N01	RNE06_01	0	RND16_02	2437
N01	RNE06_02	0	RND16_01	816
N01	RNE07_01	0	RNE18_01	268
N01	RNE08_01	0	RND15_01	896
N01	RND11_01	0	RNE15_01	946
N01	RND10_01	0	RNE14_01	542
N01	RND08_02	1	RNE16_01	246
N01	RND08_01	0	RNE17_01	832
N01	RND07_02	0	RND14_01	2531
N01	RND07_01	0	RNE13_01	474
N01	RNE01_02	576	RNE14_02	758
N01	RNE01_01	0	RNE12_01	1696
N01	RNE02_01	0	RNE04_01	1140
N01	RNE02_02	0	RND13_01	3071
N01	RNE02_03	0	RNE07_01	392
N01	RNE03_01	0	RNE06_01	518
N01	RNE03_02	0	RNE04_02	572
N01	RNE03_03	0	RNE05_01	1698
N01	RNE04_01	0	RNE04_03	980
N01	RNE04_02	0	RNE07_02	320
N01	RNE04_03	0	RNE07_03	534
N01	RNE05_01	0	RND12_02	1108
N01	RNE05_02	0	RNE11_01	918
N01	RNE05_03	0	RND12_01	1092
N01	RNE06_01	0	RND09_01	1250
N01	RNE06_02	0	RNE10_01	450
N01	RNE06_03	0	RNE09_01	666
N01	RNE07_01	0	RNE08_01	776
N01	RNE07_02	0	RND11_01	0
N01	RNE07_03	0	RND10_01	0
N01	RNE08_01	0	RND08_02	1496
N01	RNE08_02	0	RND08_01	1118
N01	RNE08_03	0	RND07_02	1984
N01	RNE09_01	0	RND07_01	658
N01	RNE09_02	0	RNE01_02	576
N01	RNE09_03	0		
N01	RNE10_01	1		
N01	RNE10_02	0		
N01	RNE10_03	0		
N01	RNE11_01	0		
N01	RNE11_02	0		
N01	RNE11_03	0		
N01	RNE12_01	0		
N01	RNE12_02	0		
N01	RNE12_03	0		
N01	RNE13_01	0		
N01	RNE13_02	0		
N01	RNE13_03	0		
N01	RNE14_01	0		
N01	RNE14_02	0		
N01	RNE14_03	0		
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N01	RNE15_02	0		
N01	RNE15_03	0		
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N01	RNE16_02	0		
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N01	RNE17_03	0		
N01	RNE18_01	0		
N01	RNE18_02	0		
N01	RNE18_03	0		
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N01	RNE19_02	0		
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N01	RNE20_02	0		
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N01	RNE89_02	0		
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N01	RNE95_01	0		
N01	RNE95_02	0		
N01	RNE95_03	0		
N01	RNE96_01	0		
N01	RNE96_02	0		
N01	RNE96_03	0		
N01	RNE97_01	0		

DISCHARGE CALCULATION FOR EXISTING (SOUTH)

Reach Property (Existing Drainage Scheme)

Block_ID	Reach_ID	Area (km2)	Areal Reduction Factor	C	Flow Length (m)	V (m/s)	Tf (s)	Ti (s)	TOC (hr)
S01	RSE09_01	0.283	0.96	0.677	412	0.96	429	1372	0.50
S01	RSE18_01	2.503	0.98	0.680	2157	2.14	1008	2322	0.93
S01	RSE18_02	2.935	0.98	0.646	4034	1.75	2309	734	0.85
S01	RSE19_01	5.401	1.00	0.565	4249	1.50	2842	122	0.82
S01	RSE09_02	0.439	1.00	0.716	932	0.84	1106	944	0.57
S01	RSE09_03	0.660	1.00	0.769	612	0.85	724	2156	0.80
S01	RSE16_01	0.641	1.00	0.790	751	2.83	266	1706	0.55
S01	RSD12_01	0.715	1.00	0.726	1108	3.87	287	1841	0.59
S01	RSE16_02	1.207	0.99	0.694	1008	2.78	363	2161	0.70
S01	RSE17_01	1.542	0.99	0.754	1733	1.13	1538	4000	1.54
S01	RSE13_01	0.724	1.00	0.727	995	1.53	651	601	0.35
S01	RSD14_01	1.140	0.99	0.760	1992	1.49	1338	1144	0.69
S01	RSE09_06	0.114	1.00	0.692	538	0.73	732	424	0.32
S01	RSE09_07	0.113	1.00	0.709	625	0.63	993	362	0.38
S01	RSD09_01	0.221	1.00	0.707	701	1.32	532	630	0.32
S01	RSD09_02	0.786	1.00	0.726	160	0.86	185	2600	0.77
S01	RSE12_01	0.323	1.00	0.703	761	1.50	508	848	0.38
S01	RSE11_01	0.042	1.00	0.850	736	0.55	1335	114	0.40
S01	RSE11_02	0.136	1.00	0.799	310	1.08	288	878	0.32
S01	RSE12_02	0.284	1.00	0.741	510	0.41	1254	176	0.40
S01	RSD11_01	0.488	1.00	0.683	543	0.50	1087	1524	0.73
S01	RSE09_05	0.186	1.00	0.775	365	0.79	464	484	0.26
S01	RSD10_01	0.320	1.00	0.722	821	1.15	716	778	0.41
S01	RSE11_03	0.499	1.00	0.797	1610	1.22	1320	620	0.54
S01	RSE15_01	0.089	1.00	0.762	0	0.50	0	1500	0.42
S01	RSD15_01	1.006	0.99	0.775	1796	1.40	1288	1120	0.67
S01	RSE09_04	0.192	1.00	0.781	1101	0.97	1133	350	0.41
S01	RSD17_01	0.158	1.00	0.790	434	1.00	434	730	0.32
S01	RSE21_01	0.000	1.00	0.000	897	0.50	1793	0	-
S01	RSD16_01	1.381	0.99	0.759	1731	1.36	1272	1596	0.80
S01	RSD13_01	0.357	1.00	0.750	1047	1.28	820	682	0.42
S01	RSD13_02	0.528	1.00	0.706	150	1.28	118	2622	0.76
S01	RSE20_01	0.549	1.00	0.639	1196	1.04	1152	918	0.58
S02	RSE03_01	0.939	1.00	0.668	1095	0.60	1811	1899	1.03
S02	RSE01_01	0.000	1.00	0.000	760	0.50	1520	0	-
S03	RSE06_01	0.037	1.00	0.732	307	2.70	114	240	0.10
S03	RSE04_01	0.186	1.00	0.581	0	0.50	0	1743	0.48
S03	RSE07_01	0.299	1.00	0.725	1081	1.51	717	554	0.35
S03	RSE06_02	1.005	0.99	0.784	1499	1.33	1125	1340	0.68
S03	RSD18_01	0.000	1.00	0.000	169	1.00	169	0	-
S03	RSE02_01	0.213	1.00	0.682	0	0.50	0	0	-
S03	RSE08_01	0.914	1.00	0.600	854	1.84	465	2140	0.72
S03	RSE08_02	0.233	1.00	0.736	719	1.84	390	648	0.29
S03	RSE08_04	0.868	1.00	0.700	290	0.84	345	880	0.34
S03	RSE08_03	0.239	1.00	0.747	354	0.83	426	1354	0.49
S03	RSE09_09	0.668	1.00	0.711	1246	1.04	1200	1800	0.83
S03	RSD07_01	0.226	1.00	0.732	414	0.63	654	1300	0.54
S03	RSE06_03	0.084	1.00	0.830	487	0.81	597	348	0.26
S03	RSE09_08	0.470	1.00	0.748	1339	0.61	2191	702	0.80
S03	RSE10_01	0.352	1.00	0.702	922	0.71	1295	1260	0.71
S03	RSD08_01	0.323	1.00	0.715	518	1.12	462	1600	0.57
S04	RSE05_01	1.481	0.99	0.628	1450	1.61	901	2132	0.84
S04	RSD03_01	0.088	1.00	0.700	133	1.00	133	899	0.29
S05	RSD04_01	1.002	0.99	0.657	626	1.61	388	2122	0.70
S05	RSD05_01	0.649	1.00	0.715	393	2.67	147	1785	0.54
S05	RSD06_01	0.000	1.00	0.000	1218	2.62	465	0	-
S05	RSE14_01	2.657	0.98	0.604	2773	2.58	1076	1800	0.80
S06	RSD01_01	0.932	1.00	0.806	1160	1.36	853	843	0.47
S06	RSD02_01	0.924	1.00	0.792	1347	1.19	1132	725	0.52
S06	RSE22_01	0.000	1.00	0.000	716	0.50	1433	0	-

