

Structure	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/O	Box	Pipeline	Misc.							
1	0					Intake		Starts structure No. 1 from Chatto Creek Waterway: 1.22 m to 1.5 m wide x 305 mm to 457 mm deep Capacity: 6-15 cumecs Rough stone built intake 20 m long in creek	Willow roots around structure				
2	50				P/L			Steel pipe set in concrete control bywash. Pipe 900 mm long 1 m diam. reducing to 900 mm	LHS LHS		50		
3	90					Control		Control gate					
4	270					Outlet		Concrete spillway outlet					
5	300					Drop	Poor	Concrete measuring box 750 mm in race M/B 500 mm in race 600 mm	Will be replaced in 1985 with inlet improvements				
6	360					Bywash		Open earth bywash	LHS				
7	530				P/L		Fair	Steel pipes in race 19.2 m x 610 mm Flood channels over pipes	To be replaced with 750 RCRRJ pipes				
8	810						Fair	Bridge, steel plate on hardwood bearers 2.74 m x 1.22 m					
9	1100				P/L		Fair	Steel pipe line in race 19.2 m x 762 mm	Flood channels over pipes. To be replaced with 750 RCRRJ pipes 1985		51		
10	1430					Conc. Box	Fair	Concrete box culvert under flood channel 3.7 m x 1.22 m wide x 762 mm high Concrete parapets 9.1 long x 762 mm high in channel water over culvert	Will be replaced with 750 RCRRJ pipes 1985 Presently restricts race capacity				

REASSESSMENT

F SCHEME: MANUHERIKIA

RACE: BOROUGH RACE

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No.	Dist. (m)	I		E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/O	Pipeline	Misc.							
11	1650			P/L			Good	23 m x 750 mm RC pipes laid in race	Flood channel			
12	1900			P/L			Fair	Steel pipeline over race 15 m x 500 mm				
13	2350			P/L	Bywash		Fair	Steel pipe 6.4 m x 762 mm outlet automatic Bywash LH near head of syphon	Has drain plug hole in syphon bench near outlet. Concrete headwalls			
14	2380			P/L			Good	Concrete pipe syphon 80 m x 750 mm concrete inlet and outlet - new	<b>Minor!</b> Needs to be re-vegetated		52	
15	3210			P/L	Bywash Trough		Fair	Moderate sill erosion taking place Steel pipe automatic bywash near head of P/L under Chatto Creek syphon 3.7 m x 914 mm plus flood outfall	Flood outfall trough Needs replacing in position. Severe scouring has occurred at outlet		53	
16	3280							Concrete pipe 83 m x 750 mm	Concrete headwalls scheme Access to m/r + Pipeline			
17	3650							Concrete farm crossing 7.4 m x 750 mm	Farmer's			
18	3690			P/L			Fair	Steel pipe over race 6.4 m x 406 mm	Farmer's SCOTS DROP Intake from main			
19	3770			P/L			Fair	Steel pipe over race 5.5 m x 406 mm WOOD PLANK FOOT BRIDGE - HW FAIR				
20	3800				Intake		Good	Distrib. No. 2 concrete 450 mm				
21	4040				500 MB		Okay	Concrete M/B 500 mm LHS ✓	To ASHTON Property			
22	4250			P/L			Fair	Steel pipe over race 4.57 m x 177 mm	Farmer's			
23	4350						Poor	Steel pipe crossing 2.44 m x 914 mm ✓	Will be replaced?			
24	4370				500 MB		Okay	WOOD STOCK BRIDGE over Top line - Concrete M/B 500 mm LHS Waterway 1.8 m x 457 mm	COMPPELL Property To ASHTON Farm			
25	4400				500 MB		Okay	Concrete M/B 500 mm LHS ✓				
26	4600				508 MB		Okay	Concrete stop Concrete M/B 508 mm LHS ✓				

