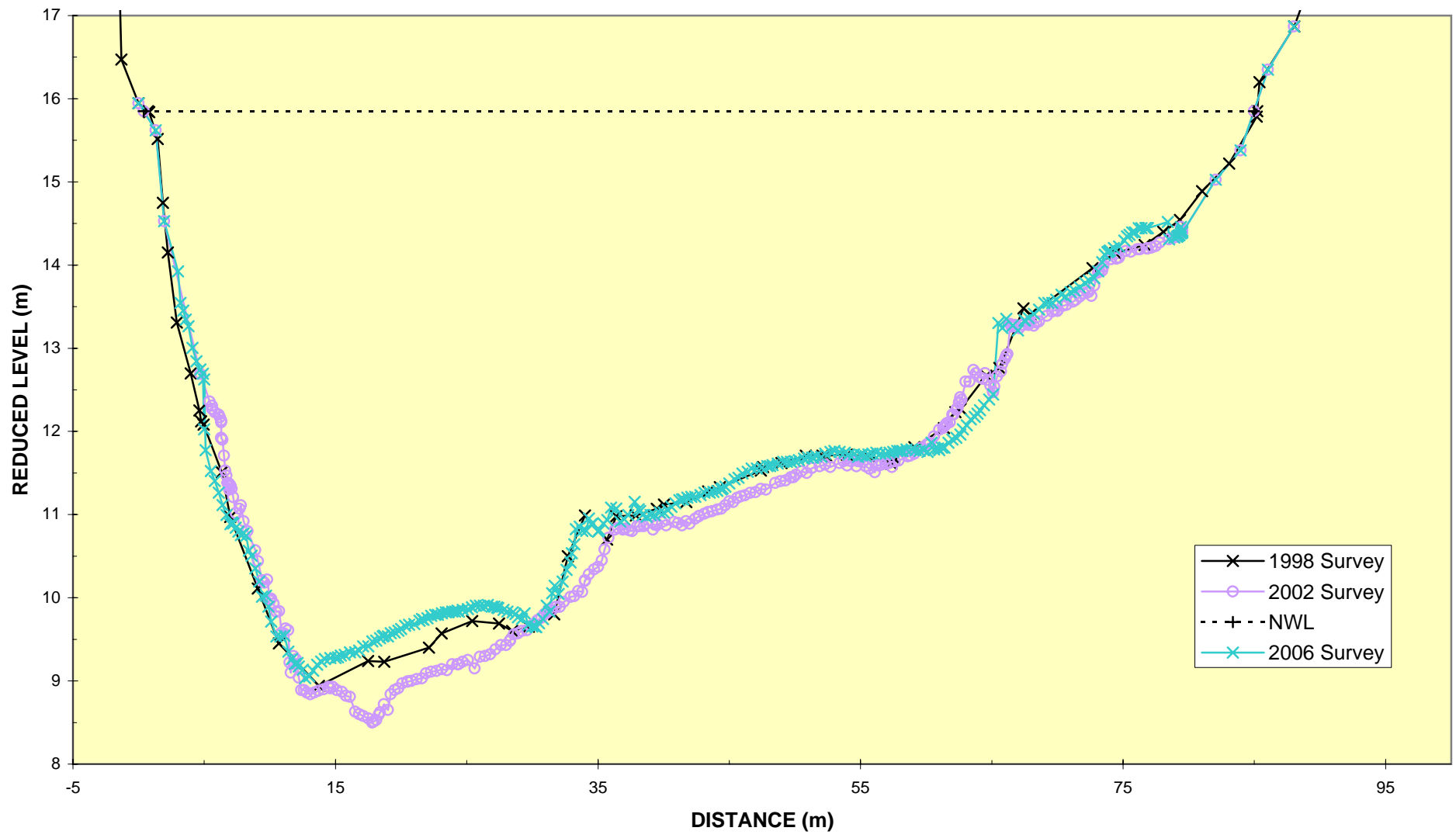
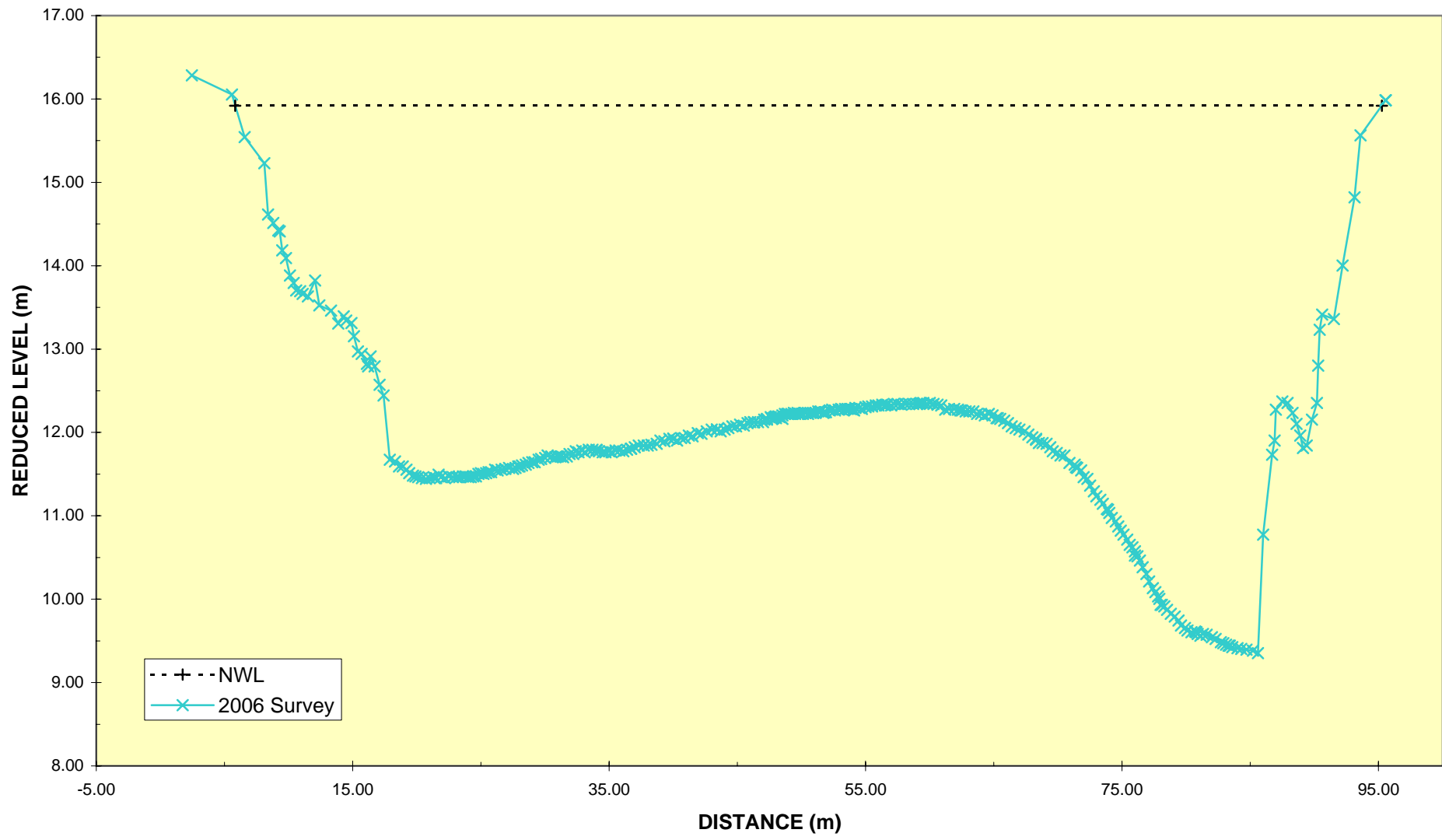


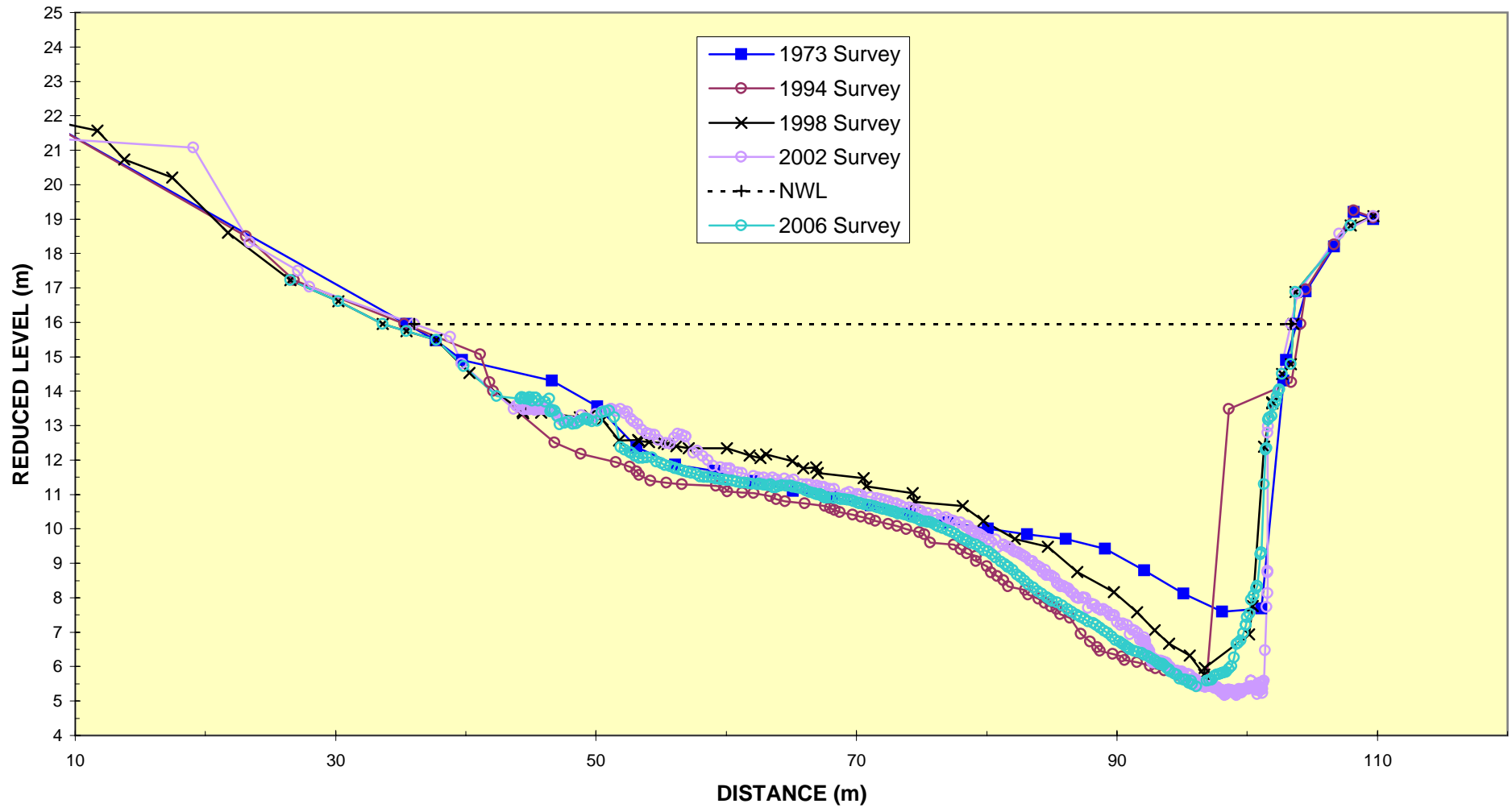
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 158A



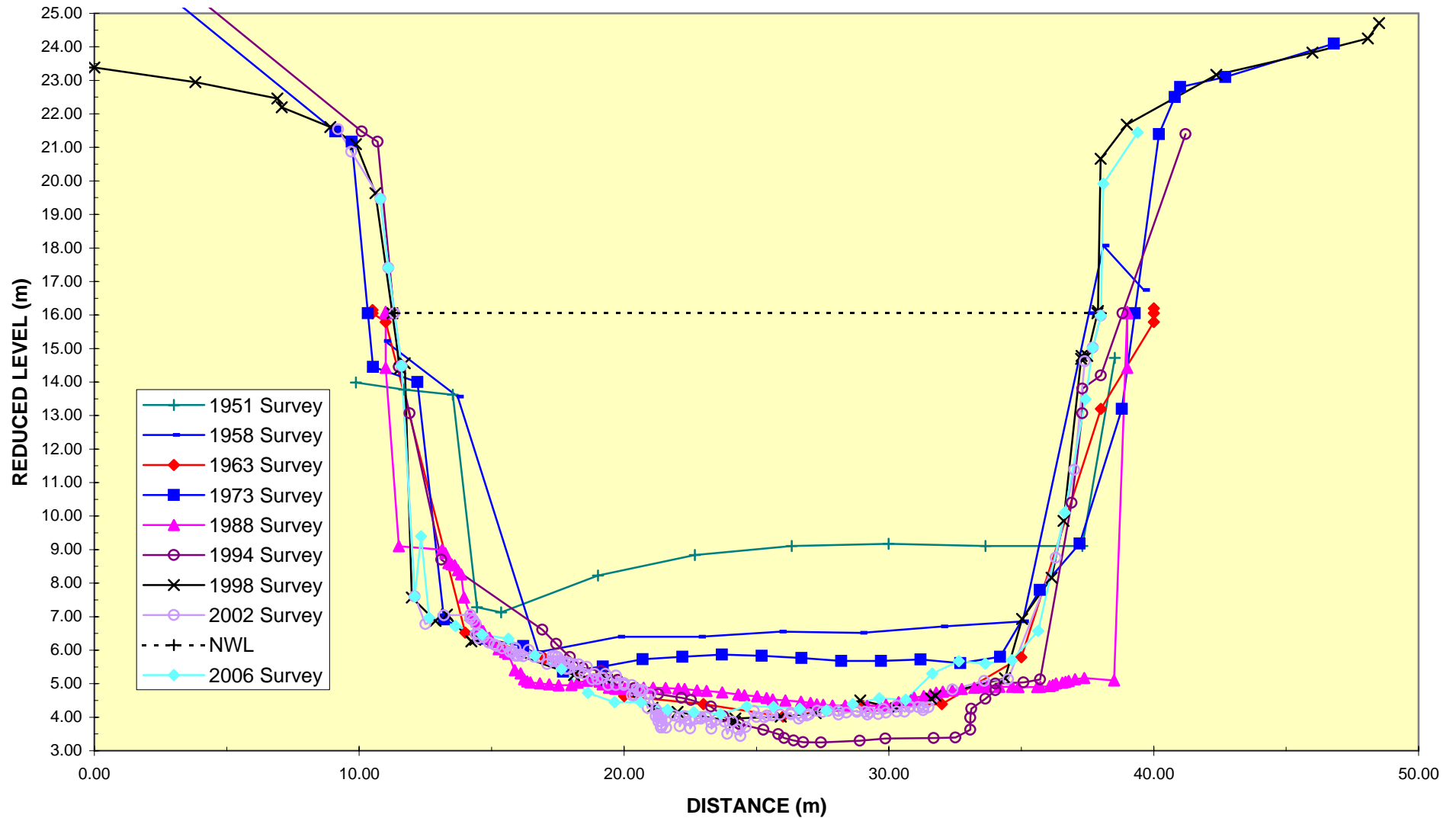
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 158G