DISCHARGE CALCULATION FOR PLAN (NORTH)

Reach Property (Planned Drainage Scheme)

Block_ID	Reach_ID	Area (km2)	Areal Reduction Factor	C	Flow Length (m)	V (m/s)	Tf (s)	Ti (s)	TOC (hr)
N01	RNE01_02	0.322	1.00	0.819	1117	1.32	847	576	0.40
N01	RND07_01	0.215	1.00	0.755	654	1.66	394	658	0.29
N01	RND07_02	0.203	1.00	0.785	386	1.65	234	1000	0.34
N01	RND08_01	0.435	1.00	0.726	719	1.36	527	1118	0.46
N01	RND08_02	0.705	1.00	0.744	645	1.30	497	1496	0.55
N01	RND10_01	0.000	1.00	0.000	112	4.99	22	0	-
N01	RND11_01	0.000	1.00	0.000	366	1.14	321	0	-
N01	RNE08_01	0.268	1.00	0.738	689	1.56	442	776	0.34
N01	RNE09_01	0.246	1.00	0.750	365	0.94	388	666	0.29
N01	RNE10_01	0.176	1.00	0.775	525	1.00	524	450	0.27
N01	RND09_01	0.592	1.00	0.739	1368	0.76	1800	1250	0.85
N01	RND12_01	0.469	1.00	0.749	859	1.67	515	1092	0.45
N01	RNE11_01	0.037	1.00	0.704	0	0.50	0	918	0.26
N01	RND12_02	0.647	1.00	0.641	736	2.16	341	1108	0.40
N01	RNE07_03	0.189	1.00	0.742	340	0.55	618	534	0.32
N01	RNE07_02	0.069	1.00	0.705	429	0.68	628	320	0.26
N01	RNE04_03	0.830	1.00	0.791	1300	0.90	1445	980	0.67
N01	RNE05_01	0.796	1.00	0.800	938	1.23	760	1698	0.68
N01	RNE04_02	0.177	1.00	0.776	618	1.68	368	572	0.26
N01	RNE06_01	0.392	1.00	0.745	1300	1.37	950	518	0.41
N01	RNE07_01	0.334	1.00	0.759	1023	0.70	1451	392	0.51
N01	RND13_01	0.863	1.00	0.768	669	2.28	293	3071	0.93
N01	RNE04_01	0.296	1.00	0.795	520	1.57	330	1140	0.41
N02	RNE12_01	0.761	1.00	0.749	897	1.36	662	1696	0.66
N02	RNE14_02	0.505	1.00	0.716	900	1.45	619	758	0.38
N02	RNE13_01	0.100	1.00	0.709	382	0.84	456	474	0.26
N02	RND14_01	0.926	1.00	0.741	640	1.64	390	2531	0.81
N02	RNE17_01	0.283	1.00	0.732	680	1.47	462	832	0.36
N02	RNE16_01	0.042	1.00	0.762	340	0.91	376	246	0.17
N02	RNE14_01	0.354	1.00	0.741	722	0.94	767	542	0.36
N02	RNE15_01	0.056	1.00	0.741	486	0.50	972	946	0.53
N02	RND15_01	0.513	1.00	0.718	1146	0.92	1251	896	0.60
N02	RNE18_01	0.069	1.00	0.743	360	0.68	532	268	0.22
N02	RND16_01	0.369	1.00	0.688	905	1.22	743	816	0.43
N02	RND16_02	0.943	1.00	0.688	158	1.64	97	2437	0.70
N02	RND17_01	0.377	1.00	0.738	824	1.64	503	403	0.25
N02	RNE19_01	0.040	0.99	0.710	328	1.30	252	244	0.14
N02	RND18_01	0.238	1.00	0.743	560	1.00	560	400	0.27
N03	RNE20_01	1.162	1.00	0.710	1167	2.02	578	1990	0.71
N03	RND19_01	1.208	0.99	0.646	674	1.94	348	1458	0.50
N04	RNE01_01	0.136	1.00	0.601	835	0.99	847	1191	0.57
N04	RNE02_01	0.165	1.00	0.850	1832	1.20	1521	1278	0.78
N04	RNE03_01	3.019	0.98	0.751	2202	1.94	1135	4067	1.44
N04	RNE02_02	0.190	1.00	0.816	535	2.99	179	148	0.09
N04	RNE02_03	3.444	0.98	0.681	1913	2.23	858	3985	1.35
N04	RND05_01	1.051	0.99	0.474	1752	1.27	1382	1206	0.72
N04	RND05_02	0.946	1.00	0.704	400	1.20	333	2200	0.70
N02	RND06_01	0.617	1.00	0.664	630	1.72	366	1437	0.50
N04	RND04_01	0.494	1.00	0.789	511	1.65	309	800	0.31
N05	RND01_01	1.127	0.99	0.831	1157	1.00	1157	997	0.60
N05	RND02_01	0.618	1.00	0.850	873	1.75	499	629	0.31
N05	RND03_01	0.229	1.00	0.850	429	1.19	360	720	0.30
N04	RND05N_01	0.146	1.00	0.785	580	1.00	580	510	0.30