Dist. (m)	I		E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
	Acc-X	T/Obox	Pipeline	Misc.							
27 4700		508 MB				Okay	Concrete M/B 508 mm ✓ LHS	To Ashton Campbell's			
28 4820	/					Good	7.4 m x 750 mm concrete pipe ✓	Farmer's			
29 4850			P/L			Fair	Galv. pipe over race 5.5 m x 229 m ?	Farmer's			
30 4890			P/L			Fair	Steel pipe over race 4.57 m x 76 mm ?	Farmer's			
31 4930			P/L			Fair	Steel pipe over race 4.9 m x 76 mm ?	Farmer's			
32 4960		375 MB				Okay	Concrete M/B 375 mm ✓ LHS				
33 5130		300 MB				Okay	Gated 300 mm pipe T/O ?				
34 5240		500 MB				Okay	M/B 500 mm B. ✓ ASHTON BOUNDARY - CAMPBELL'S DRIVEWAY				
35 5260	/					Okay	Bridge 3.0 m x 1.5 m (wood)	- MASHTON -			
36 5520	Stock					Okay	Bridge 1.8 m x 1.22 m (wood)	GOOD CONCRETE REPAIRMENTS			
37 5560		500 MB				Bridge	Concrete M/B 500 mm ✓ LHS				
		508 MB					Concrete M/B 508 mm ✓ LHS				
38 5590				Stop			Concrete stop NEW				
39 5640			P/L			Fair	Steel pipe over race 3 m x 381 mm ✓	Farmer's			
40 5850	/					Bad	Bridge - wood 1.8 m x 1.22 m CONCRETE REPAIRMENTS	STOCK ✓ GOOD			
41 5900		500 MB				Bad	Concrete M/B 500 mm ✓ LHS	To be repaired			
42 6100		500 MB				Okay	M/B 500 mm ✓ LHS				
43 6120	/					Fair	Steel pipe crossing 6.4 m x 914 mm ✓				
44 6160			P/L			Fair	Steel pipe over race 3 m x 381 mm ✓	Farmer's			
45 6190	Farm					Okay	M/B 750 mm and stop and bridge (concrete) ✓ LHS				
46 6240			P/L			Fair	Steel pipe over race 3 m x 381 mm ✓	Farmer's			
47 6500		750 MB	P/L			Fair	Concrete pipe plus headframe outlet 3.7 m x 381 mm LHS. into 750 M/B →	To Distrib. No. 2 POUND GOSSETT ASHTON WOODS ROAD			

ID	Dis (m)	I		E	M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox								
48	6540		750 MB			Okay	Concrete M/B 750 mm and stop 12 m x 750 mm concrete pipe crossing	Under Moutere Road			
49	6750	Road				Okay	Concrete M/B 500 mm	Young Hill Creek		54	
50	6780		500 MB			Okay	Bywash 900 mm flood outlet with screw lift 900 mm control gate in race 5 m x 750 mm pipes Concrete pipe crossing 5.0 m x 610 mm	B. DUNCAN Farmers Scheme			
51	7150	Farm		P/L		Okay	Concrete M/B 508 mm LHS and concrete stop				
52	7200	/	500 MB		Stop	Okay	Concrete M/B 500 mm				
53	7420	/	500 MB			Okay	Concrete M/B 500 mm				
54	7500	Stock				Okay	1.5 m x 1.2 m wooden pool				
55	7970	/	500 MB			Okay	Concrete M/B 500 mm				
56	8030	/	500 MB			Poor	Bridge - wood deck on Railway Rails 3.7 m x 3.4 m	Not adjustable			
57	8180	/	500 MB			Fair	Steel pipe over race 6.4 x 4.57	Needs repair Cover Scum-out			
58	8280	/				Okay	Concrete pipe crossing 16.5 m x 914 mm Inlet - (concrete) Outlet - (concrete)	Farmer's Highway 85			
59	8330			P/L		Good	7.4 m x 750 mm concrete pipe				
60	8460	Farm				Poor	Concrete M/B 500 mm	Needs repair			
61	8590		500 MB			Okay	Concrete M/B 500				
62	8800		500 MB			Okay	Concrete pipe and headframe outlet 1.8 m x 305 mm to 500 M/B				
63	8960		500 MB			Okay	M/B 500 LHS and concrete stop				
64	9400		500 MB			Okay	Steel pipe beside bridge (wooden) 3 m x 330 mm	Farmer's			
65	9760	Farm		P/L		Okay					
66	10540										

Behind  
CTP House  
59

Stock access  
Farmer's

wood deck  
concrete  
nearby  
pool  
long spur

Dist. (m)	I			E		Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
	Acc-X	T/O	box	Pipeline	Misc.						
67 11,200		500 MB			Stop	Good	Concrete M/B 500 Concrete stop	LHS  Concrete ABUTE Decking (good)			
68 11,620		500 MB				Good	M/B 500 Concrete stop and stock crossing	LHS Bridge			
69 12,100				P/L		Okay	Steel pipe over race 6.4 m x 381 mm	Farmer's			
70 12,250	Farm					Okay	Wooden 3 m x 3 m	Between this and next structure a lot of water enters race			
71 12,260				P/L		Okay	Steel pipe over race 4.9 m x 279 mm	OK Light vehicle			
72 12,630				P/L		Okay	Steel pipe over race 6 m x 3.30 mm				
73 12,690	/					Okay	7.4 m x 750 mm concrete pipe crossing	Access to air navigation site			
74 12,750	/					Fair	Old SH road culvert 7.3 m x 1.5 m x 609 m deep concrete and stone	Not used			
75 12,820	/					Okay	Concrete pipe crossing 12.2 m x 762 mm No headwalls	Under SH 85			
76 13,040		500 MB			Stop	Okay	Concrete M/B 500 Concrete stop	LHS ✓			
77 13,190		500 MB			Stop	Okay	Concrete M/B 500 Concrete Stop	LHS ✓			
78 13,530		750 MB				Okay	Concrete MB 750	LHS ✓			
79 13,620	/					Good	3.5 m x 2 m concrete box culvert new	LHS ✓	GOOD BY DRAINAGE HOUSE		55
80 13,680		500 MB				Okay	Concrete M/B 500	LHS ✓			
81 13,740		750 MB			Stop	Okay	Concrete M/B 750 mm Concrete Stop	LHS ✓	Outlet to Distrib. (Love's) manure		
82 13,820	Farm				Stop	Okay	Bridge Wood 1.8 m x 2.44 m	Farmer's POOR Minor repairs required			