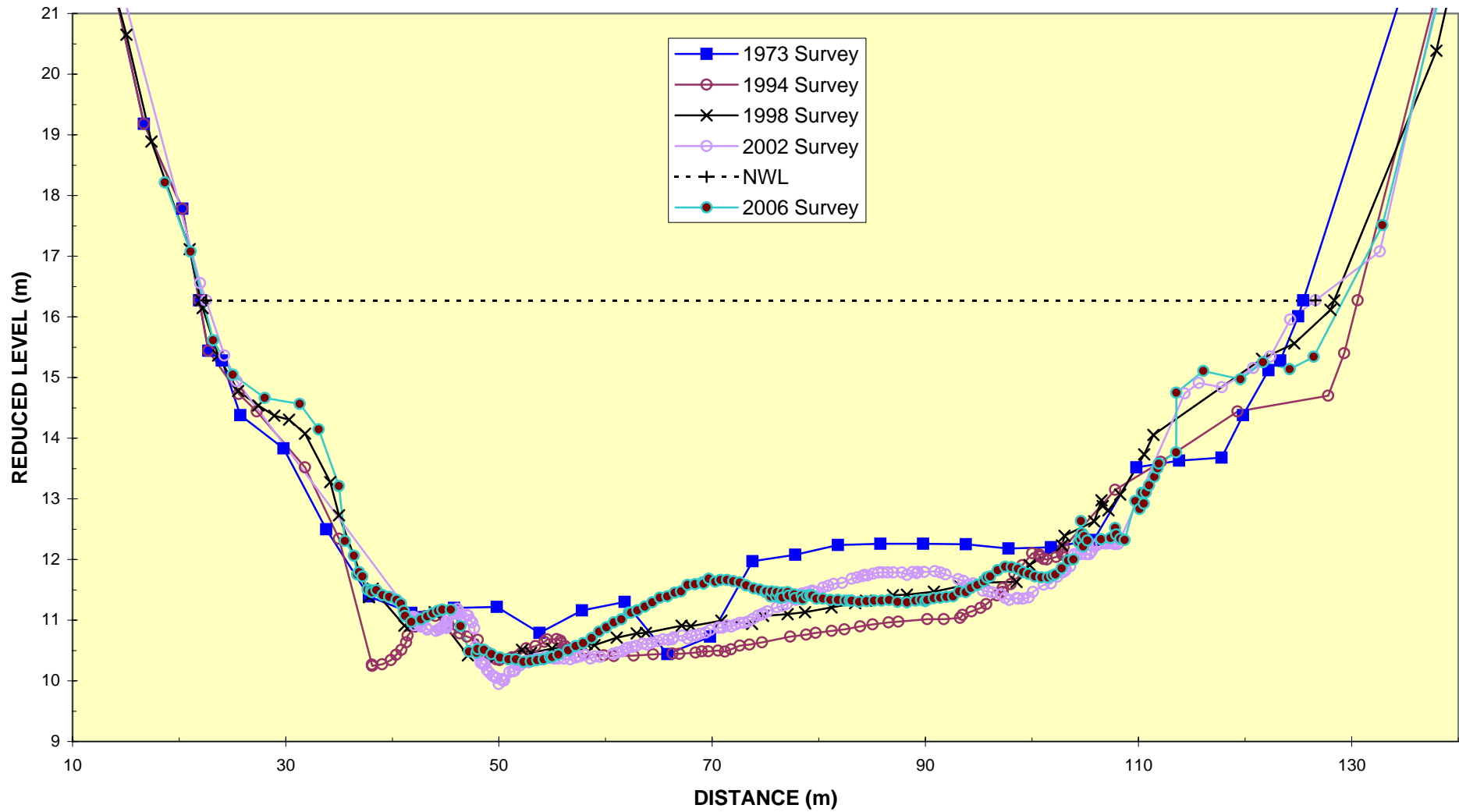
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 159A



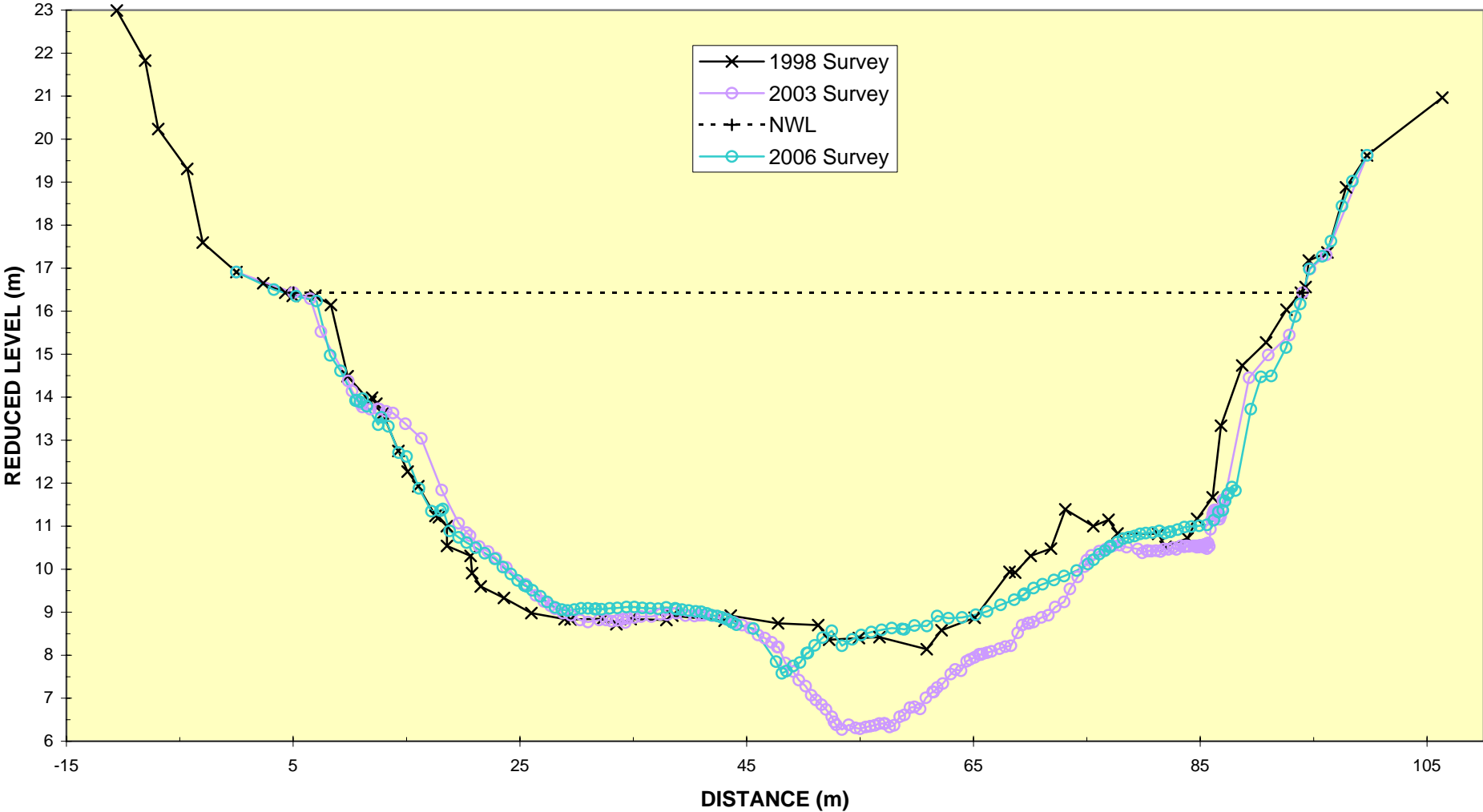
**ENVIRONMENT WAIKATO
WAIKATO RIVER : CROSS-SECTION 159
Narrow Bridge**



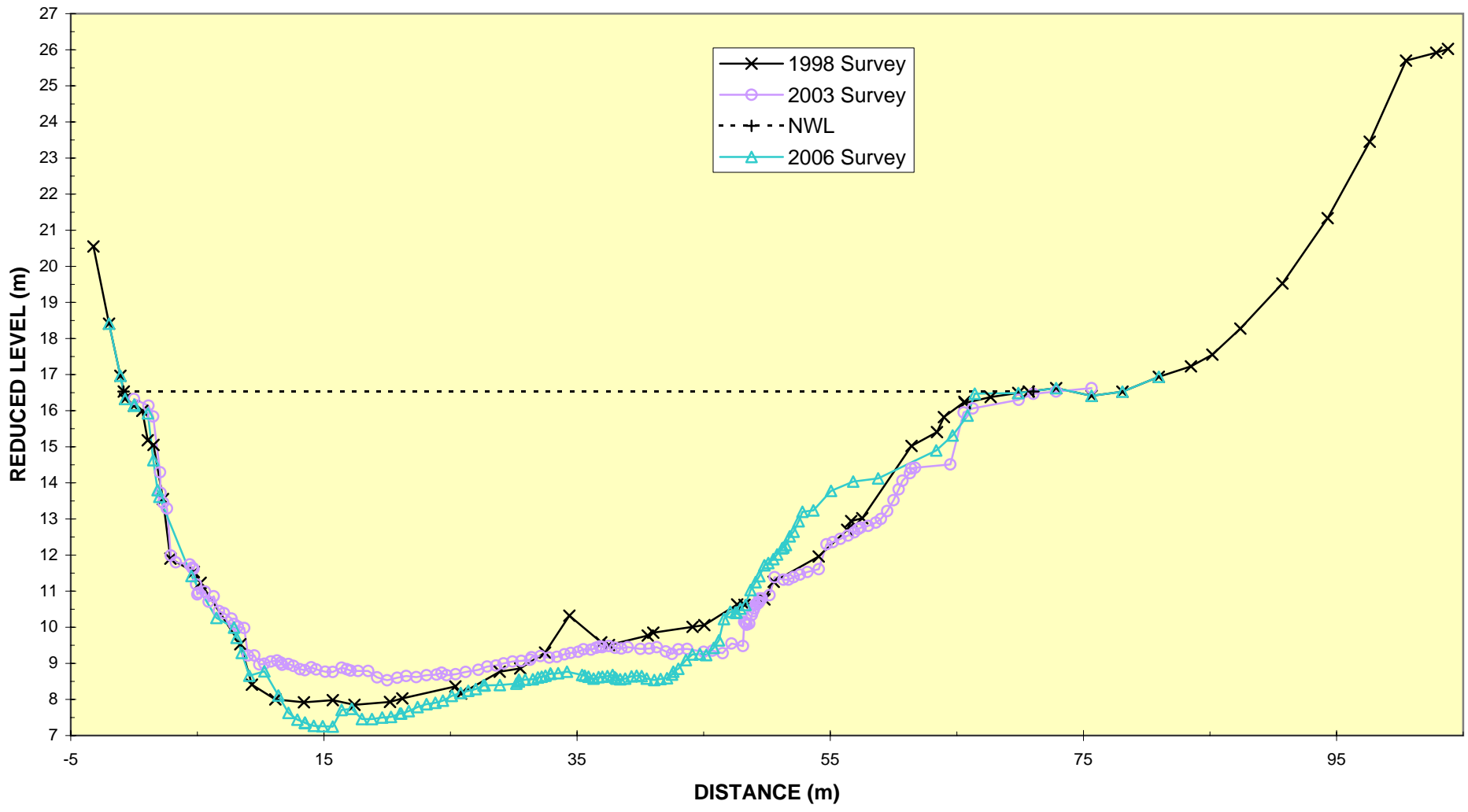
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 160



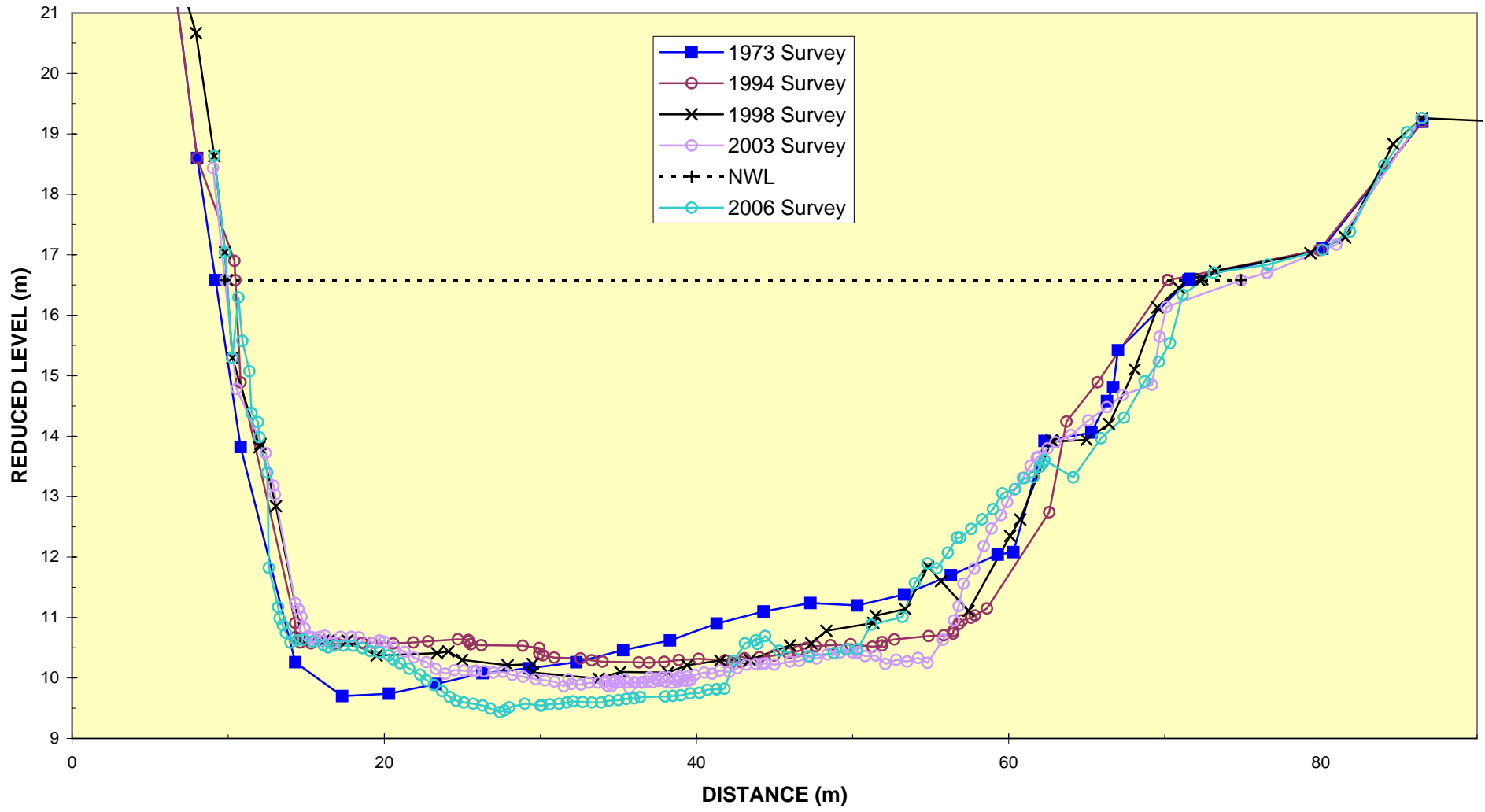
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 161A



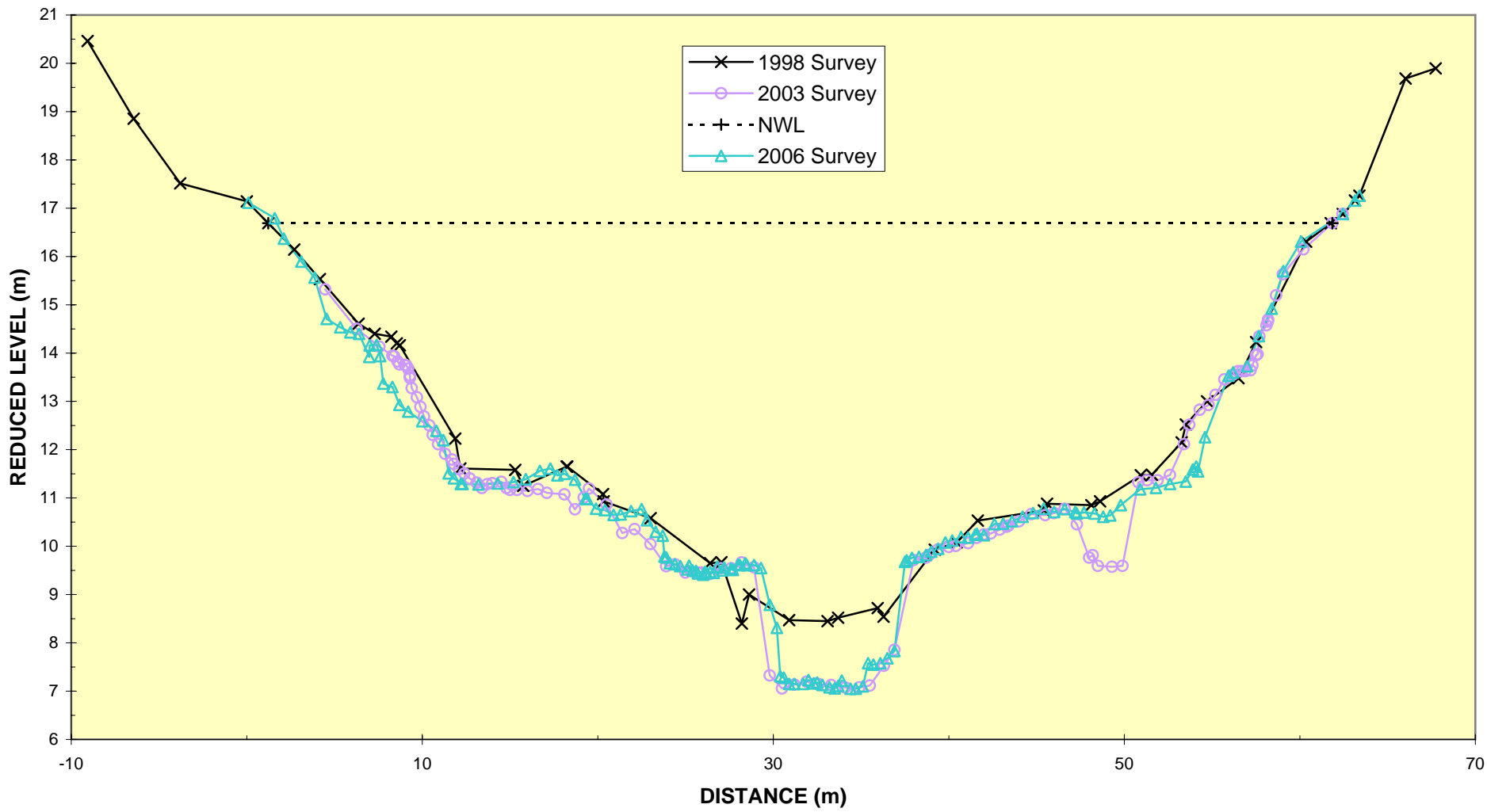
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 161B