DISCHARGE CALCULATION FOR PLAN (SOUTH)

Reach Property (Planned Drainage Scheme)

Block_ID	Reach_ID	Area (km2)	Areal Reduction Factor	C	Flow Length (m)	V (m/s)	Tf (s)	Ti (s)	TOC (hr)
S01	RSE09_01	0.283	0.96	0.677	412	0.96	429	1372	0.50
S01	RSE18_01	2.503	0.98	0.680	2157	2.14	1008	2322	0.93
S01	RSE18_02	2.935	0.98	0.646	4034	1.75	2309	734	0.85
S01	RSE19_01	5.401	1.00	0.565	4249	1.50	2842	122	0.82
S01	RSE09_02	0.439	1.00	0.716	932	0.84	1106	944	0.57
S01	RSE09_03	0.660	1.00	0.769	612	0.85	724	2156	0.80
S01	RSE16_01	0.641	1.00	0.790	751	2.83	266	1706	0.55
S01	RSD12_01	0.715	1.00	0.726	1108	3.87	287	1841	0.59
S01	RSE16_02	1.207	0.99	0.694	1008	2.78	363	2161	0.70
S01	RSE17_01	1.542	0.99	0.754	1733	1.13	1538	4000	1.54
S01	RSE13_01	0.724	1.00	0.727	995	1.53	651	601	0.35
S01	RSD14_01	1.140	0.99	0.760	1992	1.52	1308	1144	0.68
S01	RSE09_06	0.114	1.00	0.692	538	0.73	732	424	0.32
S01	RSE09_07	0.113	1.00	0.709	625	0.61	1033	362	0.39
S01	RSD09_01	0.221	1.00	0.707	701	1.32	532	630	0.32
S01	RSD09_02	0.786	1.00	0.726	160	0.86	185	2600	0.77
S01	RSE12_01	0.323	1.00	0.703	761	1.50	508	848	0.38
S01	RSE11_01	0.042	1.00	0.850	736	0.55	1335	114	0.40
S01	RSE11_02	0.136	1.00	0.799	310	1.08	288	878	0.32
S01	RSE12_02	0.284	1.00	0.741	510	0.41	1254	176	0.40
S01	RSD11_01	0.488	1.00	0.683	543	0.50	1087	1524	0.73
S01	RSE09_05	0.156	1.00	0.775	365	0.79	464	484	0.26
S01	RSD10_01	0.350	1.00	0.722	821	1.14	718	778	0.42
S01	RSE11_03	0.499	1.00	0.797	1610	1.22	1320	620	0.54
S01	RSE15_01	0.089	1.00	0.762	0	0.50	0	1500	0.42
S01	RSD15_01	1.006	0.99	0.775	1796	1.40	1288	1120	0.67
S01	RSE09_04	0.192	1.00	0.781	1101	0.97	1133	350	0.41
S01	RSD17_01	0.158	1.00	0.790	434	1.00	434	730	0.32
S01	RSE21_01	0.000	1.00	0.000	897	0.50	1793	0	-
S01	RSD16_01	1.381	0.99	0.759	1731	1.36	1272	1596	0.80
S01	RSD13_01	0.357	1.00	0.750	1047	1.28	821	682	0.42
S01	RSD13_02	0.528	1.00	0.706	150	1.28	118	2622	0.76
S01	RSE20_01	0.549	1.00	0.639	1196	1.04	1152	918	0.58
S02	RSE03_01	0.939	1.00	0.668	1095	0.60	1811	1899	1.03
S02	RSE01_01	0.000	1.00	0.000	760	0.50	1520	0	-
S03	RSE06_01	0.037	1.00	0.732	307	2.70	114	240	0.10
S03	RSE04_01	0.186	1.00	0.581	0	0.50	0	1743	0.48
S03	RSE07_01	0.299	1.00	0.725	1081	1.51	717	554	0.35
S03	RSE06_02	1.005	0.99	0.784	1499	1.33	1125	1340	0.68
S03	RSD18_01	0.000	1.00	0.000	169	1.00	169	0	-
S03	RSE02_01	0.213	1.00	0.682	0	0.50	0	0	-
S03	RSE08_01	0.914	1.00	0.600	854	1.84	465	2140	0.72
S03	RSE08_02	0.233	1.00	0.736	719	1.84	390	648	0.29
S03	RSE08_04	0.868	1.00	0.700	290	0.84	345	880	0.34
S03	RSE08_03	0.239	1.00	0.747	354	0.83	426	1354	0.49
S03	RSE09_09	0.668	1.00	0.711	1246	1.04	1200	1800	0.83
S03	RSD07_01	0.226	1.00	0.732	414	0.63	654	1300	0.54
S03	RSE06_03	0.084	1.00	0.830	487	0.81	597	348	0.26
S03	RSE09_08	0.470	1.00	0.748	1339	0.61	2191	702	0.80
S03	RSE10_01	0.352	1.00	0.702	922	0.71	1295	1260	0.71
S03	RSD08_01	0.323	1.00	0.715	518	1.12	462	1600	0.57
S04	RSE05_01	1.481	0.99	0.628	1450	1.61	901	2132	0.84
S04	RSD03_01	0.088	1.00	0.700	133	1.00	133	899	0.29
S05	RSD04_01	1.002	0.99	0.657	626	1.61	388	2122	0.70
S05	RSD05_01	0.649	1.00	0.715	393	2.67	147	1785	0.54
S05	RSD06_01	0.000	1.00	0.000	1218	2.62	465	0	-
S05	RSE14_01	2.657	0.98	0.604	2773	2.58	1076	1800	0.80
S06	RSD01_01	0.932	1.00	0.806	1160	1.36	853	843	0.47
S06	RSD02_01	0.924	1.00	0.792	1347	1.19	1132	725	0.52
S06	RSE22_01	0.000	1.00	0.000	716	0.50	1433	0	-