Line No.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		A-c-X	T/Obox	Pipeline						
83	13,900		500 MB		Stop	Concrete M/B 500 Concrete Stop	LHS ✓			
84	14,120		500 MB		Stop	Concrete M/B 500 Concrete Stop	LHS ✓			
85	14,400				Bridge	Bridge wood 3.7 m x 1.5 m				
86	14,470	/	500 MB		Stop	Concrete M/B 500 Concrete Stop	LHS ✓			
87	14,520	Stock			Bridge	Bridge wood 2.74 m x 1.5 m R.C. Pipe Xing REMOVED BY R.C. PIPE CULVERT. BOUNDARY				
88	14,780		500 MB		Stop	Concrete M/B 500 Concrete Stop	LHS			
89	15,020	Farm			Bridge	Bridge Wood 2.44 m x 2.74 m				
90	15,060		500 MB		Bridge	Concrete M/B 500	LHS ✓			
91	15,350			P/L	Poor	Concrete pipe line 58.5 m x 610 mm on Race Grade Inlet - concrete Outlet - concrete			56	
92	15,670				Okay	Concrete measuring weir Drop of crest weir 1.8 m Brass Knocker Creek ends LHS				57
93	15,720		750 MB		Okay	Concrete M/B 750	LHS			
94	15,780				Bywash	Stone pitched open bywash				
95	15,800	Road			Stop	Concrete stop and screw-lift steel gate				
96	16,000	/			Okay	Concrete box culvert 5.5 x 1.7 m wide 610 mm deep Concrete pipe crossing 4.9 m x 914 mm pipes				58

*E Pool T DRAKES*  
*T DRAKES Needs some new decking Pool*  
*Fred Johns*  
*Very Poor Farm*  
*Over Break site P/L slumped "Minor"*  
*BRASS KNOCKER CREEK*  
*From Distrib. No. 6 on Main LHS*  
*To Distrib. Brassknocker Creek*  
*To Brassknocker Creek*  
*Nonstead*  
*Ron's Access Road Brassknocker*  
*BOUNDARY FENCE*  
*No cover*  
*Scheme + Farm*

Dist. (m)	Ac	T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		T/Obox	Pipeline	Misc.						
97 16,130	Farm				Poor	Bridge wood on old truci chassis 3.4 m x 1.8 m <i>Removed</i>				
98 16,220	Farm			<i>BRIDGE</i>	Poor	Bridge wood on channel iron 3.7 m x 106				
99 16,300	Farm	500 MB			Okay	<i>WOODEN WALKWAY OVER TOP</i> Concrete M/B 500 LHS. and concrete stop				
100 16,340	Stock				Poor	Bridge wood on railway rails <i>Removed</i> 4.57 m x 1.22 m				
101 16,410	Farm				Fair	4 m x 2 m wooden bridge <i>Removed</i>				
102 16,580	Farm			<i>BRIDGE</i>	Fair	Bridge wood on steel rails 3.7 m x 3 m				
103 16,600	Farm	500 MB			Okay	Concrete M/B 500 LHS ✓				
104 16,800	Farm				Okay	Bridge wood 3.7 m x 3.0 m <i>Removed</i>				
105 16,900	Stock			<i>BRIDGE</i>	Fair	Bridge wood 3.0 m x 2.0 m <i>DECK GOOD BUT ONLY LIGHT BEARERS</i>				
106 17,020	Farm	500 MB			Okay	Concrete M/B 500 LHS				
107 17,140	Farm				Fair	Bridge wood 3.7 m x 900 mm				
108 17,080	Farm	750 MB			Okay	M/B 750 <i>WOOD PLANK WALKWAY OVER STRUCTURE</i>				
109 17,100				<i>Stop BRIDGE</i>	Okay	Concrete Stop				
110 17,190				<i>?</i> <i>Trough</i>	Fair	Split pipe trough over race <i>gone</i> 3.7 m x 610 mm				
111 17,280			P/L			Steel pipe over race 6.4 m x 177 mm ✓				
112 17,320	Stock				Fair	Bridge wood 3.7 m x 1.0 m <i>Removed</i>				
113 17,350		500 MB			Okay	Concrete M/B 500 <i>WOOD WALKWAY OVER TOP</i> LHS ✓				
114 17,420	Farm			<i>?</i>	Poor	Bridge Wood on steel bearers 3 m x 900 mm?				
115 17,740	Farm			<i>BRIDGE</i>	Fair	Bridge wood on steel bearers 3.7 m x 900 mm				
116 17,770			P/L		Fair	Steel pipe 5 m x 750 mm ✓				