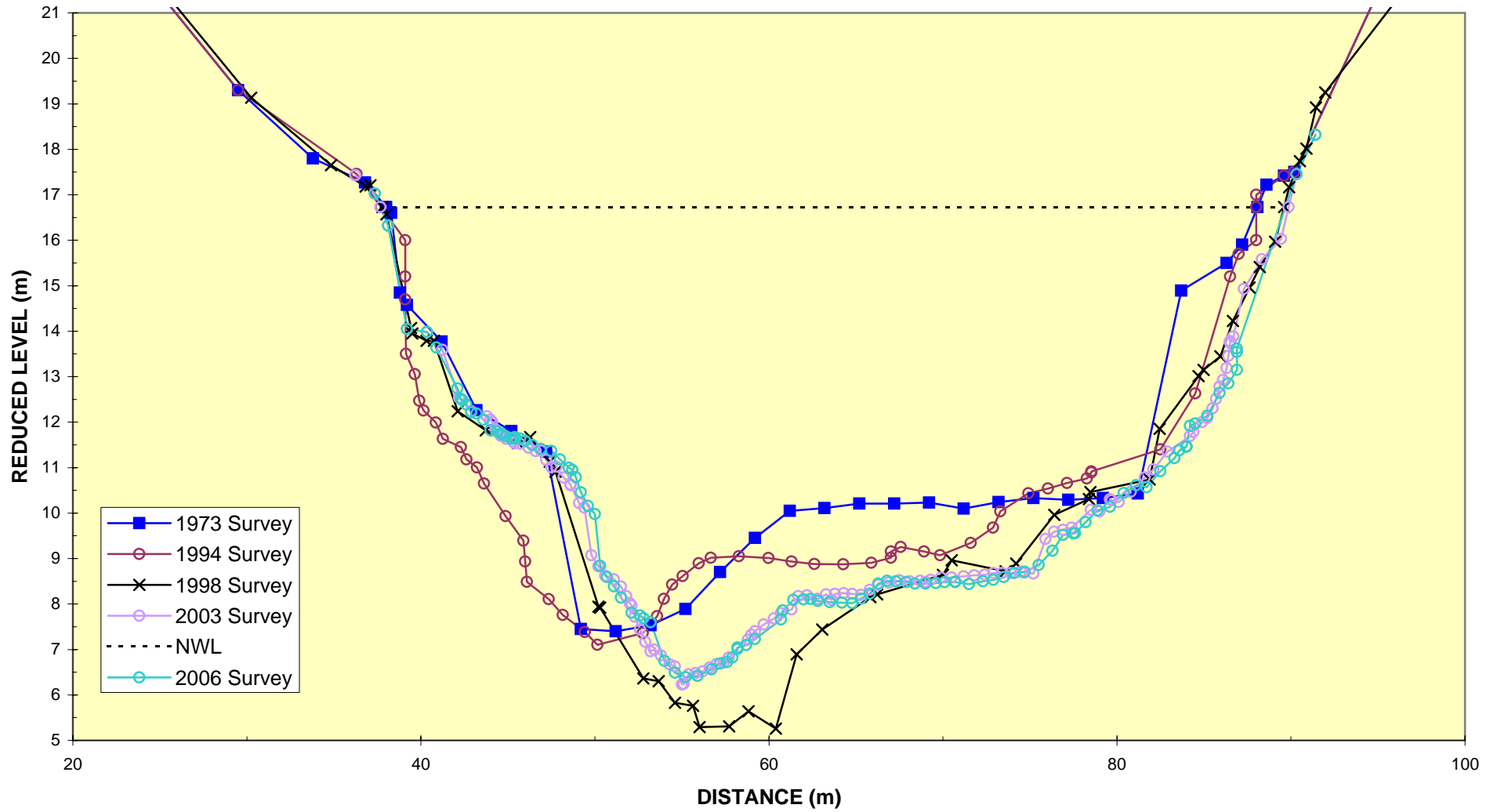
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 162



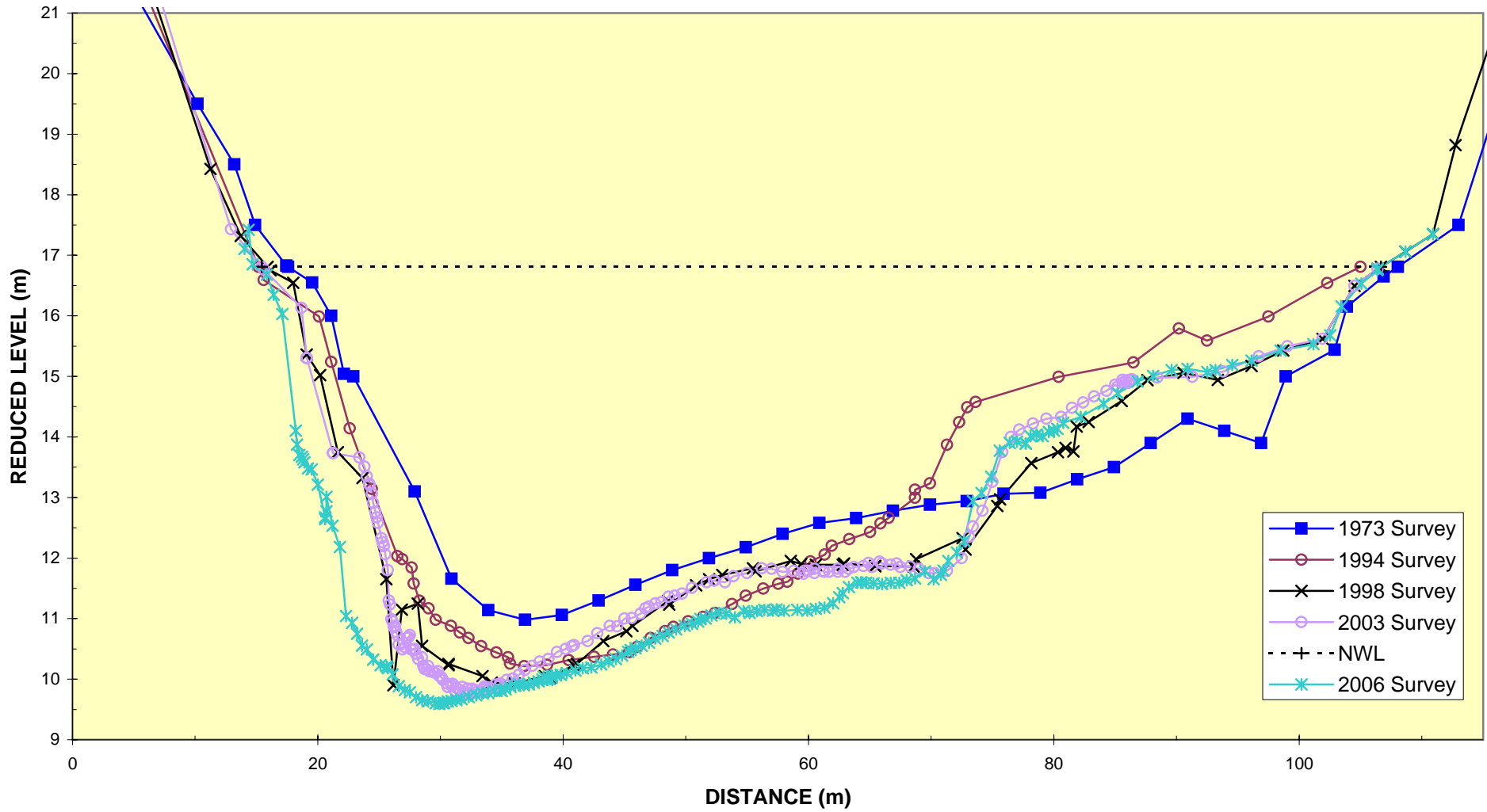
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 162A



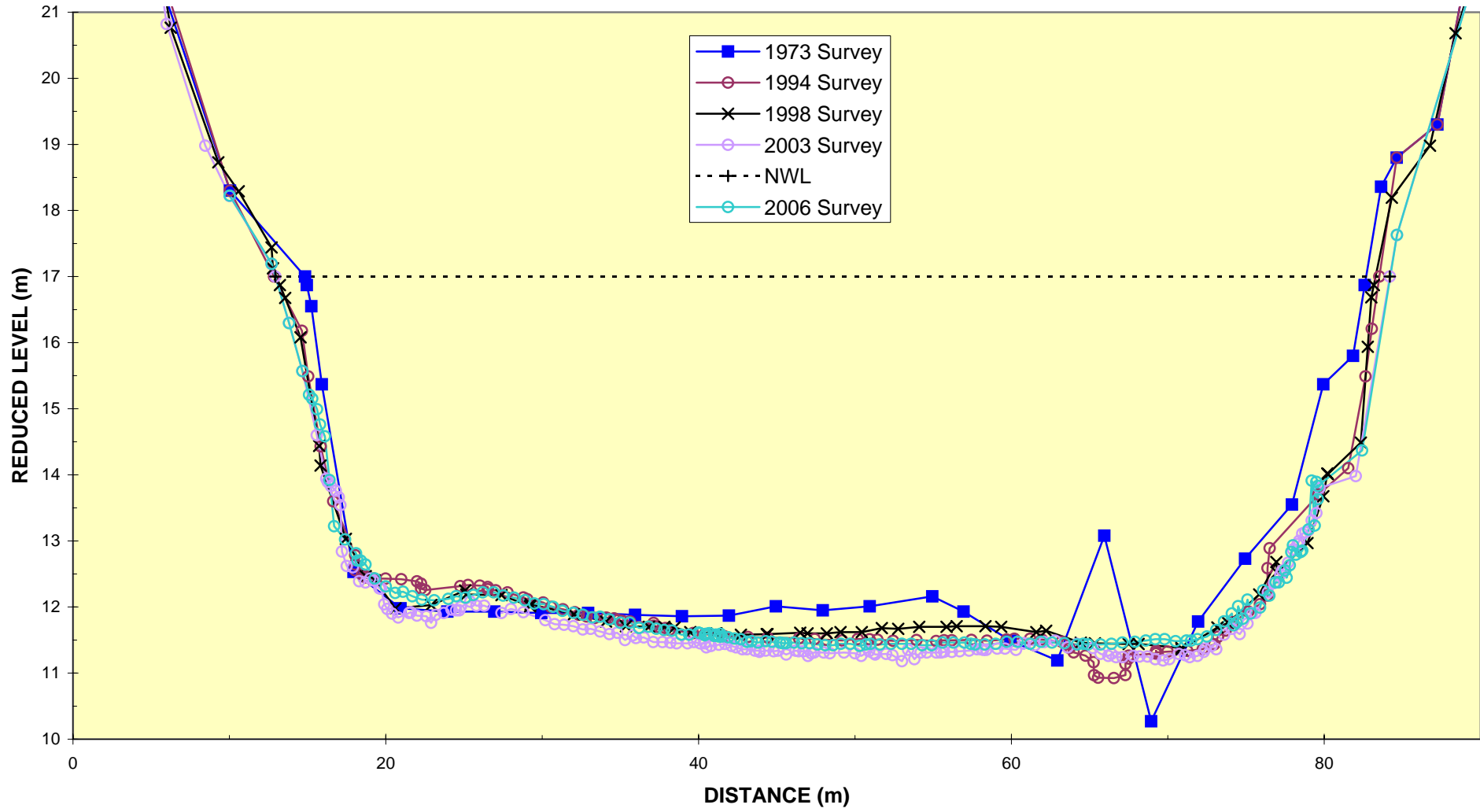
**ENVIRONMENT WAIKATO
WAIKATO RIVER : CROSSECTION 163
Lochiel Golfcourse**



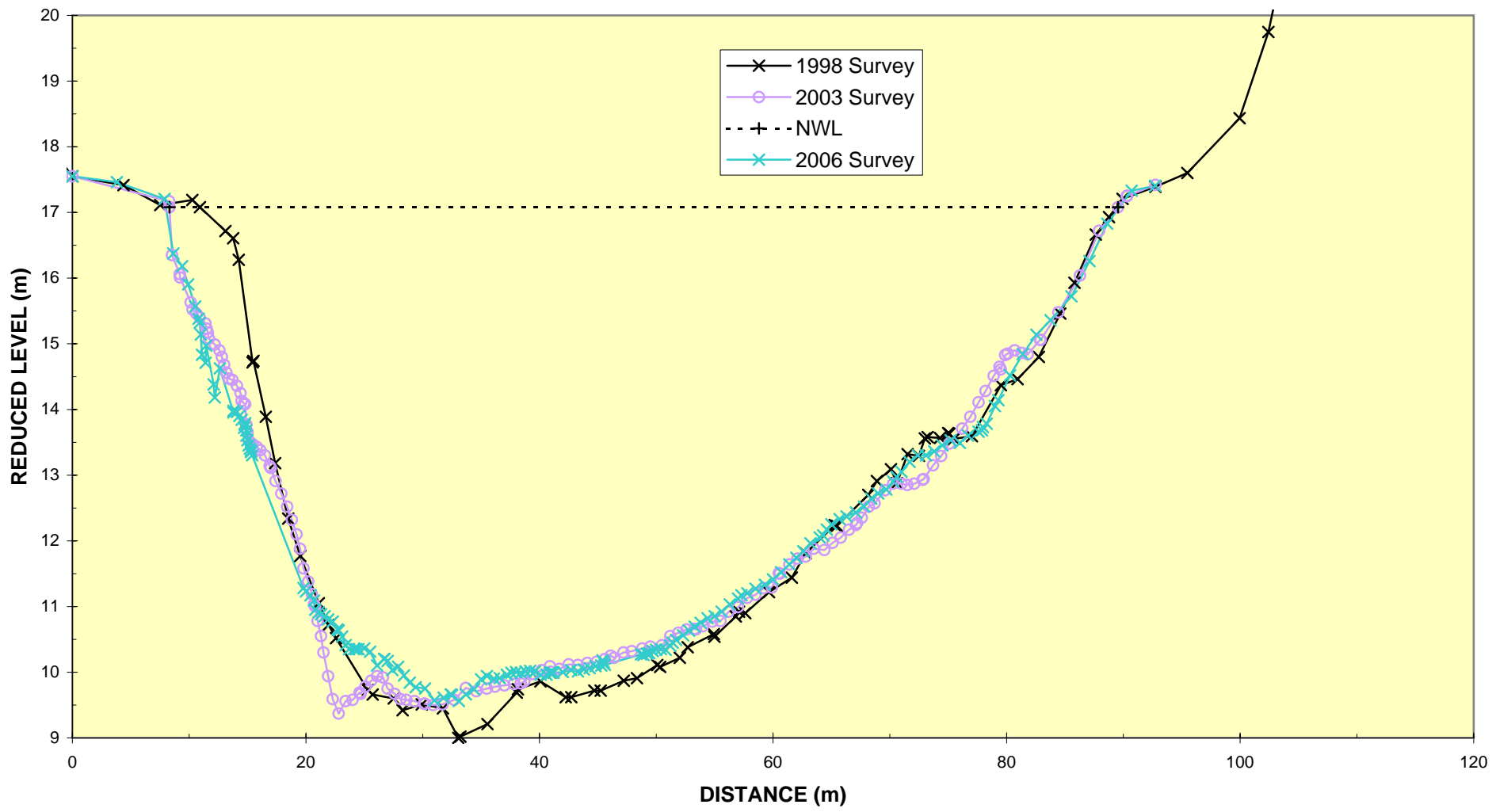
**ENVIRONMENT WAIKATO
WAIKATO RIVER : CROSSECTION 164
Mystery Creek Fielddays Site**