ANNEX E.3

***PRELIMINARY EXAMINATION OF
DIMENSION OF STOP LOG GATE***

Dimension of Maintenance Hole and Stop Log

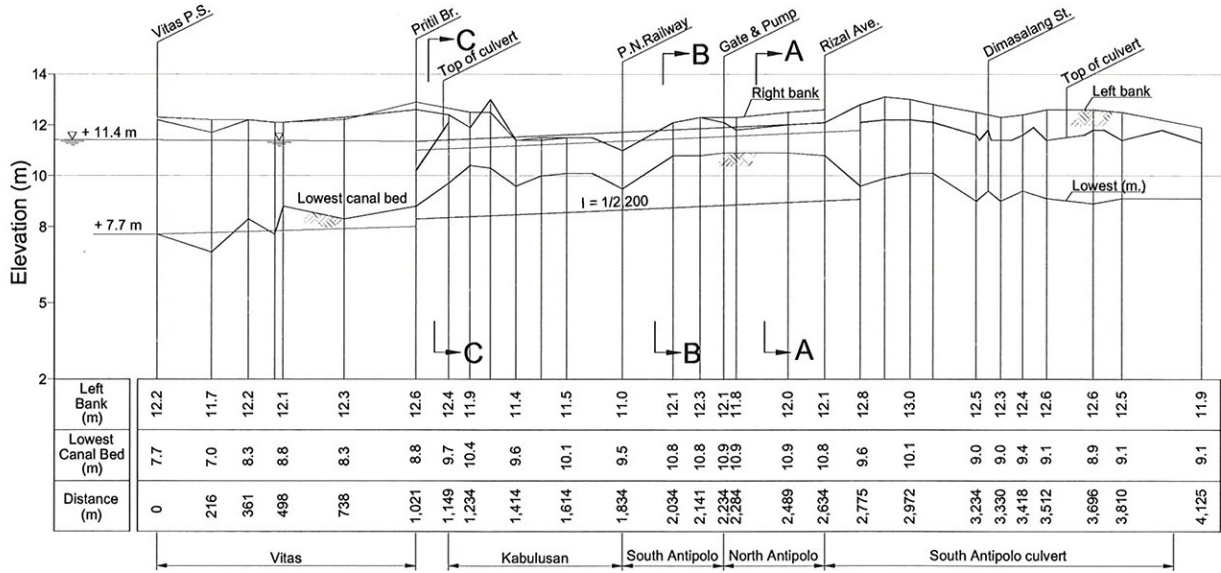
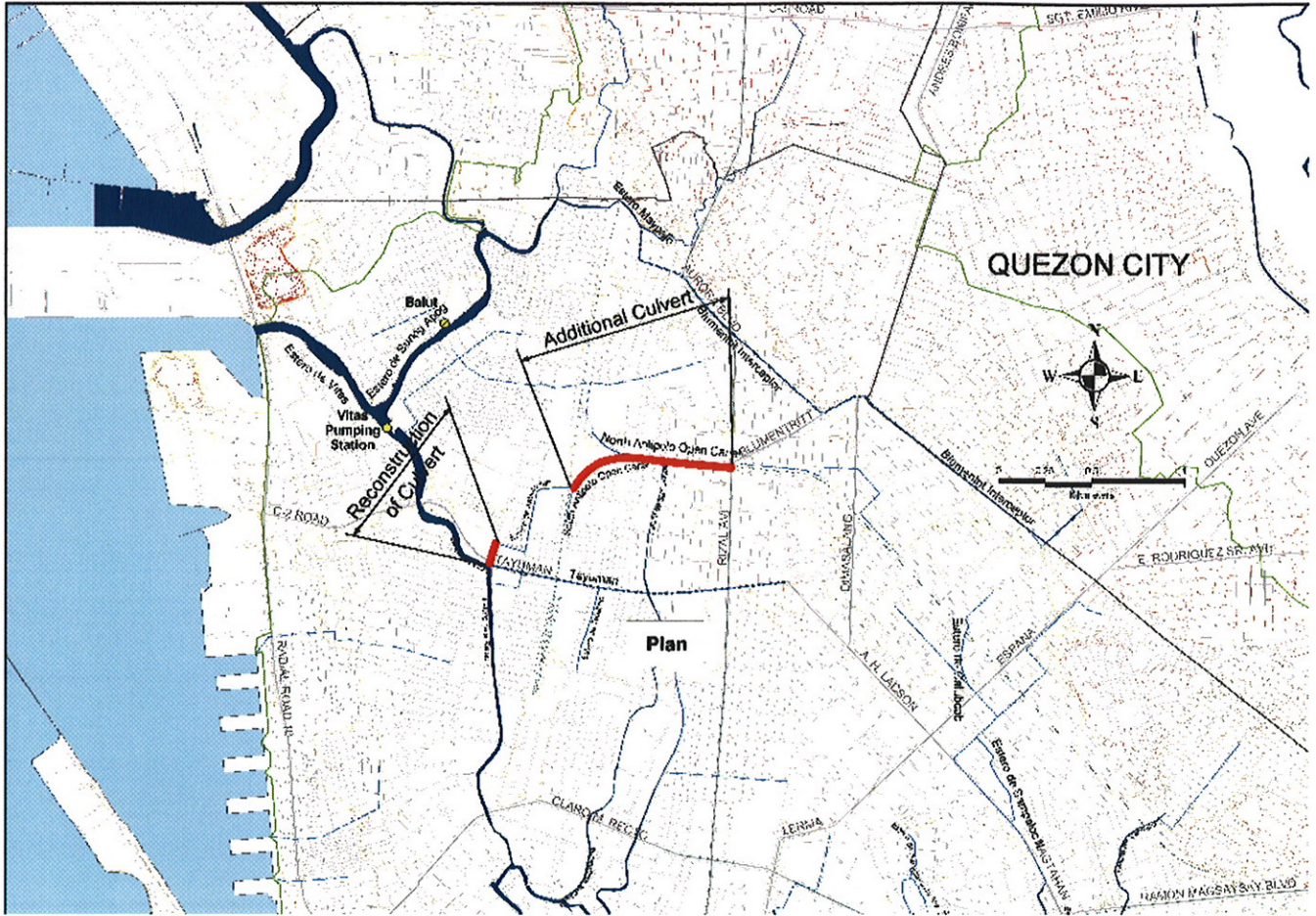
Code	Name	Dimension of Box Culvert				Dimension of manhole		Phase
		Length	Cells.	Width (m)	Height (m)	Width (m)	Height (m)	
ND07	Pampanga	1040	2	2.8	3.3	7.1	6.3	2
ND08	Solis-Tecson	1430	2	2.0	1.5	5.5	4.5	2
ND09	South Antipolo	1370	1	4.5	2.6	5.5	5.6	2
ND10	Kabulusan Sub	140	1	2.8	2.4	3.8	5.4	2
ND11	Kabulusan	370	1	5.8	2.7	6.8	5.7	2
ND12	Tayuman	1600	1	3.1	2.4	4.1	5.4	2
ND13	Fugoso	670	2	2.2	2.8	5.9	5.8	3
ND14	Severino Reyes	650	1	3.2	1.8	4.2	4.8	2
ND15	Lepanto-Gov.	1160	3	4.0	3.2	14	6.2	2
ND16	Lepanto Josefina	1060	2	2.1	2.2	5.7	5.2	2
ND17	Economica	820	3	3.4	2.7	12.2	5.7	2
ND18	Washington Margal	210	1	2.8	2.5	3.8	5.5	2
ND19	Visayas	670	2	2	2	5.5	5	3
ND05	Blumentritt Interceptor	2980	2	2.6	2.6	6.7	5.6	1
ND04	Buendia	510	1	3	2.4	4	5.4	2
ND01	Pacheco	1160	1	4	2.7	5	5.7	3
ND02	Lakandula	870	1	4.2	2.6	5.2	5.6	2
SD14	Buendia Outfall	1990	2	3.8	3.9	9.1	6.9	1
SD15	Libertad Outfall	1800	1	4.8	3.1	5.8	6.1	3
SD16	EDSA Outfall	1720	2	4.9	3.1	11.3	6.1	2
SD13	Vito Cruz	1450	1	2	1.6	3	4.6	3
SD04	Makati Headrace I	630	1	5.2	2.5	6.2	5.5	2
SD05	Makati Headrace II	390	1	3.5	2.6	4.5	5.6	3
SD01	Padre Faura	1160	1	3.5	2.7	4.5	5.7	2
SD02	Remedios	1350	1	4.4	3.2	5.4	6.2	2