Sta. No.	Dist (m)	I T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	Obox	Pipeline						
117	17,800	Scheme Farm			Okay	REPLACES BY 1000 R.C. PIPE Bridge wood on part wood part steel bearers 3.7 m x 3.7 m	ACCESS TO TRUNKWAY OFF GARAGE DRIVEWAY			
118	17,850	500 MB			Okay	M/B 500 LHS. and concrete stop	Kiataa			
119	18,060	Farm		Bridge	Fair	Bridge wood on truck chassis 4.57 m x 106	Decking Very Poor			
120	18,210	500 MB			Okay	Concrete M/B 500 LHS. and concrete stop	BRUSHY TO Distrib. No. 5			
121	18,300	Stock			Fair	Bridge wood 3.4 m x 900 mm	Very Good			
122	18,410	Stock		Bridge	Bad	Bridge wood on steel rails - Kiataa 3.7 m x 900 mm	EXTREMELY POOR			
123	18,550	Stock		Bridge	Okay	Bridge wood on steel rails 3.7 m x 900 mm	Over old Break also provides access to Main Race V.C. Wellhead's Curving			
124	18,660		P/L		Okay	Concrete pipe line on race grade	Into concrete well. To start of Distrib No. 6 MORRIS			
125	18,780		P/L		Okay	Concrete Inlet and Outlet				
126	19,180	Farm			Okay	Stone pitching at Outlet				
127	19,600	500 MB			Okay	Concrete pipe line plus headframe Gated outlet 6.4 m x 457 mm and concrete stop <sup>or Kaitiaki</sup>				
128	19,650	500 MB			Okay	Concrete M/B 500 LHS. and concrete stop	Farmer's			
129	19,710		P/L		Okay	5.0 m x 750 mm RC pipe crossing	Farmer's			
130	19,740	Farm			Fair	Concrete M/B 500 LHS. and concrete stop	Farmer's			
131	19,770	Stock		Bridge	Okay	Tin pipe over race 3.7 m x 229 mm	FARM VERY POOR			
132	19,800		P/L		Fair	Tin pipe over race 4.57 m x 152 mm	Farmer's			
133	20,070		P/L		Fair	Concrete pipe crossing 4.9 m x 762 mm 4 m x 2 m wooden	Farmer's			
134	20,100	Farm			Fair	Tin pipe over race 6 m x 229 mm	Farmer's			
			P/L		Okay	Tin pipe over race 3.7 m x 229 mm	Farmer's			
					Okay	Bridge - wood on RSJ's 3.7 m x 4.3 mm				

R.C. ⇒ Reinforce Concrete Pipe.



Dist. (m)	I		E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
	Acc-X	T/O	Pipeline	Misc.							
135 20,130			P/L			Fair	Steel pipe over race 5 m x 400 mm	Farmer's ✓			
136 20,170			P/L			Fair	Tin pipe over race 6 m x 229 mm	Farmer's ✓			
137 20,200			P/L			Fair	Tin pipe over race 4.57 m x 229 mm	Farmer's ✓			
138 20,220	Farm					Okay	REPLACED Bridge - wood on RSJ's 4.3 m x 4.3 m	Scheme 1 Farm			
139 20,320		375 MB				Fair	Concrete M/B 375 LHS. and concrete stop - CONCRETE CURVE R/W 1000 mm	Or Kelleher's Scheme			
140 20,350	Farm					Fair	6 m x 800 mm steel pipe	T Kelleher Farmer's GARDENS			
141 20,380			P/L			Fair	7 m x 500 mm steel pipe				
142 20,730		500 MB				Okay	M/B 500 T Kelleher's concrete pipe	LHS			
143 20,970	Farm					Fair	5.5 m x 750 mm steel pipe				
144 21,080		375 MB				Okay	M/B 375 mm T Kelleher's	LHS			
145 21,470		500 MB				Okay	M/B 500 mm T Kelleher's concrete pipes	LHS			
146 21,820	Stock					Poor	3 m x .9 m wooden bridge concrete 500mm				
147 22,070		375 MB				Okay	M/B 375 Pipe RWENH R/W PIPE	LHS	Outlet to McDonnell Distrib. No. 7		
148 22,550		500 MB				Okay	NEW concrete head walk shoes M/B 500 mm bywater	LHS	Outlet to Distrib. No. 8		
149 22,610	Road					Okay	Springvale Rd Concrete pipe road crossing. 12.2 m x 700 mm		Under Clyde-Kurouan Springvale tarseal Road		
150 22,670		500 MB				Okay	Stone inlet and outlet walls M/B 500 mm	LHS	RACE FIELD DM		
151 22,730		500 MB				Okay	M/B 500 mm Kourouan's Foot - concrete stop	LHS LHS ROAD	RACING		
152 23,060		500 MB				Okay	M/B 500 mm	LHS	Outlet to Distrib. No. 9		
153 23,070	Bridge					Okay	BRIDGE Bridge - wood 3.4 m x 1.22 m		GOOD SAND BARRIERS ACCESS TO M/B		
154 23,300		500 MB				Okay	M/B 500 mm Wilson Duncan	LHS			