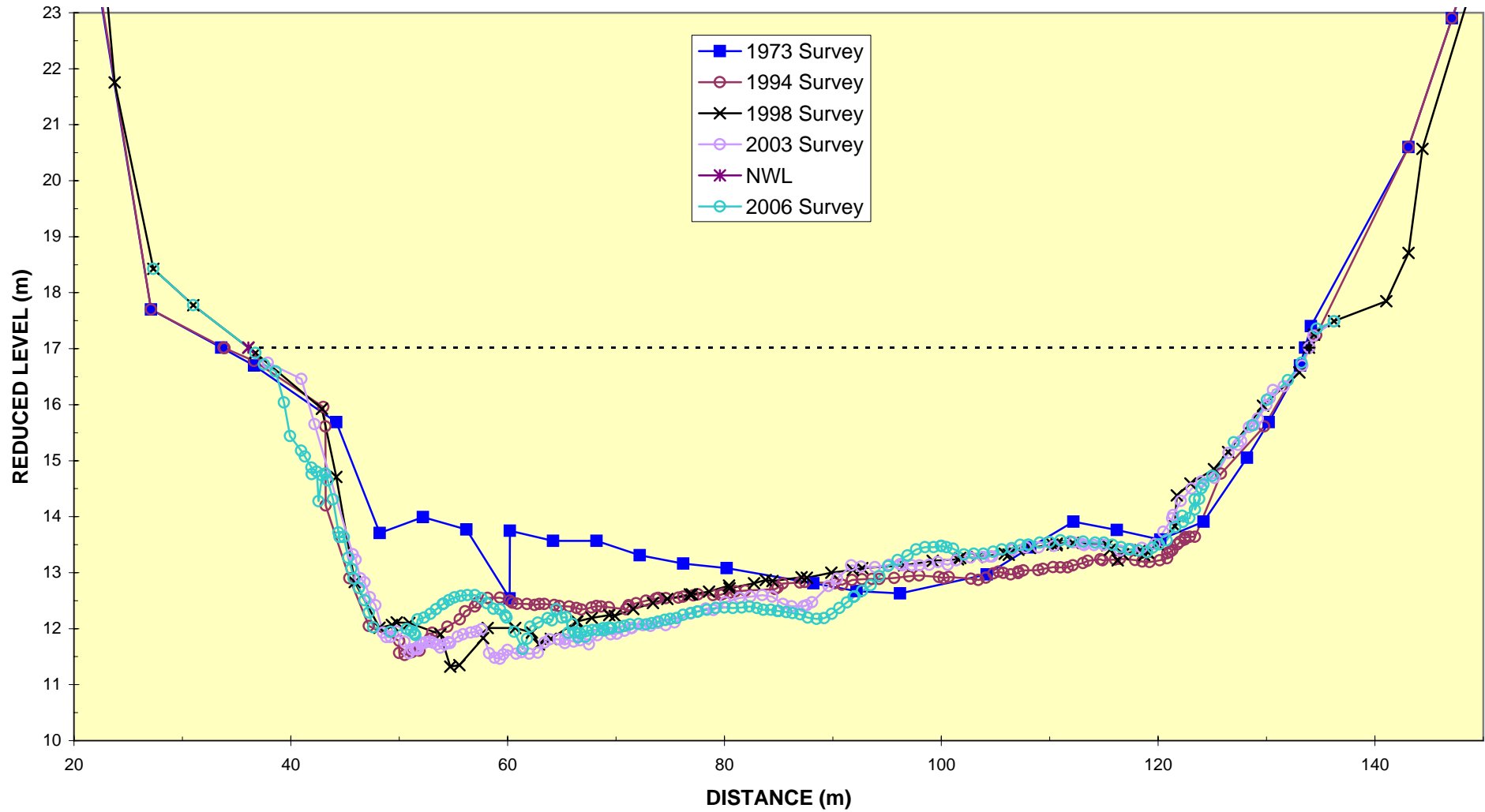
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 165



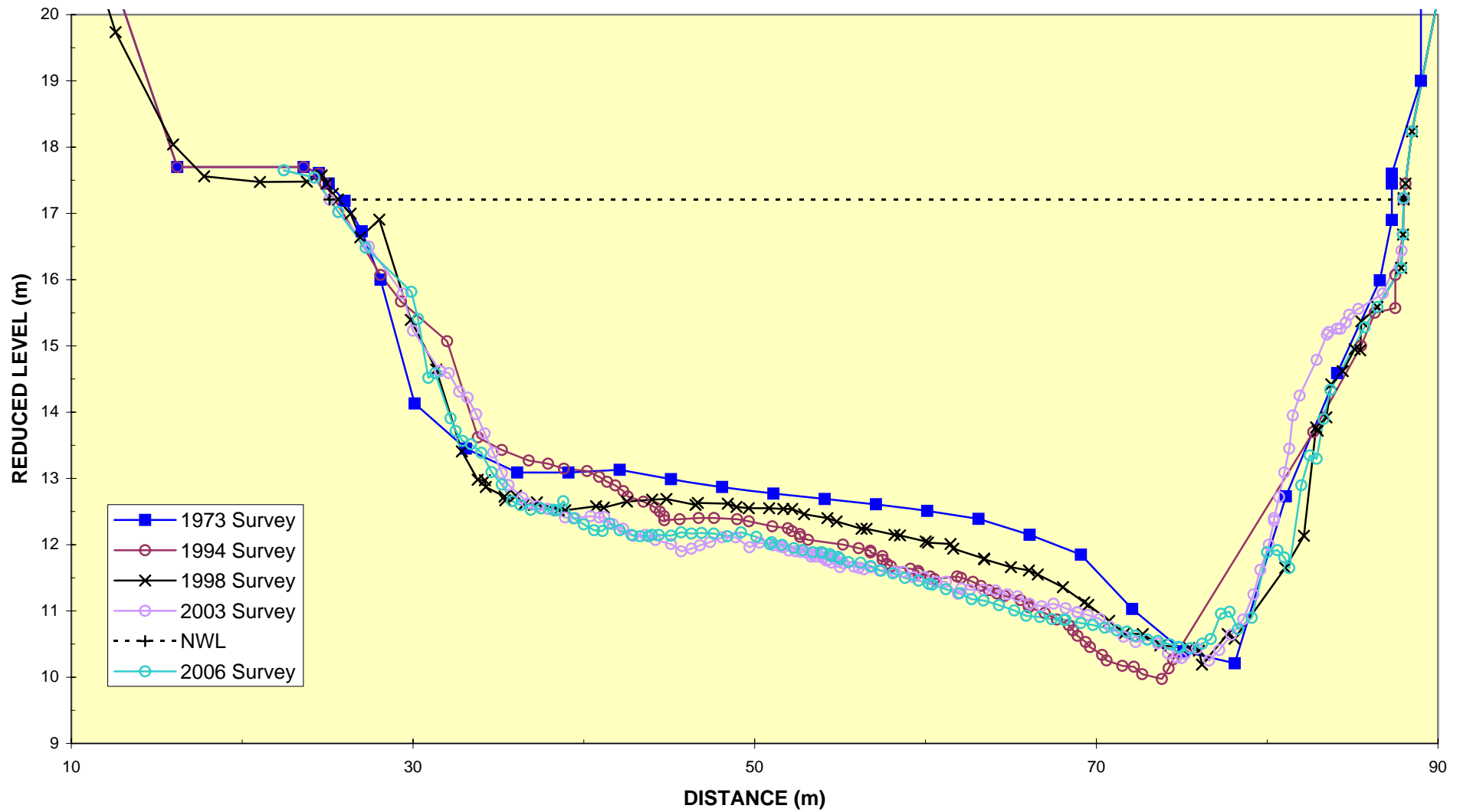
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 165A



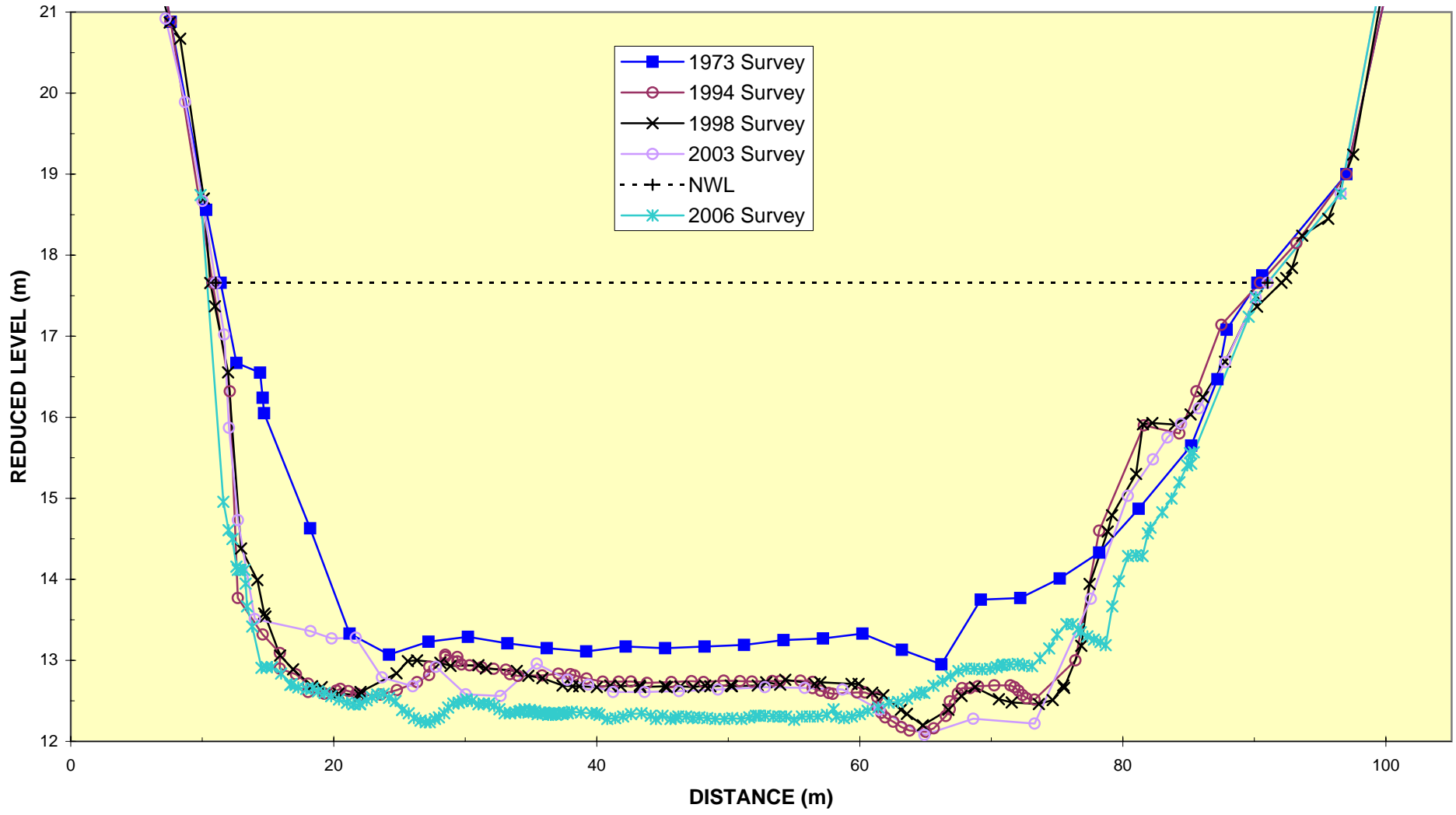
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 166



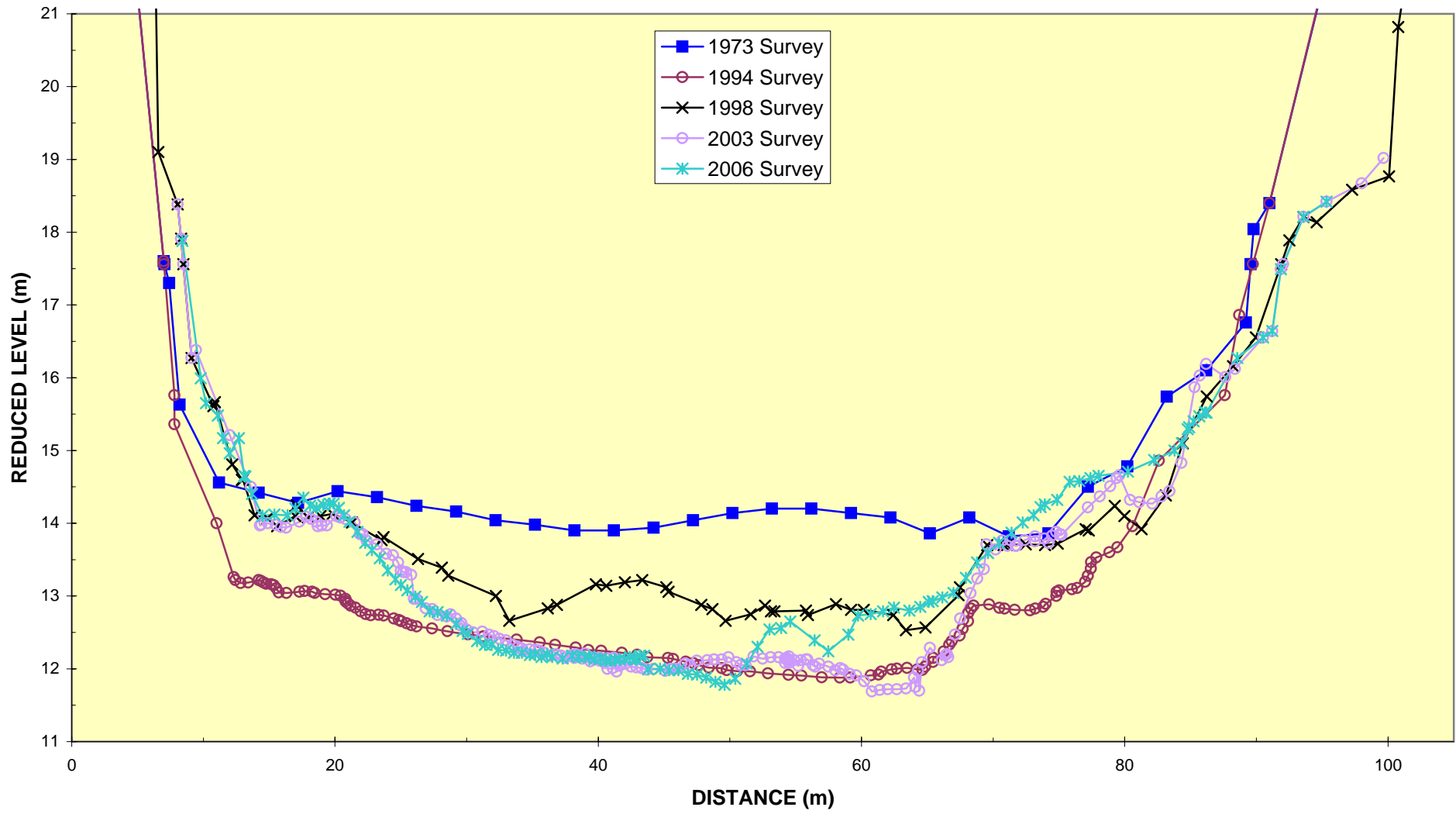
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 167