Dimension of Maintenance Hole and Stop Log

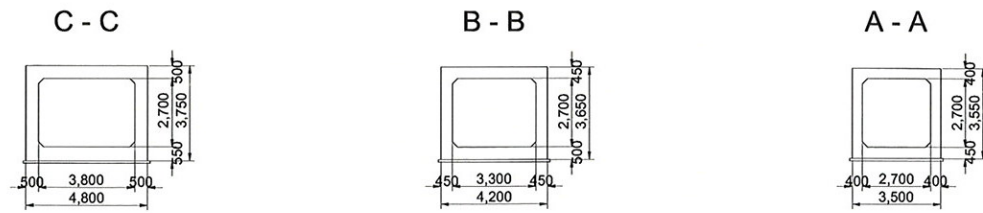
Code	Name	Dimension of Box Culvert			Weight of gate (ton)	Nos.	Dimension of Manhole				Phase		
		Length	Cells.	Width (m)			Height (m)	Height (m)	Reconcrete	Excavation		Back-fill	Dimolish
ND07	Pampanga	1040	2	2.8	3.3	4	7.1	6.3	376	182	129	53	2
ND08	Solis-Tecson	1430	2	2.0	1.5	5	5.5	4.5	305	132	91	33	2
ND09	South Antipolo	1370	1	4.5	2.6	4	5.5	5.6	290	152	110	35	2
ND10	Kabulusan Sub	140	1	2.8	2.4	2	3.8	5.4	114	129	101	27	2
ND11	Kabulusan	370	1	5.8	2.7	2	6.8	5.7	169	168	117	41	2
ND12	Tayuman	1600	1	3.1	2.4	5	4.1	5.4	297	133	102	28	2
ND13	Fugoso	670	2	2.2	2.8	3	5.9	5.8	234	160	115	45	3
ND14	Severino Reyes	650	1	3.2	1.8	3	4.2	4.8	164	123	91	26	2
ND15	Lepanto-Gov.	1160	3	4.0	3.2	3	14	6.2	458	257	152	88	2
ND16	Lepanto Josefina	1060	2	2.1	2.2	3	5.7	5.2	210	147	104	39	2
ND17	Economica	820	3	3.4	2.7	2	12.2	5.7	257	228	136	76	2
ND18	Washington Margal	210	1	2.8	2.5	2	3.8	5.5	116	131	102	28	2
ND19	Visayas	670	2	2	2	2	5.5	5	133	141	100	37	3
ND05	Blumentritt Interceptor	2980	2	2.6	2.6	8	6.7	5.6	658	165	115	46	1
ND04	Buendia	510	1	3	2.4	2	4	5.4	117	131	101	28	2
ND01	Pacheco	1160	1	4	2.7	3	5	5.7	209	148	110	34	3
ND02	Lakandula	870	1	4.2	2.6	3	5.2	5.6	210	148	109	34	2
SD14	Buendia Outfall	1990	2	3.8	3.9	5	9.1	6.9	600	215	146	66	1
SD15	Libertad Outfall	1800	1	4.8	3.1	5	5.8	6.1	402	164	120	39	3
SD16	EDSA Outfall	1720	2	4.9	3.1	5	11.3	6.1	638	225	140	68	2
SD13	Vito Cruz	1450	1	2	1.6	4	3	4.6	177	106	84	20	3
SD04	Makati Headrace I	630	1	5.2	2.5	2	6.2	5.5	154	158	111	37	2
SD05	Makati Headrace II	390	1	3.5	2.6	2	4.5	5.6	129	141	107	31	3
SD01	Padre Faura	1160	1	3.5	2.7	3	4.5	5.7	196	142	109	32	2
SD02	Remedios	1350	1	4.4	3.2	3	5.4	6.2	234	161	121	38	2