P.O. No.	Dist. (m)	I		E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Line	Misc.							
155	23,440		500 MB				Okay	M/B 500 mm Wilson Mastic LHS				
156	23,460	Stock			BRIDGE		Okay	4.0 x 1.2 m wooden R Wilsons	FARM - FAIR - R Wilson			
157	23,480	/			Inlet		Okay	Concrete pipe crossing 12.8 m x 700 mm PVC Pipe	Under Clyde - Springvale Road			
158	23,710	Road	500 MB				Okay	Concrete headwall inlet only				
159	23,980	Stock			BRIDGE		Okay	M/B 500	Under Clyde - Springvale Road			
160	24,430	/					Okay	Into concrete pipe syphon under road 13.7 m x 305 mm TO RIVERS - FAIR - XIM - CONCRETE APES - 4 m x 1.5 m wooden VERY POOR -	Could do with more cover			
161	24,460	/	500 MB				Okay	M/B 500 T. Kelleher				
162	25,150	Road					Okay	Concrete and stone box culvert 10.0 x 900 mm x 610 mm deep James + Jones	Under Clyde - Springvale Road			
163	25,200		750 MB				Okay	Concrete M/B 750 LHS. and concrete stop Jones				
164	25,440		750 MB				Okay	M/B 750 LHS. and concrete stop Mcmill 750			60	
165	26,500		500 MB				Okay	Concrete M/B 500				
166	26,690	Bridge			BRIDGE		Okay	Bridge - wood on RSJ's 3 m x 229 mm R.C. Pipe	Scheme Farm - Scheme + Farm			
167	26,770		500 MB				Okay	Concrete M/B 500	To "Montgomery Distrib."			
168	26,820		375 MB				Okay	Concrete M/B 500 LHS. and concrete stock				
169	27,200		500 MB		Stop		Okay	Concrete M/B 500 LHS. PAROLA Concrete Stop				
170	27,600		500 MB				Okay	M/B 500 mm LHS. and concrete stop SIM				
171	27,700	Farm					Fair	6.5 m x 750 mm steel pipe SIM				
172	28,000				Bywash			Openearth bywash				

REASSESSMENT OF SCHEME: MANHERIKIA

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No.	Dist. (m)	I T E M			Cond.	Detail	Remarks	last ass.	Photo no.	Drawing no.
		Acc-X	T/O	Pipeline						
173	28,200	Farm	500 MB		Fair	6 m x 750 mm steel pipe				
174	28,250		500 MB		Okay	M/B 500 mm Concrete Stop				
175	28,540		500 MB		Okay	M/B 500 mm Concrete Stop				
176	29,200	/			Okay	Bridge - wood on RSJ's 3 m x 3.66 m				
177	29,970				Okay	Open earth bywash				
178	31,330		450 MB		Okay	450 box concrete surround				
179	31,500				Okay	Concrete LHS. and concrete stop				
180	31,800				Okay	Bridge - wood 3 m x 3.6 m				
181	31,840		375 MB		Okay	Concrete M/B 375 mm				
182	32,210		500 MB		Okay	Concrete M/B 500 mm and concrete stop				
183	32,460	/			Okay	Bridge - wood 2.7 m x 2.44 m				
184	32,500		500 MB		Okay	Concrete M/B 500 mm				
185	32,550	Farm			Okay	Bridge - wood 3 m x 2.44 m				
186	32,950	Farm			Fair	Bridge wood 3 m x 2.44 m				
187	33,050			P/L	Okay	Twin concrete pipes 7.3 m x 450 mm				
188	33,420	Farm			Okay	Concrete M/B 500 mm				
189	33,760		500 MB		Okay	Concrete Stop				
190	33,930	Farm			Okay	Concrete Stop				
191	34,110				Okay	3.5 x 2.4 m wooden bridge				