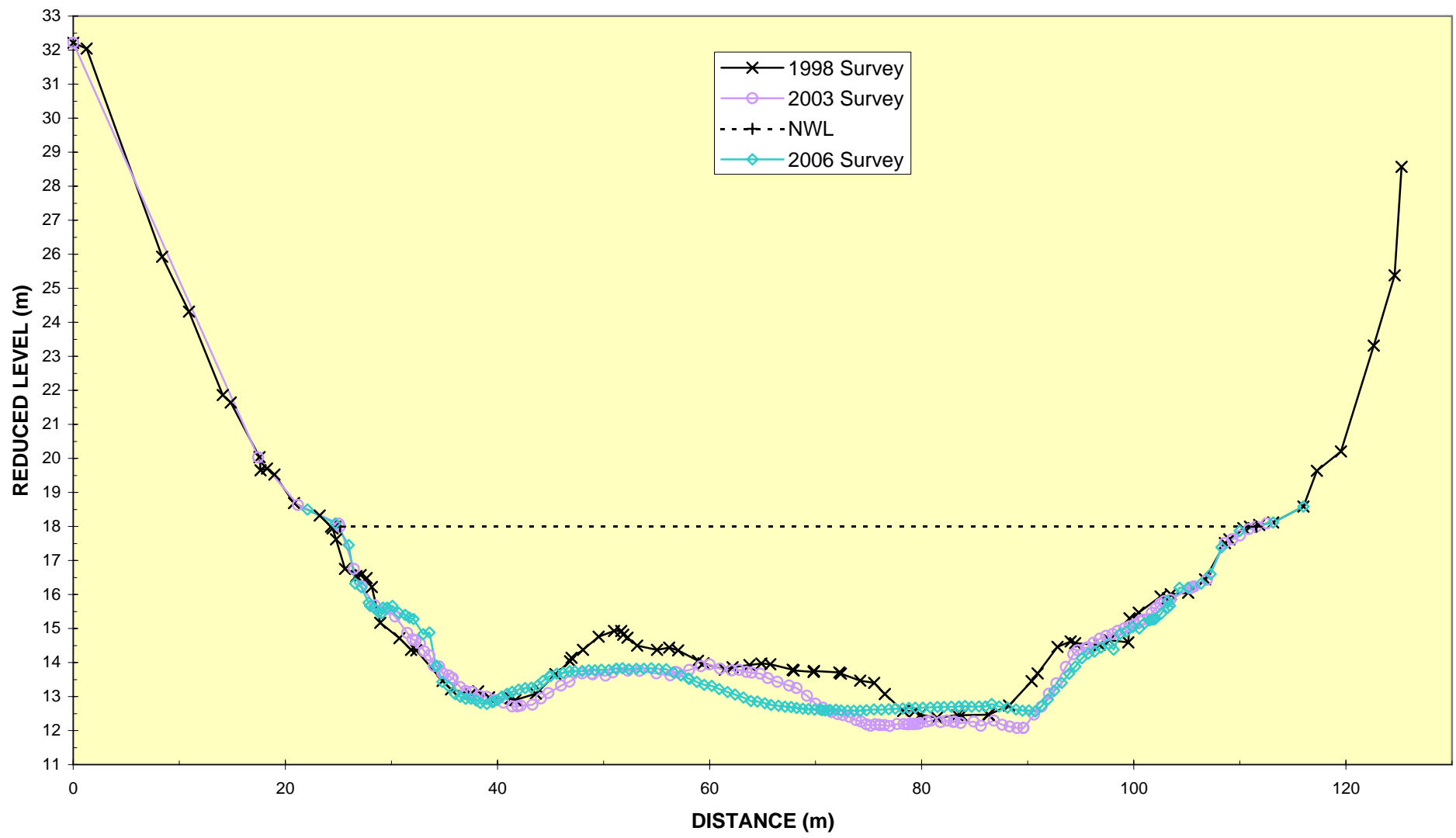
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 168



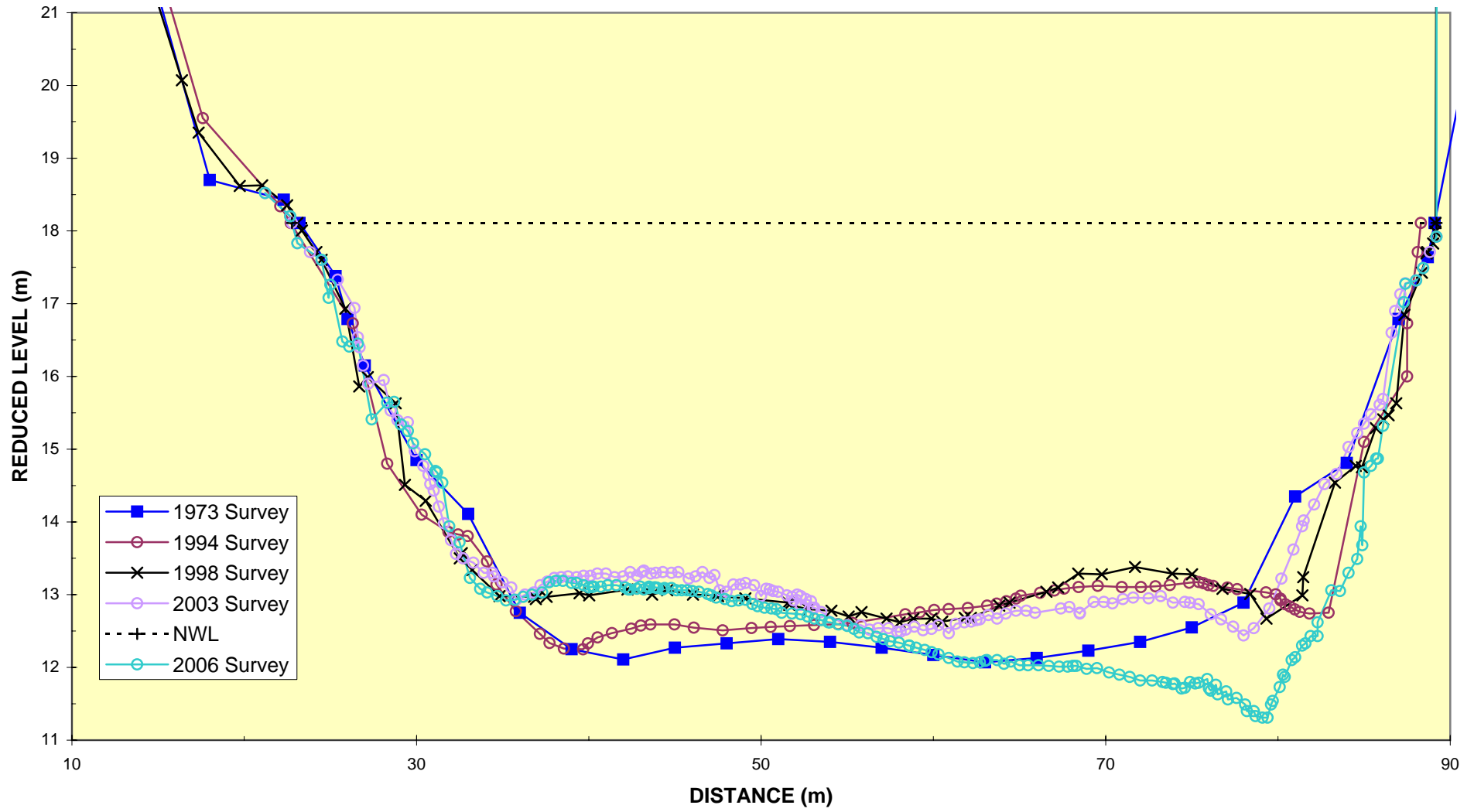
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 169



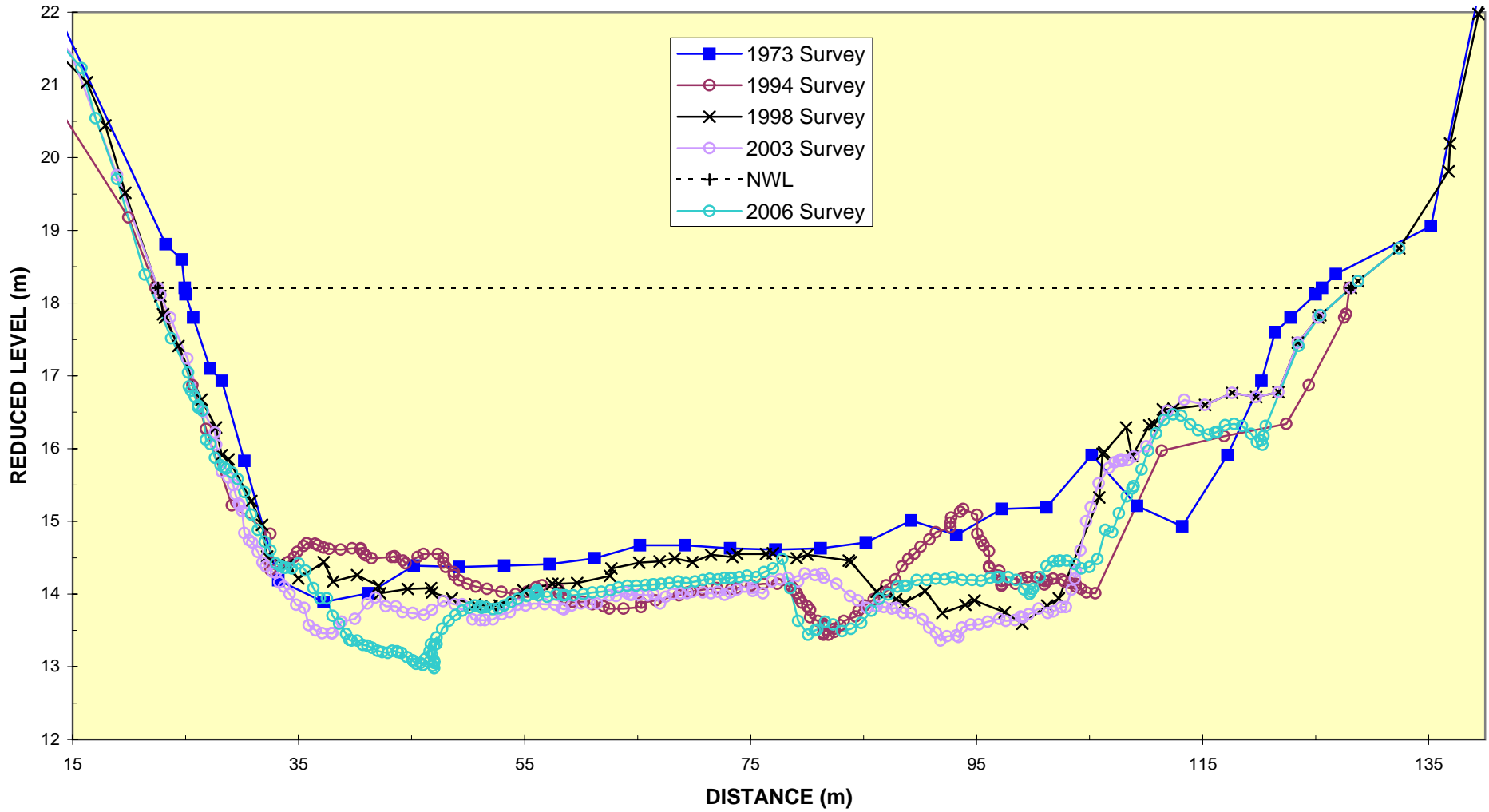
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 169A



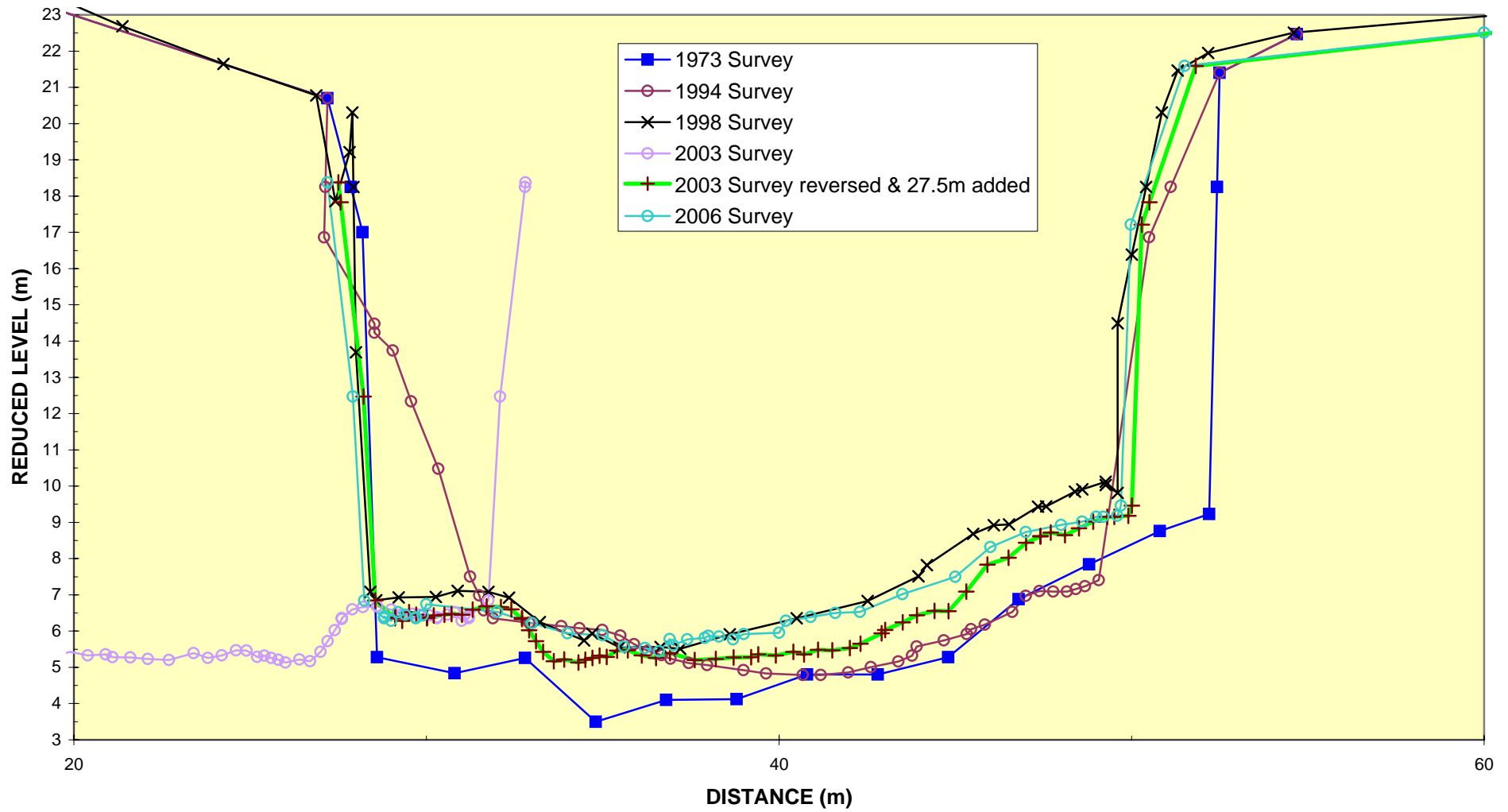
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 170