ANNEX E.4

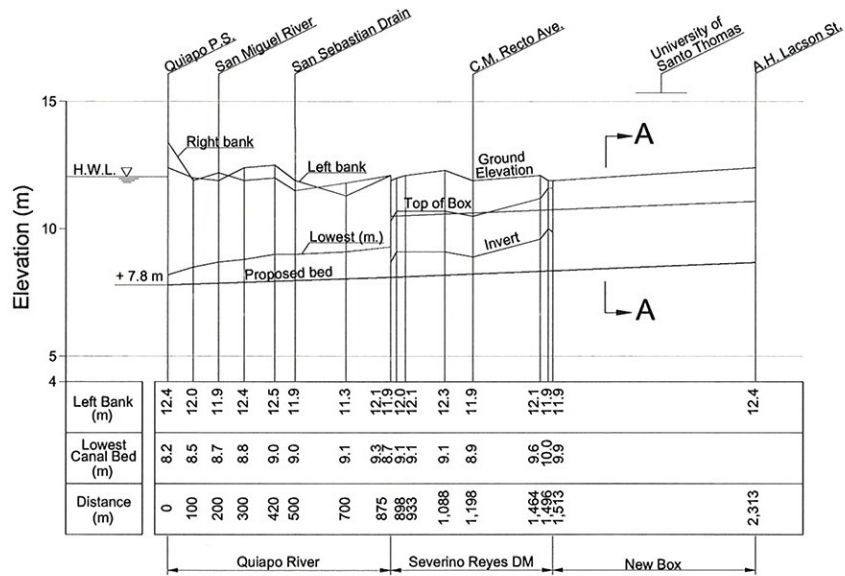
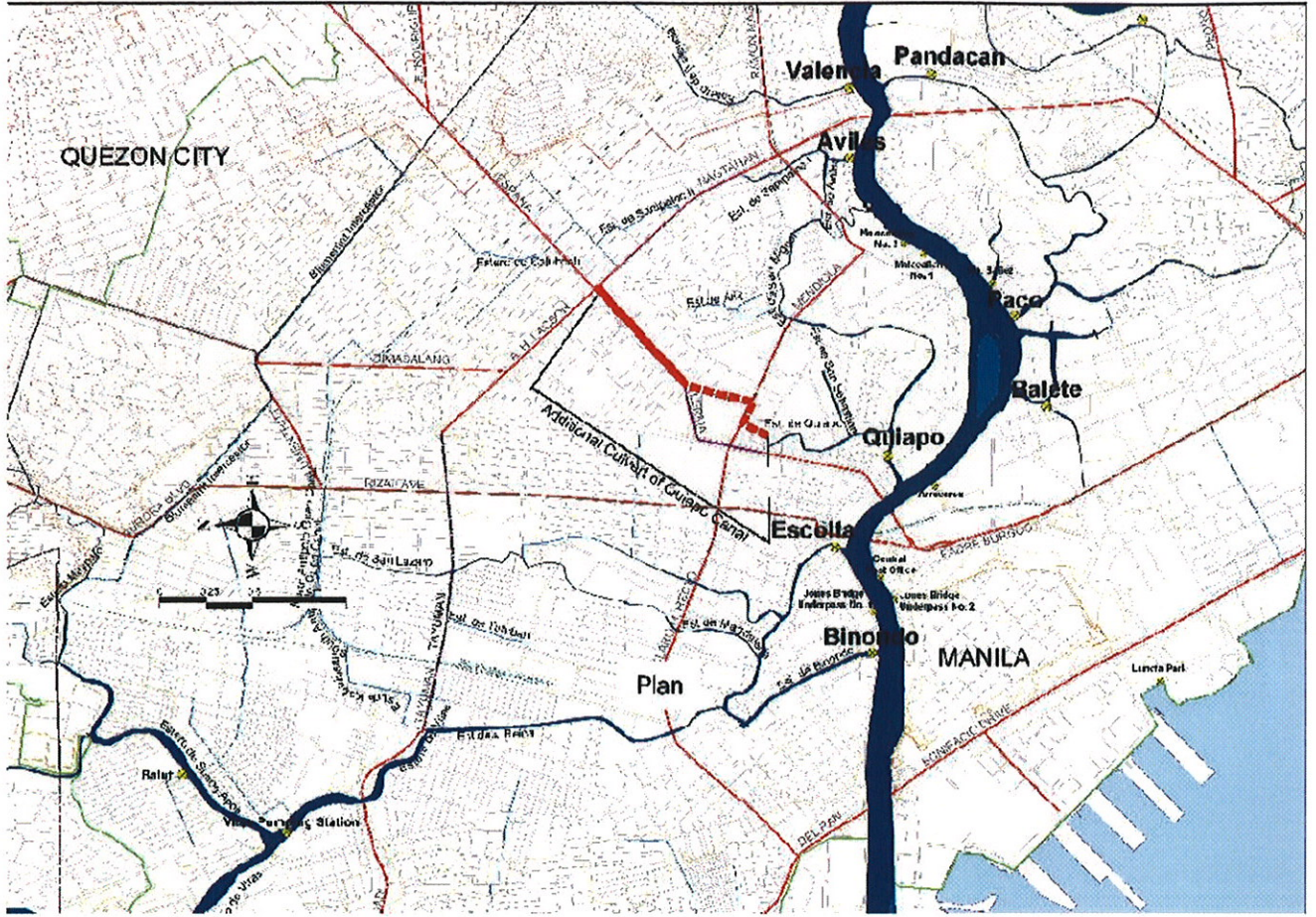
***PRELIMINARY EXAMINATION OF
ADDITIONAL WORKS FOR DRAINAGE CHANNELS***