Dist. No.	Dist. (m)	I		M		Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox/Pij	k	Misc.						
192	34,410		375 MB			Okay	Concrete 375 MB	91.4 m above Lett's Gully Road		61	
193	34,480	/				Okay	Wood foot bridge 3 m x 127 mm over Gully	9.1 m above Lett's Gully Road. Farmer's			
194	34,510		Culvert			Okay	Box culvert 8.5 m x 900 mm wide x 457 mm	Under Lett's Gully Road			
195	34,550				Bywash	Okay	Open earth bywash	To Lett's Gully			
196	34,620		Farm			Fair	Control gate 375 mm concrete pipe	Flood disposal			
197	34,650				Outlet	Fair	M/B 500 mm in race with headgate	CEBROKE FAIR			
					Stop	OK	Concrete pipe and headframe outlet 1.8 m x 380 mm WOOD FOOT PIPE	No longer used LOWAN OK			
198	34,730	Stock				Poor	Concrete pipe and headframe stop 1.2 m x 380 mm DRIVEWAY	TO SEPTIC NO LONGER OVER RACE: LOWAN			
199	34,790	Farm				Fair	Ornament Foot Bridge steel pipe over race Bridge - wood 4.57 m x 1.2 m	Decking: Airey's		62	
200	34,850	Walk				Okay	Concrete pipe crossing 7.9 m x 600 mm	Old Bone Orchard			
						Okay	3 m x .9 m wooden Race not able to be machine cleaned Overgrown				
201	34,960					Okay	Pipe Crossing 100 mm				
202	34,990	/				Okay	Bridge Wood - 2.74 m x 3 m				
203	35,050	/				Okay	STEEL PIPE xing Concrete pipe crossing 4.9 m x 600 mm	Gregory			
204	35,500	/				Okay	2 x 75 mm PVC pipes crossing - face removed WOOD FOOT BRIDGE				
205	35,780	Farm				Okay	Concrete pipe crossing 4.9 m x 600 mm				
206	35,870	/				Fair	Concrete pipe crossing 4.9 m x 600 mm	Gregory - Good Courtnays			
						Fair	Concrete pipe crossing 1.2 m x 600 mm				
							CEB CHASSIS NO DECKING POOR WOOD PLANK FOOT BRIDGE FAIR WOOD FOOT BRIDGE FAIR	MANUREWAY HOME			

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Dist. no. (m)	I		E	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
	Acc-X	T/Obox/Pipeline							
207 36,000	Road			Fair	Concrete pipe road crossing 8.23 m x 380 mm to 600 mm at outlet T/O to break tank	Under Gillagan's Gully Road			
208 36,060			Bywash	Fair	Open earth bywash LHS	Supports rotten "Minor"		64	
209 36,110		P/L		Poor	Steel pipeline across Gully on "A" frames 17.37 m x 600 mm				
210 36,130				Poor	2 stock (wooden) bridge and 250 steel pipes across race				
211 36,200	/			Okay	Concrete pipe crossing 5.49 m x 600 mm	Numerous board crossing in poor state of repair and domestic intakes		65	
212 36,260	/			Okay	Concrete pipe crossing 7.4 m x 600 mm				
213 36,360	/			Fair	Steel pipe crossing 2.74 m x 750 mm				
214 36,400	Farm			Okay	Concrete pipe crossing 5 m x 600 mm				
215 36,510	Foot			Okay	Wooden bridge 3 x 1.5 m 3 m x 300 mm steel pipeline	Across race			
216 36,560	Farm	P/L		Okay	Concrete pipe crossing 5 m x 450 mm	House access		66	
217 36,600	/			Okay	Concrete pipe crossing 5 m x 450 mm Steel pipe crossing	Farmer's Race ends at below concrete division to Borough-supply race. RHS. To bywash pipe crossing under SH 85 16.46 m x 600 mm LH			

DATE: 25-2-85

RACE: Borough Race

RE/ASSESSMENT OF STRUCTURE

Struct. no.	Dist. (m)	I T E M			Cond.	Detail	Remarks	List ss.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeli							
							Water drops into bywash channel at outlet of crossing pipe. Borough Council owns and maintains bywash through Alex. Motor Camp				

Dist. (m)	I	T	E	M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
1 30				Drops	Fair	Starts structure "No. 47" on Borough Race	Some scouring			
2 170				Outlet Stop	Fair	Waterway 900 mm wide x 229 mm deep Capacity - 6 cusecs	Farmer's			
3 280				Outlet Stop	Fair	Stone pitched drop of 1.22 m in 7.6 m	Farmer's			
4 400				Outlet Stop	Fair	Concrete and wood outlet Concrete Stop	Farmer's Farmer's			
5 550	/			Outlet Stop	Fair	Earth outlet Concrete Stop	plus scouring at outlet			
6 620				Road	Okay	Concrete outlet Concrete Stop	Under "SH 85"			
7 650				Outlet	Okay	Steel pipe crossing 9.8 m x 375 mm dia. Inlet - concrete Outlet - concrete				
8 660	/				Okay	Steel pipe and concrete headwall outlet 900 mm x 600 mm	Also used as stop			
9 750				Outlet Stop	Okay Okay	Steel pipe and concrete headwall crossing 6 m x 525 mm	Farmer's Farmer's			
10 910	/				Okay	Concrete outlet Concrete stop Steel pipe crossing 3 m x 450 mm	Race ends at Boundary From structure No. "6" to its end the waterway is good and the banks ample Race is used as farm headrace			