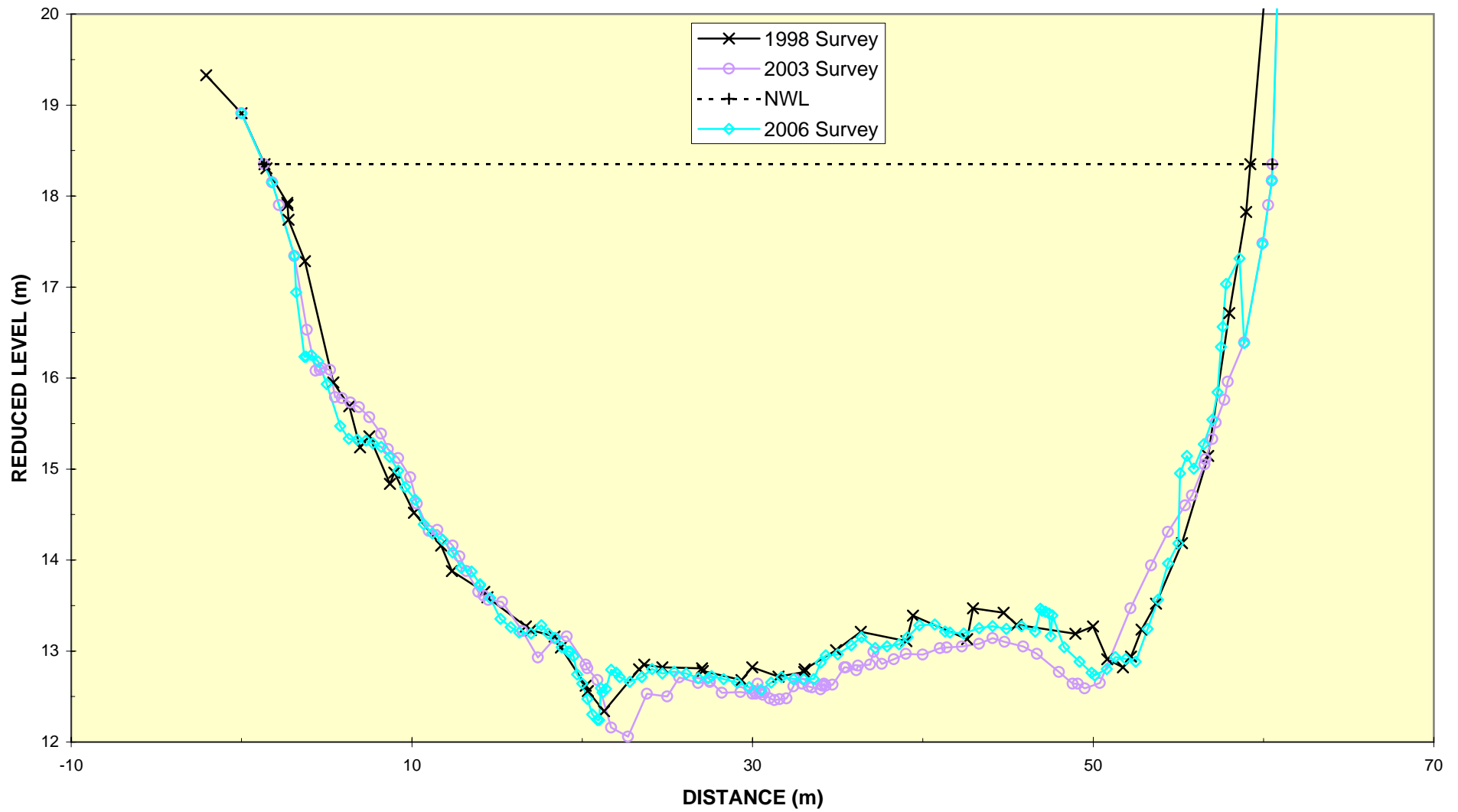
**ENVIRONMENT WAIKATO
WAIKATO RIVER : CROSSECTION 171
Wastewater Treatment Station**



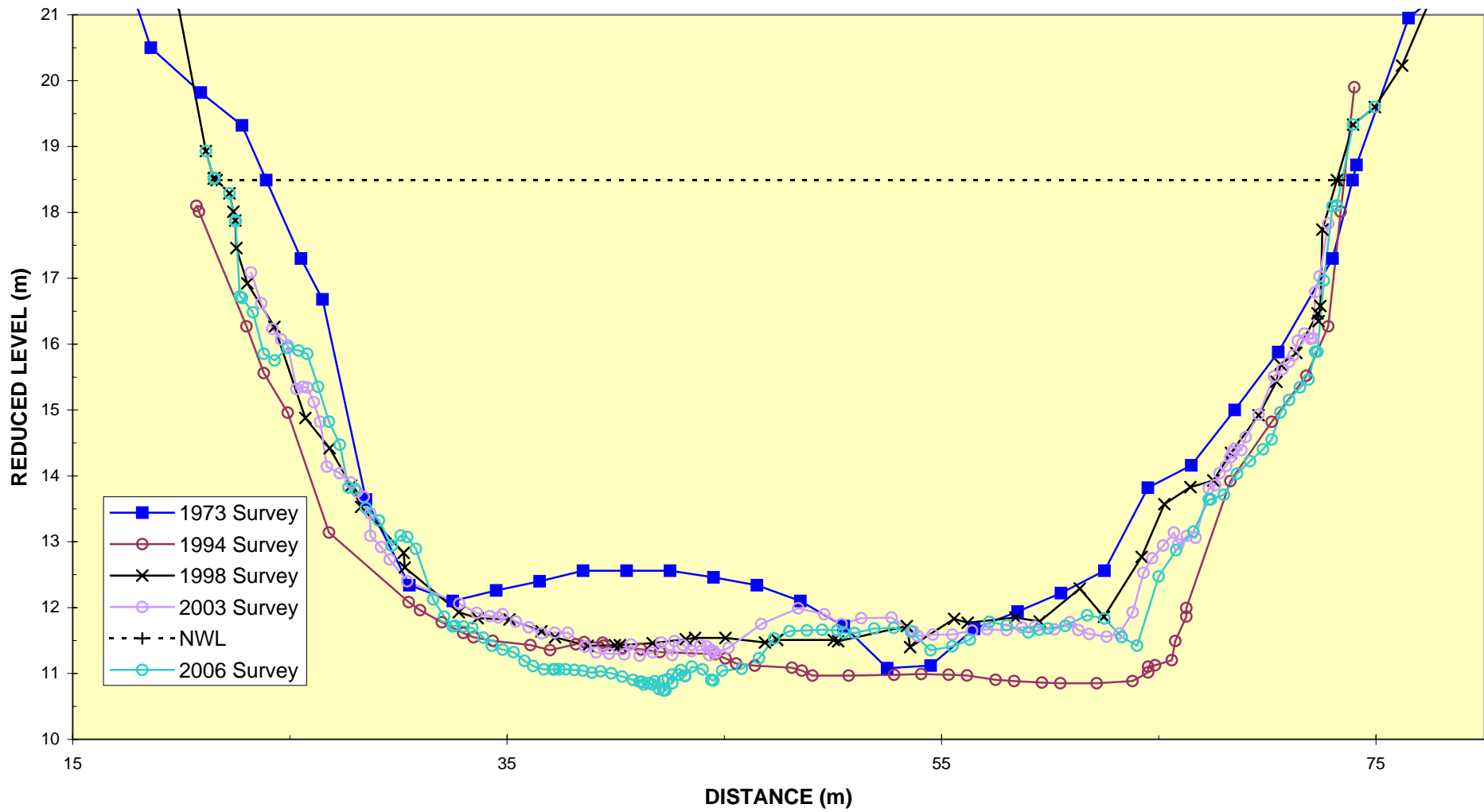
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 172



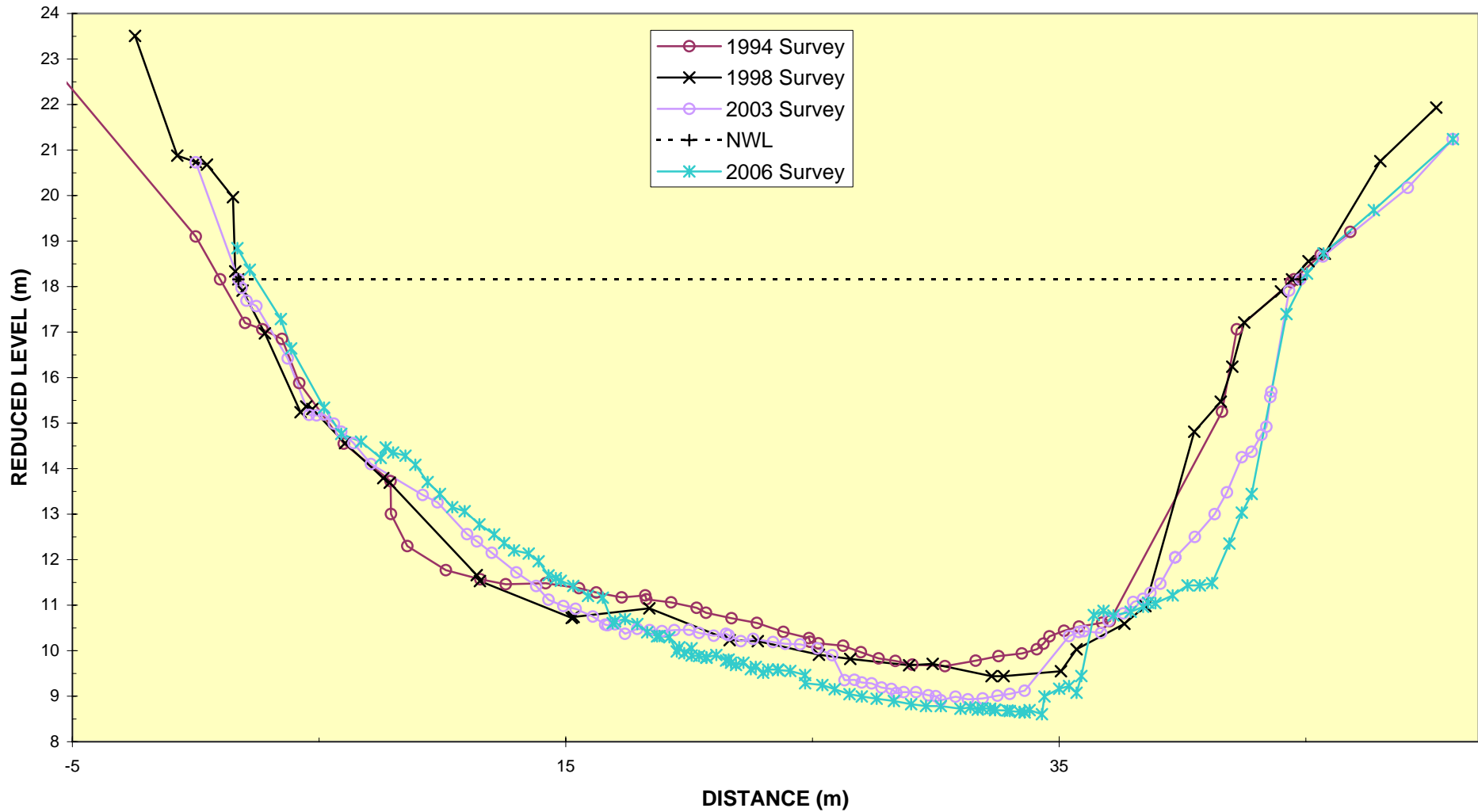
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 172A



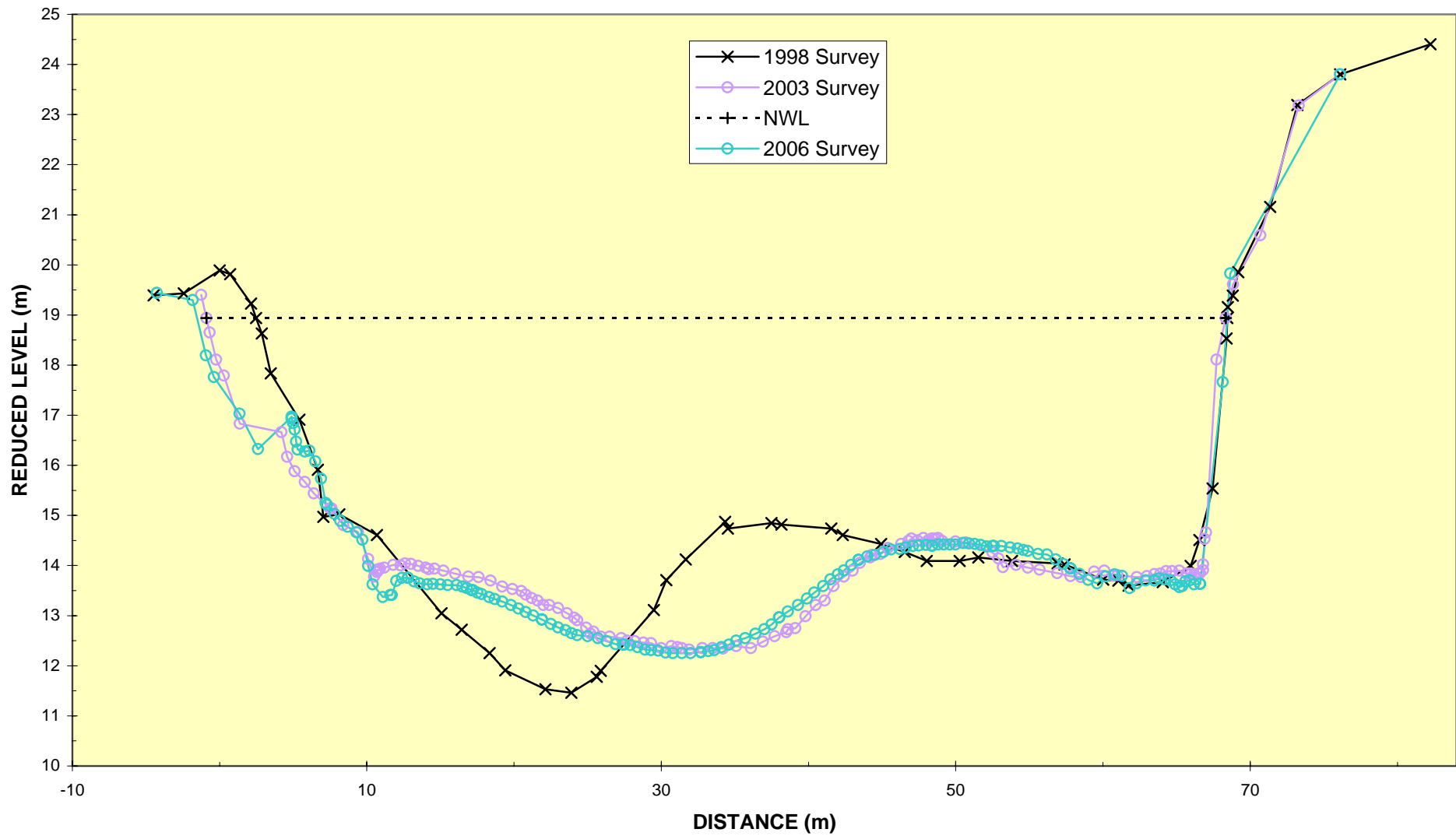
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 173



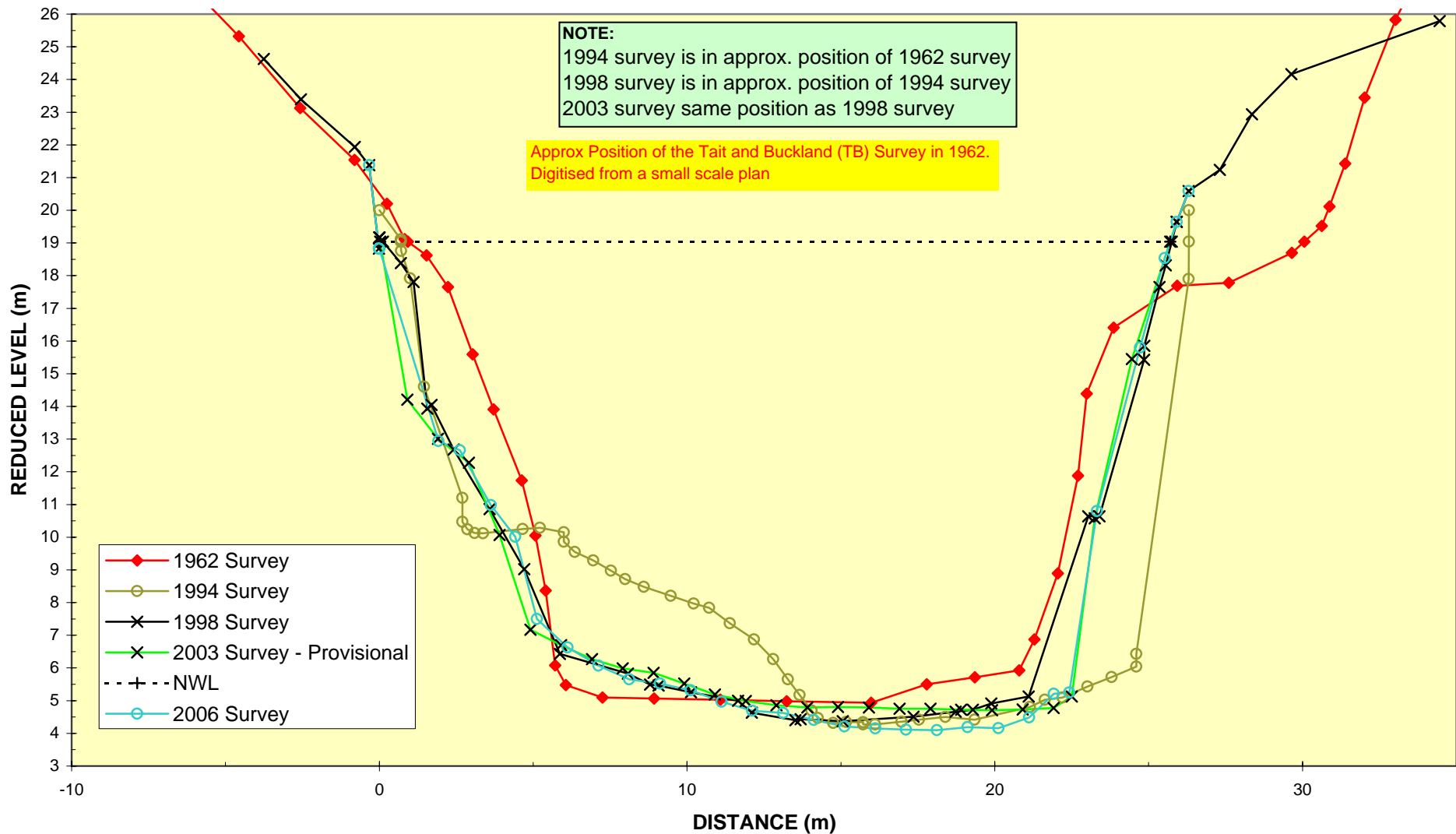
**ENVIRONMENT WAIKATO
WAIKATO RIVER : CROSSECTION 173B
Cambridge Sewer Bridge**