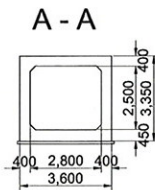
Longitudinal Profile of Antipolo Canal



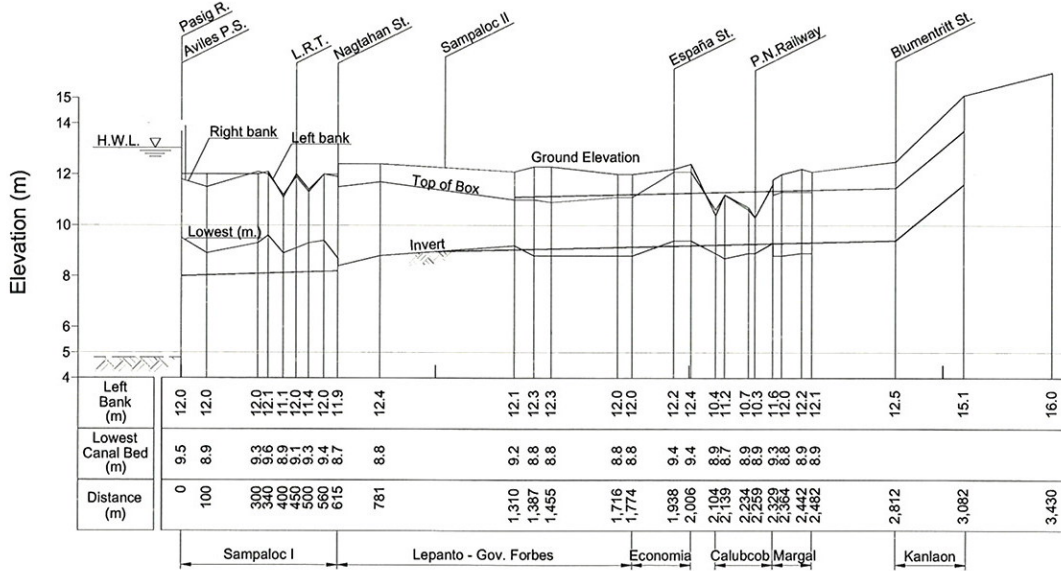
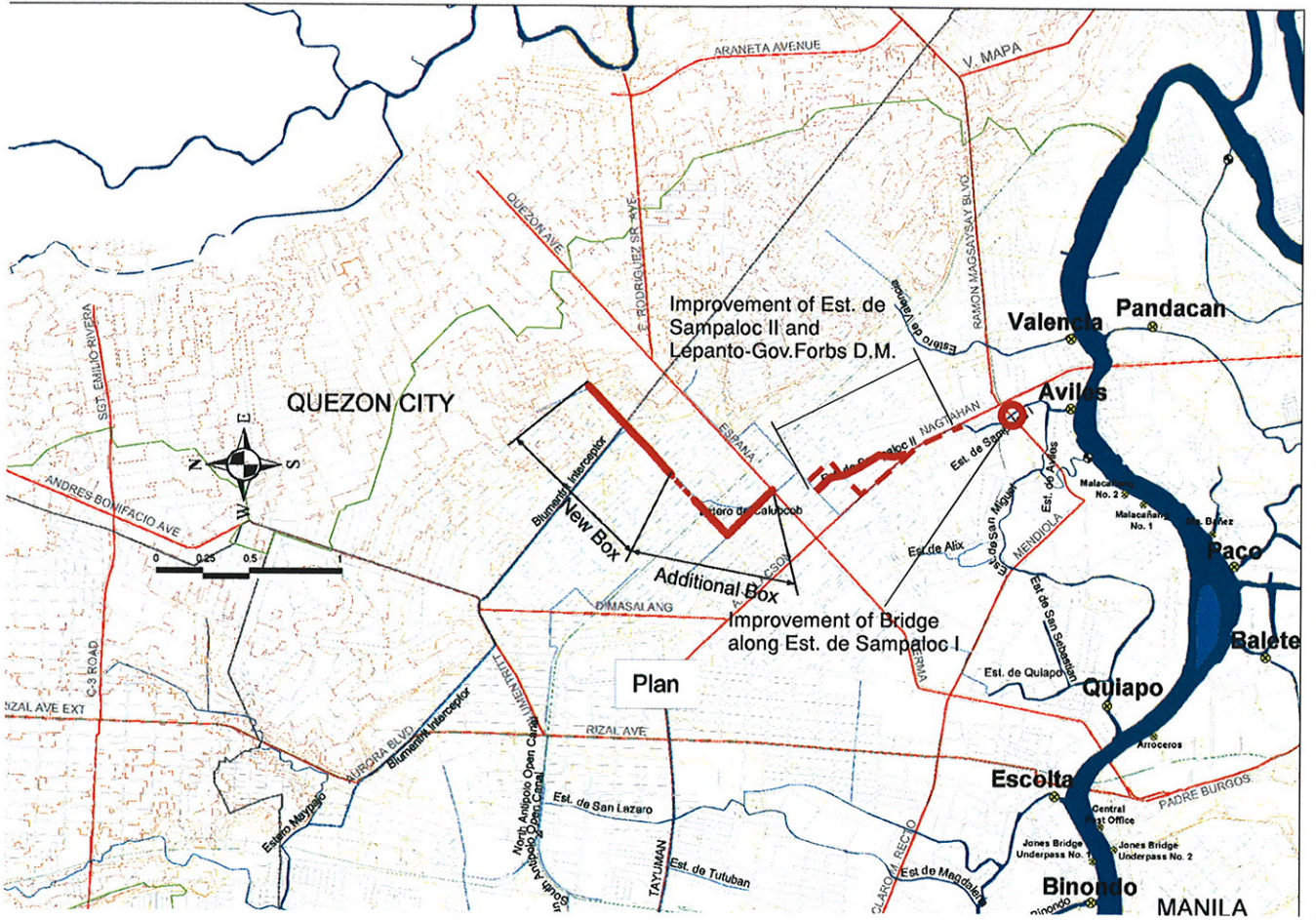
Cross-section