Struc. No.	Dist. (m)	T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc. X	T/Obox	Pipeline						
1	0			Chute	Okay	Starts structure "No. 81" on Borough Race Waterways - 610 mm wide x 305 mm deep Capacity - 6 cusecs Concrete chute downhill 202.39 m x 450 mm x 305 mm	Some minor repairs, but is solid structure			
2	150	Stock			Okay	Two wood crossings for stock	Under "SH 85"			
3	160	Road			Okay	Part concrete box, Part concrete pipe	Under "SH 85"			
4	200	Culvert				Culvert crossing pipes - 7.3 m x 450 mm	Under "SH 85"			
		Culvert				1.8 m x 600 mm wide x 450 mm deep	All outlets have "stop" controls 150 m			
5	300					Concrete water division - 3 branches				
						(1) Concrete outlet straight ahead				
						(2) Concrete outlet RHS				
						(3) 750 M/B LHS Race continues 150 m in open race with stop and open outlet RHS				
						Race grassed				



Dist. (m)	Aa X	I T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		T/C	box	Pipeline						
1 250	/					Starts structure "No. 93" on Borough Race Waterway Creek bed Capacity - 6 cusecs Water runs down Brassknocker Creek to Farm Boundary				
2 330	/				Fair	Steel pipe crossing 6.4 m x 750 mm				
3 240	Farm			Outlet	Fair	Steel pipe crossing 6.4 m x 750 mm				
4 1100	/			Stop	Okay	Gated steel pipe outlet 3.7 m x 450 mm LHS. 1.08 m x 2.4 m concrete pipe stop	Outlet to Distrib. "3A"			
					Fair	Steel pipe crossing 6.4 m x 600 mm				
						Water flows under SH 85 through Creek Culvert to farm boundary				

DISTRIB. NO. 3a

Struct.	Dist. (m)	I		E	M	Cond.	Detail	Remarks	Dist. Ass.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox									
1	150	/				Fair	6.4 m x 600 mm steel pipe crossing					
2	260	Road				Poor	375 mm concrete pipe under SH 85	To be replaced this year				

Dist. (m)	Acc. X	E			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		box	Pipeline	Misc.						
1	0		P/L		Okay	Starts structure No. 108 on Borough Race Waterway 914 mm wide x 457 mm deep				
2	300	500 MB			Okay	Concrete P/L down hill 322.17 m x 305 mm Last 17.37 under SH 85 of which at least 6.4 m at outlet is 6.4 m x 450 mm dia. steel pipe				
3	350		P/L			Concrete M/B 500 mm RHS				
4	550	500 MB		Stop		RC pipe 31.7 m x 375 mm				
5	890				Okay	M/B 500 mm RHS Concrete Stop				
6	930			Drops	Fair	Wooden bridge 4 m x 2.4 m				
7	1050		P/L		Okay	Series of 7 wood drops held together by willow roots				
8	1080			Drop	Fair	Concrete pipe under transformer 4.88 m x 375 mm Concrete headwalls				
9	1090	375 MB			Okay	Series of 3 wood drops. Drop of 1.8 m in 12.2 m				
10	1100	Road	P/L		Okay	M/B 375 mm RHS RC Pipe 9.75 m x 375 mm	Under Keddell Road			
							Race ends Boundary fence. Waterway good Banks ample			

Stn. No.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Inst. Qss.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
1	40	Road			Fair	Starts structure "NO. 120" Borough Race Water runs down natural gully 60.96 m passes under "SH 85" through					
2	420	Road			Okay	Concrete road culvert 10.97 m x 375 mm	Ends at Boundary fence No defined waterway				

Structure	Dist. (m)	I			M		Cond.	Detail	Remarks	Last Oss.	Access	Photo no.	Drawing no.
		Acc-X	T/O	Box	Pipe	Misc.							
1	20	Road				Inlet	Okay	Starts structure "No. 125" on Borough Race Waterway 1 m x 305 mm deep Capacity - 4 cusecs Concrete pipe road crossing 450 mm x 5 m to deep-well concrete inlet 3 m x 660 mm x 813 mm Pipes 11.58 m x 450 mm and 1.22 m x 686 mm wide x 450 mm deep concrete box extension					
2	50					Outlet	Okay	Concrete and split steel pipe outlet LHS and stop					
3	60			500 MB			Fair	M/B 500 mm in race					
4	100			/			Fair	Sod turnout and concrete stop					
5	120			/			Fair	Sod T/O - RHS					
6	170			375 MB		Trough	Fair	Concrete M/B 375 mm LHS Water drops down split-steel trough 34.14 m x 559 mm into steel pipe stilling well	Working well with little scour			70	
7	240			/		Well	Fair	Steel pipe in race 5 m x 375 mm Sod T/O	Farm race passes over pipe Race used as farmers headrace Race ends at Boundary fence Waterway - good Banks - ample				