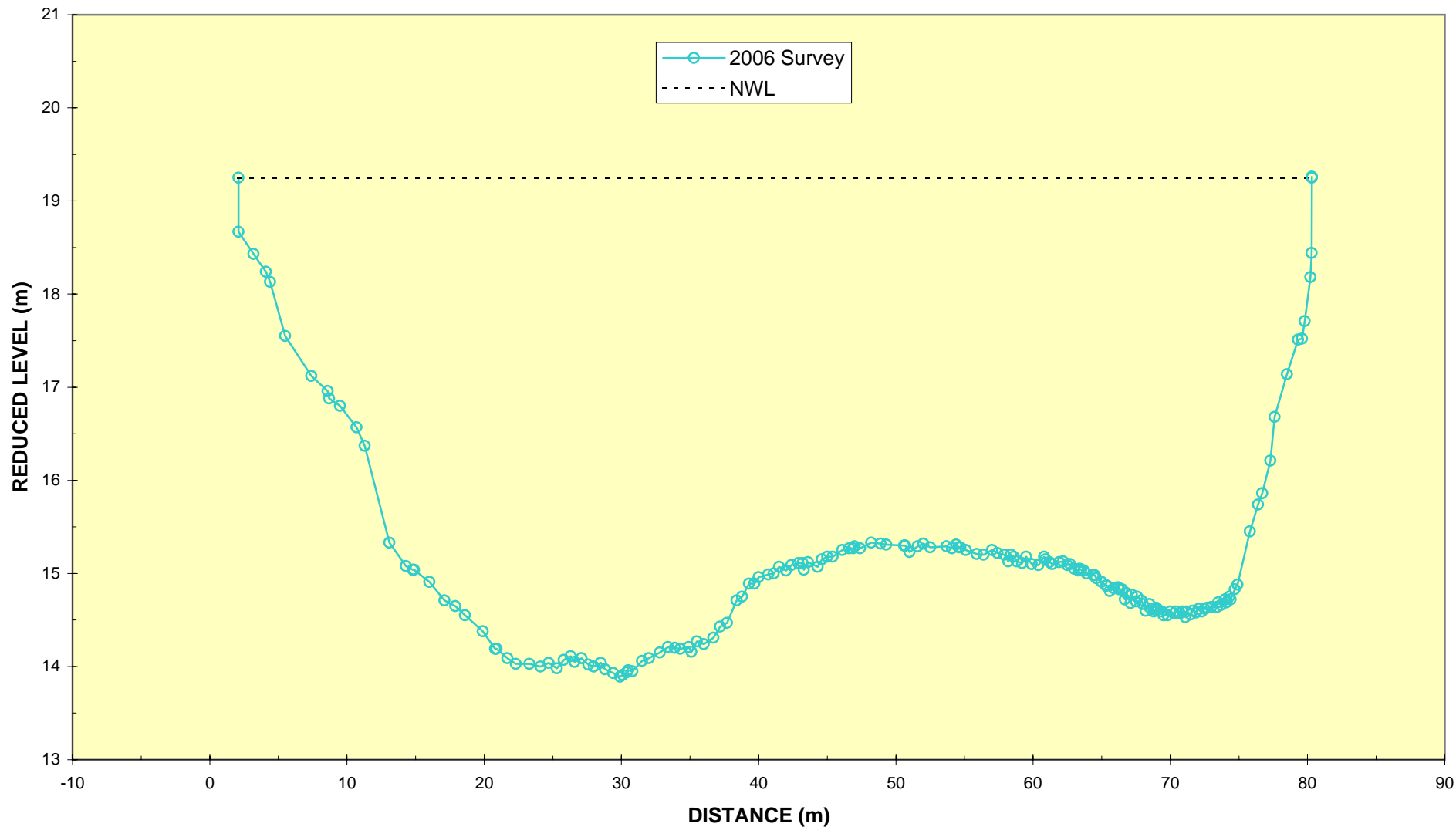
ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION 174A



ENVIRONMENT WAIKATO WAIKATO RIVER : CROSSECTION "TB"17 (Between Cambridge and Karapiro Dam)

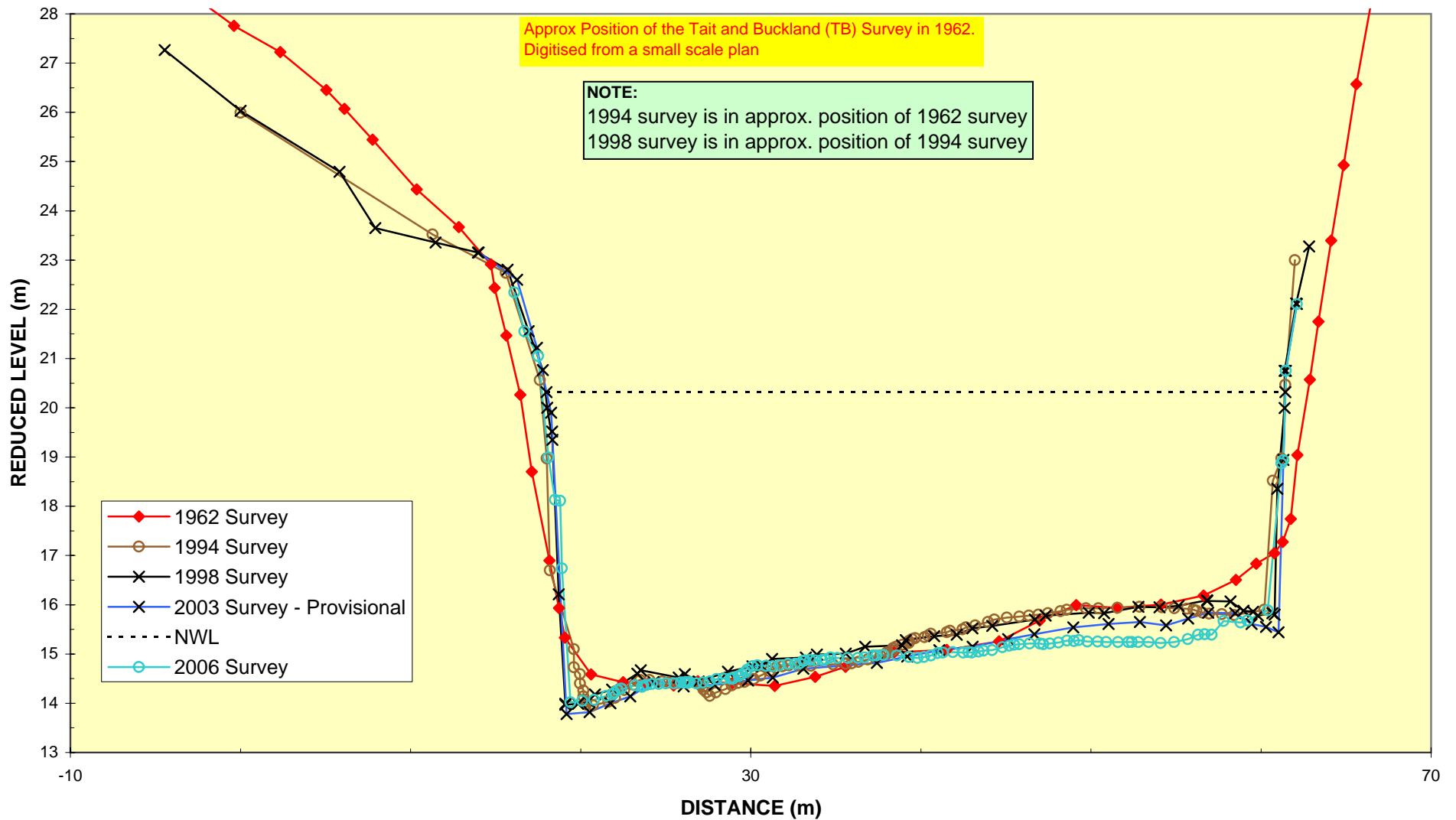


**ENVIRONMENT WAIKATO
WAIKATO RIVER : CROSECTION "TB"16G
(Between Cambridge and Karapiro Dam)**



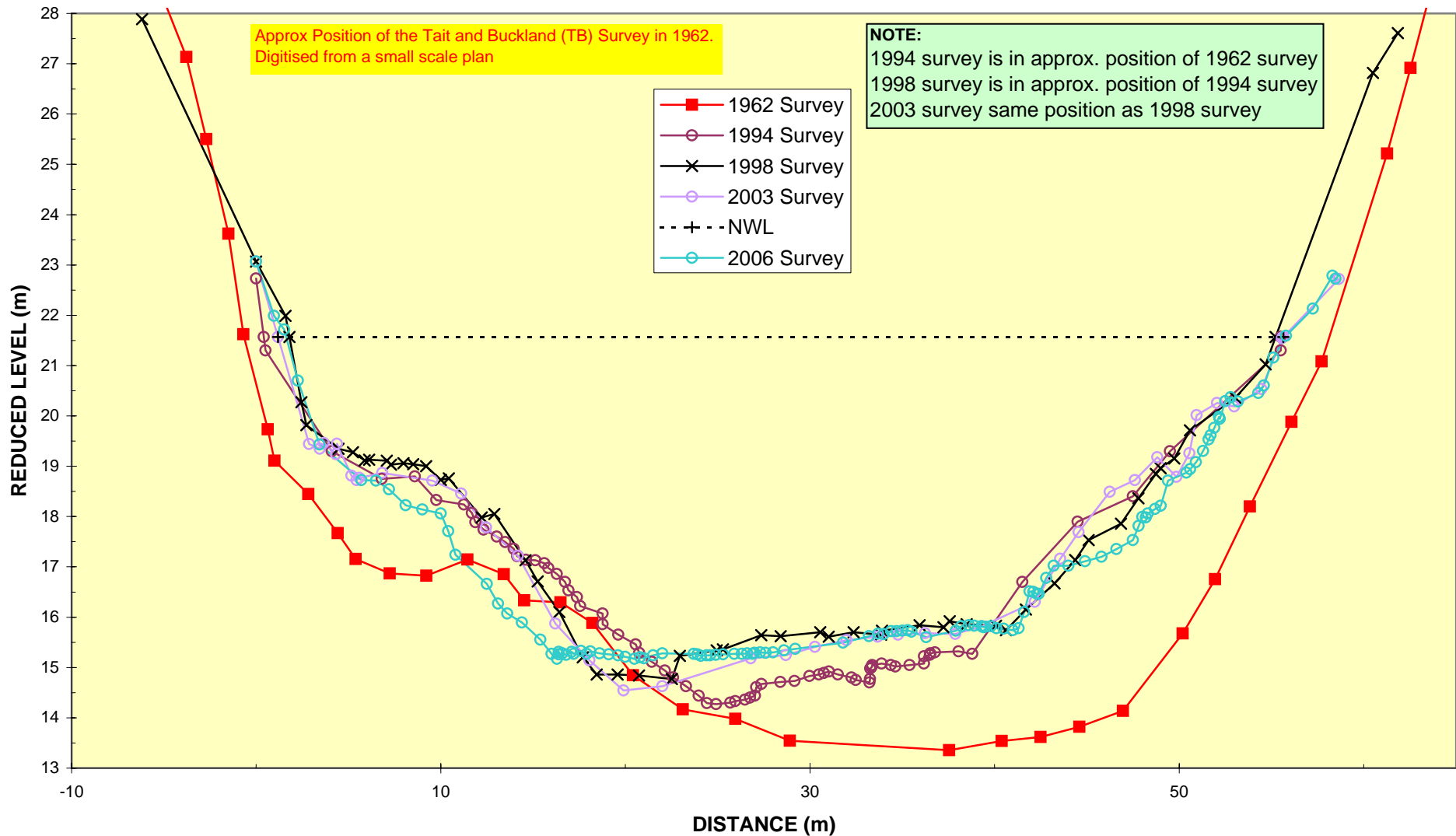
ENVIRONMENT WAIKATO

WAIKATO RIVER : CROSSECTION "TB"10 (Between Cambridge and Karapiro Dam)



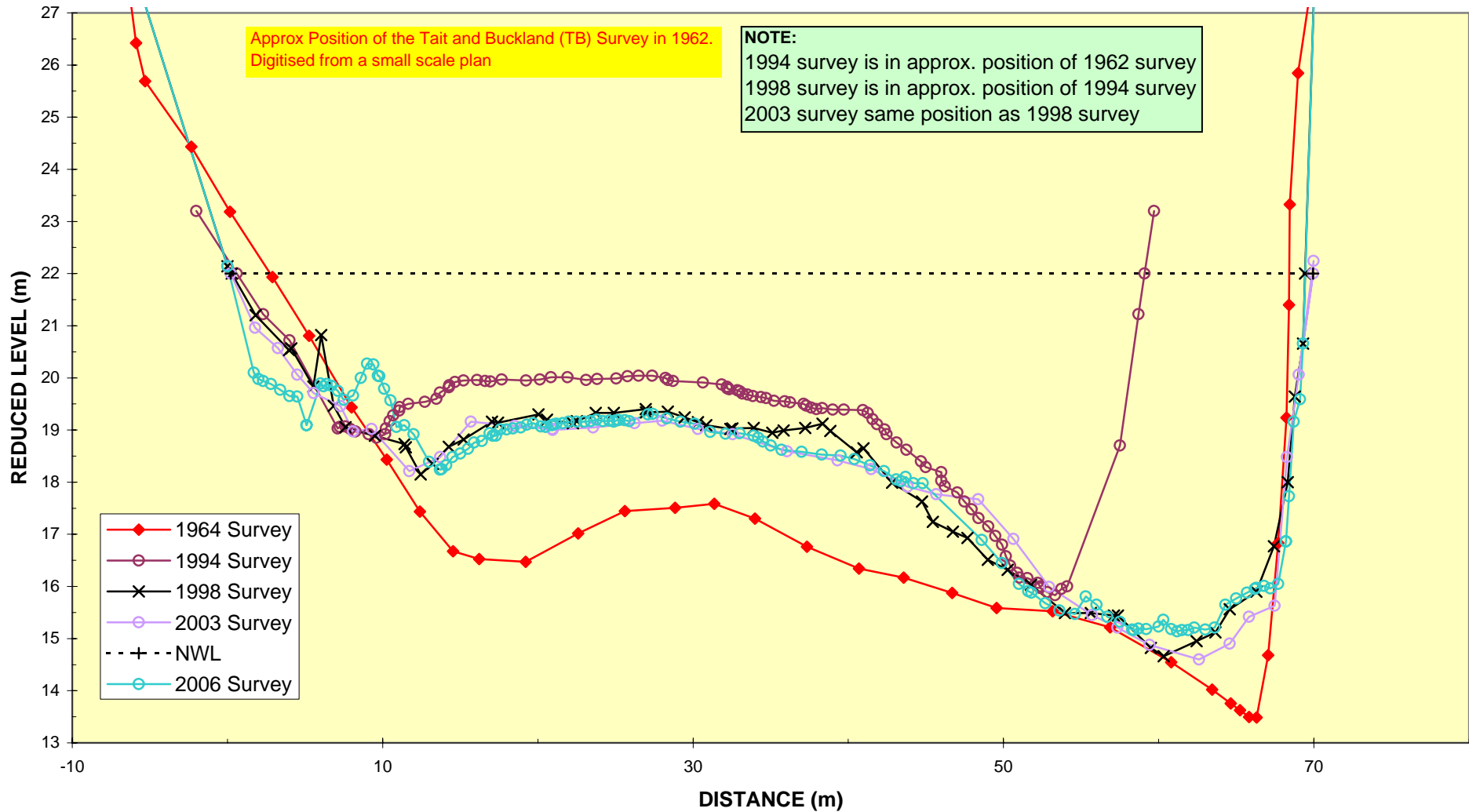
ENVIRONMENT WAIKATO

WAIKATO RIVER : CROSSECTION "TB" 5 (Between Cambridge and Karapiro Dam)