Longitudinal Profile of Quiaipo

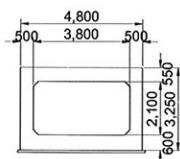


Cross-section

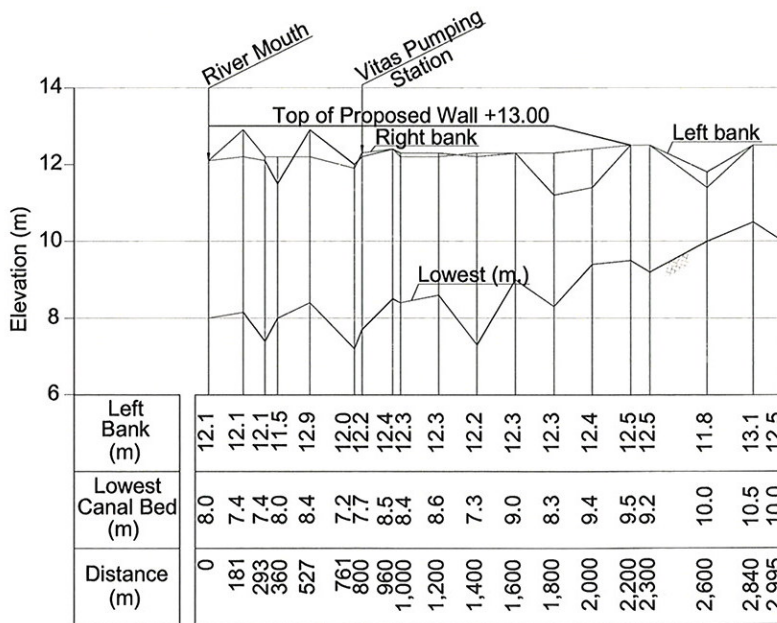
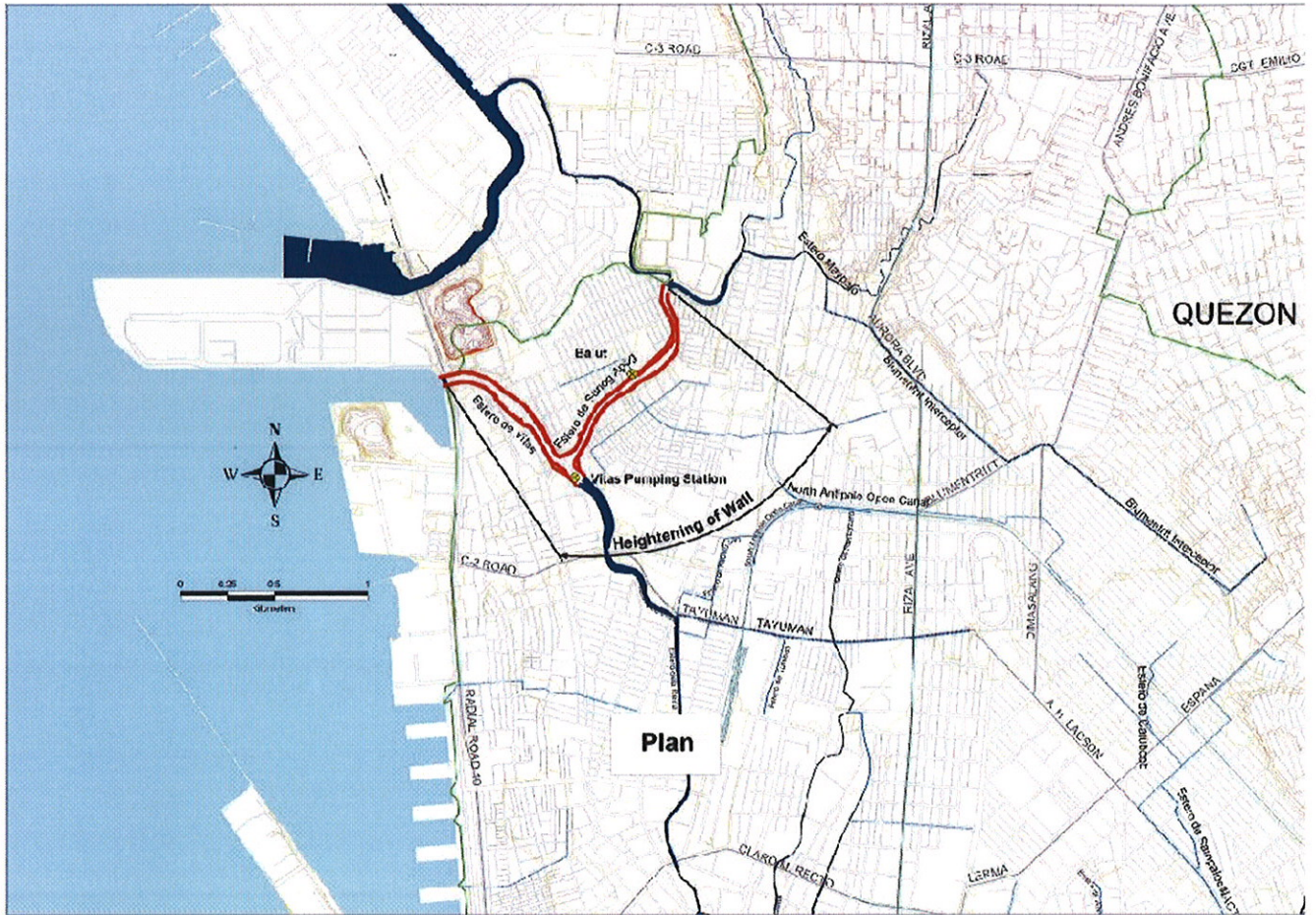


Longitudinal Profile of Lepanto, Economia & Margal

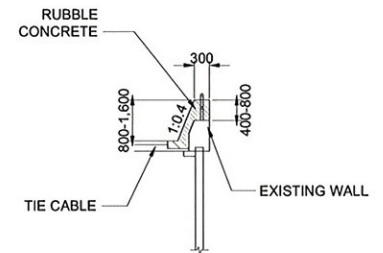
B - B



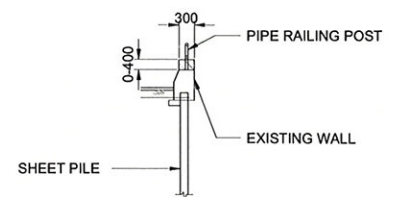
Cross-section of New or Additional Box culvert along Margal



Longitudinal Profile of Heightening Wall



TYPE 1



TYPE 2