ENVIRONMENT WAIKATO

WAIKATO RIVER : CROSSECTION "TB" 3 (Between Cambridge and Karapiro Dam)



Appendix C: Summary Tables

Mean Bed Levels

X-section	Chainage	1933	1951	1958	1963 (62)	1973 (74/76)	1987/ 88	1994	1998	2002 / 03	2006
133	95.881				6.66	6.50	6.94		6.18	6.11	6.16
133A	96.071								7.48	7.26	7.31
133B	97.031								7.25	7.19	7.13
134	97.542				8.76	8.70	8.45		8.41	8.26	8.03
134A	98.042								5.92	5.93	5.76
134B	98.622								7.84	7.71	7.61
135	99.152				8.30	8.39	8.07		7.97	7.62	7.54
135A	99.972								7.60	7.62	7.57
135B	100.71								7.34	7.48	7.35
136	101.356				8.80	8.75	8.28		8.23	8.09	7.78
136A	102.026								8.36	8.40	8.18
137	102.66				4.88	4.93	5.26		4.15	3.75	3.31
137A	103.29								5.95	5.27	5.42
138	104.028					9.09	8.67		8.51	8.31	8.12
138A	104.368								7.88	7.78	7.84
139	105.235					8.47	7.74		7.40	7.18	7.04
139A	105.415										
139B	105.705								8.35	8.16	8.17
140	106.506					8.28	7.78		7.67	7.28	7.35
141	107.279					9.20	8.92		8.98	8.45	8.35
141A	107.449								8.18	8.08	8.24
142	108.116					9.64	9.32		9.19	9.09	8.87
142A	108.467										8.33
143	108.759					8.49	8.10		7.79	7.59	7.55
143A	109.479								7.99	7.78	7.75
144	110.111					9.67	9.55		9.62	9.39	9.18
145	110.53					7.51	6.24		5.79	5.45	5.63
145Y	110.974									7.45	7.72
145Z	111.046									7.33	
146	111.173					8.66	8.47		8.35	7.93	8.07
146A	111.433								9.98	9.76	9.88
146B	111.803								8.49	8.39	8.46
147	112.429					9.31	8.34		8.30	7.64	7.67
148	113.523	10.42			10.52	9.76	9.42		9.34	9.23	8.95
148A	113.81								9.66	9.64	9.40
149	114.312					10.11	9.54		9.30	8.91	8.81
149A	114.737								8.91	8.68	8.79
150	115.342						9.73		9.62	9.61	9.41
150A	115.822								10.15	10.24	10.19
151	116.275				10.90	10.72	10.17	9.95	10.05	9.83	9.68
151A	116.375								10.41	10.29	10.29
152	117.257				9.53	7.47	7.00	6.48	6.63	6.66	6.74
152A	117.527								9.96	9.75	9.74
152B	117.727								7.88	7.02	7.36
152Z	117.767									7.30	
152C	118.017								9.83	9.57	9.43
153	118.367						9.05	8.81	8.72	7.60	8.26
153A	118.577								10.89	10.80	10.60
153Z2	118.748										9.93
153Z	118.761									8.60	
153B	118.882								9.15	8.91	8.91
154	119.213					8.62	8.96	8.76	8.79	8.43	8.29
154A	119.548								10.72	10.51	10.45
154B	120.068								9.82	9.90	9.93
155	120.486					9.19		9.12	8.43	8.39	8.31
155A	120.801								10.73	10.43	10.20
156	121.375					10.65		10.90	10.28	10.27	10.26
156A	121.995								10.70	10.45	10.61
157	122.442					11.33		10.87	11.06	10.99	10.66
157A	123.332								10.28	10.42	10.27

X-section	Chainage	1933	1951	1958	1963 (62)	1973 (74/76)	1987/ 88	1994	1998	2002 / 03	2006
157G	123.741										10.22
157B	124.352								11.81	11.56	11.89
158	124.868					10.95		10.55	10.97	10.83	11.02
158A	125.458								11.68	11.56	11.73
158G	125.731										12.06
159A	125.951					11.31		10.71	11.32	10.75	10.76
159	126.326		9.795	8.413	6.78	7.16	5.48	6.04	5.79	5.75	5.88
160	126.634					12.36		12.04	12.31	12.19	12.39
160A	126.874										
161	127.205										
161A	127.55								10.61	10.08	10.47
161B	128.12								10.96	11.02	11.32
162	128.399					11.59		11.35	11.57	11.65	11.39
162A	129.079								11.65	11.27	11.28
163	129.313					10.84		10.14	9.79	10.08	10.01
164	129.764					13.22		13.32	12.85	12.93	12.53
164A	130.38										
165	130.894					12.42		12.18	12.28	12.02	12.17
165A	131.384								11.89	12.04	12.09
166	132.1					13.88		13.36	13.39	13.27	13.28
166A	132.82										
167	133.573					12.92		12.73	12.70	12.82	12.51
167A	134.433										
168	134.802					13.95		13.37	13.46	13.34	13.10
168A	135.662										
169	136.282					14.41		12.97	13.73	13.38	13.53
169A	136.74								14.22	13.87	13.90
170	137.425					13.37		13.43	13.66	13.72	13.23
170A	137.855										
171	138.06					15.06		14.80	14.95	14.71	14.72
172	138.308					5.86		7.66	7.53	6.99	7.37
172A	138.878								13.81	13.76	13.83
172B	139.11										
173	139.707					13.22		12.27	12.85	12.74	12.61
173B	140.881							12.21	11.92	11.73	11.50
173C	141.661										
174	141.771				14.32	14.75	14.62	14.45	14.45	14.45	14.48
174A	142.361								14.03	14.01	14.00
175	142.49										
17+	142.648				9.99			7.66	7.83	7.64	7.57
16G+	142.937										15.20
16+	143.267				14.22			14.22	14.67	14.23	14.07
TB15	143.91								15.57	15.01	14.92
TB14	144.07										
TB13	144.29										
TB12	144.51										
TB11	144.71										
10+	145.1										15.11
TB9	145.7										
TB8	146.29										
7+	146.68							15.76	15.84	15.70	15.69
TB6	147.07										
5+	147.44							17.16	17.16	17.13	16.91
TB4	147.84										
3+	148.25							19.19	18.08	18.03	18.03

Thalweg Levels

X-section	Chainage	1933	1951	1958	1963 (1962)	1973 (74/76)	1987/ 88	1994	1998	2002 / 03	2006
133	95.881				4.06	3.64	4.01		3.37	3.23	3.46
133A	96.071								6.22	5.96	5.87
133B	97.031								4.34	4.41	4.27
134	97.542				7.17	6.63	6.58		6.68	6.26	5.86
134A	98.042								1.11	1.28	0.92
134B	98.622								5.85	6.16	6.41
135	99.152				6.28	6.28	6.59		5.98	5.83	5.28
135A	99.972								5.88	5.82	5.83
135B	100.71								6.32	6.34	6.00
136	101.356				8.14	7.39	7.22		7.21	6.81	6.31
136A	102.026								6.81	6.60	6.39
137	102.66				1.95	1.54	1.81		0.81	-0.04	-0.08
137A	103.29								2.32	2.30	2.38
138	104.028					7.95	8.06		7.39	7.14	6.96
138A	104.368								6.64	6.28	6.50
139	105.235					5.97	4.17		2.15	2.33	1.52
139A	105.415										
139B	105.705								6.04	5.93	5.81
140	106.506					7.03	6.05		4.98	4.61	4.70
141	107.279					7.58	7.51		6.95	6.53	6.33
141A	107.449								5.53	5.90	4.80
142	108.116					8.31	7.84		7.88	7.30	6.87
142A	108.467										5.10
143	108.759					7.37	6.86		5.81	5.81	5.89
143A	109.479								6.34	6.12	6.20
144	110.111					8.55	8.36		8.54	8.27	7.91
145	110.53					4.72	3.66		2.04	1.41	1.40
145Y	110.974									4.28	4.24
145Z	111.046									5.53	
146	111.173					7.51	6.95		6.28	6.04	5.98
146A	111.433								8.03	7.51	7.49
146B	111.803								5.08	4.74	4.99
147	112.429								4.78	4.44	4.77
148	113.523	9.76			9.60	8.16	7.62		7.60	7.11	7.18
148A	113.81								8.51	8.69	7.98
149	114.312					8.92	7.63		5.76	5.69	8.22
149A	114.737								7.18	7.15	7.36
150	115.342						8.40		8.17	8.22	8.08
150A	115.822								9.44	8.99	8.84
151	116.275				9.69	9.41	8.34	7.18	7.44	6.70	6.42
151A	116.375								8.94	8.78	8.80
152	117.257				6.31	6.82	1.60	1.29	1.63	1.42	1.64
152A	117.527								8.61	8.32	8.40
152B	117.727								2.20	1.13	1.53
152Z	117.767									2.37	
152C	118.017								6.04	5.69	5.22
153	118.367						4.10	3.22	3.81	3.64	2.90
153A	118.577								9.36	9.16	8.98
153Z2	118.748										7.87
153Z	118.761									5.68	
153B	118.882								6.16	5.20	5.45
154	119.213					6.38	7.19	6.75	7.06	6.82	6.45
154A	119.548								8.07	7.56	7.95
154B	120.068								6.31	6.53	5.69
155	120.486					4.02		4.89	5.11	4.91	4.51
155A	120.801								8.27	8.61	8.28
156	121.375					9.01			7.21	7.26	7.54
156A	121.995								9.89	9.58	9.69
157	122.442					10.22		8.83	9.35	9.13	8.73
157A	123.332								6.81	6.70	6.92

X-section	Chainage	1933	1951	1958	1963 (1962)	1973 (74/76)	1987/ 88	1994	1998	2002 / 03	2006
157G	123.741										4.54
157B	124.352								10.42	10.05	10.58
158	124.868					8.38		7.85	7.76	7.65	8.09
158A	125.458								8.94	8.50	9.03
158G	125.731										9.35
159A	125.951					7.60		5.50	5.76	5.17	5.42
159	126.326		7.129	5.941	4.02	5.36	4.34	3.24	3.86	3.44	4.10
160	126.634					10.44		10.25	10.38	9.95	10.31
160A	126.874										
161	127.205										
161A	127.55								8.14	6.27	7.58
161B	128.12								7.85	8.53	7.25
162	128.399					9.70		10.25	9.99	9.84	9.43
162A	129.079								8.40	7.06	7.05
163	129.313					7.40		7.10	5.26	6.23	6.39
164	129.764					10.98		10.21	9.90	9.76	9.59
164A	130.38										
165	130.894					10.27		10.93	11.36	11.18	11.41
165A	131.384								9.00	9.37	9.56
166	132.1					12.54		11.53	11.32	11.46	11.64
166A	132.82										
167	133.573					10.21		9.97	10.19	10.25	10.44
167A	134.433										
168	134.802					12.95		12.12	12.20	12.08	12.24
168A	135.662										
169	136.282					13.82		11.88	12.53	11.69	11.78
169A	136.74								12.38	12.07	12.56
170	137.425					12.07		12.25	12.62	12.44	11.31
170A	137.855										
171	138.06					13.89		13.44	13.59	13.36	12.98
172	138.308					3.50		4.79	5.51	5.13	5.44
172A	138.878								12.34	12.06	12.24
172B	139.11										
173	139.707					11.08		10.85	11.40	11.27	10.74
173B	140.881								9.44	8.91	8.60
173C	141.661										
174	141.771				13.26	13.54	13.41	13.34	13.41	13.36	13.38
174A	142.361								11.46	12.32	12.25
175	142.49										
17+	142.648				4.94			4.27	4.37	4.71	4.10
16G+	142.937										13.89
16+	143.267				12.77			12.58	12.07	11.58	11.91
TB15	143.91								10.92	10.54	10.52
TB14	144.07										
TB13	144.29										
TB12	144.51										
TB11	144.71										
10+	145.1										14.02
TB9	145.7										
TB8	146.29										
7+	146.68				15.87			11.77	11.88	12.07	11.73
TB6	147.07										
5+	147.44							14.27	14.77	14.55	15.17
TB4	147.84										
3+	148.25							15.83	14.66	14.60	15.14

Cross Section Areas [square metres]

X-section	Chainage	1933	1951	1958	1963 (1962)	1973 (74/76)	1987/ 88	1994	1998	2002 / 03	2006
133	95.881				322	341	300		367	375	371
133A	96.071								430	454	445
133B	97.031								377	383	386
134	97.542				362	381	432		440	472	507
134A	98.042								335	333	346
134B	98.622								508	535	547
135	99.152				329	318	362		371	415	429
135A	99.972								395	392	399
135B	100.71								409	394	409
136	101.356				301	308	371		381	391	431
136A	102.026								431	425	453
137	102.66				283	265	228		305	344	362
137A	103.29								385	393	383
138	104.028					318	351		401	427	461
138A	104.368								392	413	404
139	105.235					251	321		343	361	379
139A	105.415										
139B	105.705								408	428	427
140	106.506					322	363		419	458	454
141	107.279					314	351		360	398	421
141A	107.449								371	381	362
142	108.116					345	381		403	418	446
142A	108.467										392
143	108.759					332	349		389	399	406
143A	109.479								398	419	413
144	110.111					360	368		378	398	421
145	110.53					200	251		296	312	306
145Y	110.974									426	404
145Z	111.046									389	
146	111.173					314	345		363	402	393
146A	111.433								472	507	487
146B	111.803								358	364	359
147	112.429					284	399		419	471	471
148	113.523	312			306	390	433		435	443	469
148A	113.81								386	388	416
149	114.312					379	440		496	546	440
149A	114.737								415	432	426
150	115.342						347		349	349	361
150A	115.822								465	455	459
151	116.275				255	268	315	335	337	350	361
151A	116.375								447	452	454
152	117.257				229	349	365	412	386	384	377
152A	117.527								375	394	393
152B	117.727								322	322	318
152Z	117.767									381	
152C	118.017								396	414	418
153	118.367						458	476	481	583	506
153A	118.577								425	442	442
153Z2	118.748										433
153Z	118.761									567	
153B	118.882								338	350	352
154	119.213					373	358	372	372	396	404
154A	119.548								421	444	451
154B	120.068								374	362	364
155	120.486					372		382	414	411	419
155A	120.801								351	390	417
156	121.375					411		372	448	452	450
156A	121.995								372	394	380
157	122.442					368		415	397	410	426
157A	123.332								362	351	362

X-section	Chainage	1933	1951	1958	1963 (1962)	1973 (74/76)	1987/ 88	1994	1998	2002 / 03	2006
157G	123.741										441
157B	124.352								375	399	367
158	124.868					351		376	349	374	376
158A	125.458								353	363	348
158G	125.731										345
159A	125.951					317		360	324	350	363
159	126.326		188	210	274	257	296	275	273	275	271
160	126.634					405		460	421	425	415
160A	126.874										
161	127.205										
161A	127.55								521	566	536
161B	128.12								398	396	411
162	128.399					311		312	312	321	324
162A	129.079								305	328	324
163	129.313					295		332	360	347	350
164	129.764					325		313	360	354	393
164A	130.38										
165	130.894					310		341	330	355	344
165A	131.384								404	410	408
166	132.1					314		367	355	367	366
166A	132.82										
167	133.573					282		299	300	291	314
167A	134.433										
168	134.802					293		342	342	346	367
168A	135.662										
169	136.282					260		380	319	350	336
169A	136.74								326	356	354
170	137.425					312		307	294	291	324
170A	137.855										
171	138.06					317		360	344	370	371
172	138.308					304		254	241	261	252
172A	138.878								263	272	267
172B	139.11										
173	139.707					263		328	291	294	305
173B	140.881							259	267	277	283
173C	141.661										
174	141.771				242	226	227	245	248	249	248
174A	142.361								324	342	346
175	142.49										
17+	142.648				264			291	287	293	295
16G+	142.937										317
16+	143.267				313			287	268	288	304
TB15	143.91								268	304	310
TB14	144.07										
TB13	144.29										
TB12	144.51										
TB11	144.71										
10+	145.1										228
TB9	145.7										
TB8	146.29										
7+	146.68							335	325	332	335
TB6	147.07										
5+	147.44							243	235	242	252
TB4	147.84										
3+	148.25							164	271	277	275