REASSESSMENT OF SCHEME: MANUHERIKIA

RACE: DISTRIB. "NO 7"  
(OR McDONNELL'S "NO. 1" RACE)

DATE: 27-2-85

sheet 67 of 72

Struct.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline						
1	20			Syphon		Starts structure "No.147" on Borough Race Waterway Capacity - 2 cusecs Concrete pipe syphon 31.1 m x 150 mm	Under Clyde-Springvale Road Has leak near road on inlet side and scouring is occurring at outlet Distrib. ends at farm boundary at syphon outlet			

SITE	Dist. (m)	I T E M			Cond.	Detail	Remarks	Dist	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
1	200	Road			Okay	Structure "No. 148" on Borough Race Waterway 457 mm wide x 229 mm deep Capacity - 4 cusecs Water flows down gully to race Concrete pipe crossing 26.82 m x 600 mm	Under Clyde-Springvale Road Race starts proper				
2	400				Fair	Concrete bywash outlet LHS with split steel pipe extension 3.7 m x 600 mm Concrete stop					
3	500	/			Okay	Concrete pipe crossing 3.7 m x 375 mm					
4	580			Syphon	Okay	Concrete pipe syphon 27.43 m x 375 mm Inlet - concrete Outlet - concrete	Under SH 85				
							Race ends at boundary fence at syphon outlet Waterway - fair Banks - ample				

RACE: DISTRIB. NO. 9 DATE: 27-2-85  
 MCDONNELL'S NO. 3 (WHITAKER'S PT)

REASSESSMENT OF SCHEME: MANUHERIKIA

SITTING	Dist. (m)	I T E M			Cond.	Detail	Remarks	Last Obs.	Access	Photo no.	Drawing no.
		A/c-X	T/Obox	Pipeline							
1	20			P/L	Okay	Starts structure No. 152 Borough Race Waterway - 900 mm wide x 229 mm deep Capacity - 4 cusecs R C Pipeline 305 mm dia. x 47.5 m to gully Race flows down gully					
2	330			P/L	Okay	R C P/L 375 mm x 85.34 m 480.7					
3	500				Poor	R C P/L 375 mm x 14 m					

Laid under road and yards  
Needs repair



Stn. No.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Dist. Cross	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
1	100	/			Okay	Starts structure NO. 162 on Borough Race					
2	1400	/			Okay	Waterway - 762 wide x 229 mm deep Capacity - 4 Cusecs					
3	1600				Okay	Concrete pipe crossing 2.44 m x 450 mm					
4	1640	/			Okay	Concrete pipe crossing 4.88 m x 450 mm					
5	2050			Flume	Fair	Concrete pipe syphon 38.4 m x 380 mm Inlet - concrete Outlet - concrete					
6	2100	Road			Okay	Concrete pipe crossing 4.88 m x 380 mm Steel flume downhill 16.46 m x 559 mm x 305 mm deep Stone pitching at Outlet Road Crossing 15.85 m x 380 mm					

Race ends Boundary fence.  
Waterway generally reasonably good.  
Some scouring at start.  
Banks ample

Under SH 85  
Needs fill

Struct. No.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Dist. (m)	Access	Photo no.	Drawing no.
		Acc-X	T/O box	Pipeline							
1	0	/			Fair	<p>Situated in Scrubby Gully</p> <p>Waterway - 914 mm wide x 457 mm deep</p> <p>This race is a separate entity and has no source of supply excepting natural water from springs and run-off water from irrigated land above.</p> <p>Race starts west of and close to the junction of Kelliher Road and Lewis Lane. Water is charged for at a fixed rate per acre per season on the 54 acres served from the race</p> <p>Steel pipe crossing 1.5 m x 457 mm</p>	Under Water Disappeared long time ago				
2	50				Okay	<p>Scrubby Gully enters race.</p> <p>Concrete pipe with head gate LHS to creek</p>					
3	60	/				Steel pipe crossing 3.66 m x 600 mm					
4	80	/				Concrete pipe crossing 14.33 m x 600 mm	Needs fill (County)				
							Race ends Boundary fence				
							Waterway Okay				

DATE: 27-2-85

RACE: DISTRIB. NO. 11  
(POPLAR'S RACE)

AF: MANUHERIKIA

SC

REASSESSMENT

Str. no.	Dis. (m)	I		Pipe	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	M							
1	10	/			Okay	Starts structure No. 181 on Borough Race 1676.4 m Waterway - 600 mm wide x 229 mm deep				
2	520	/			Okay	Concrete pipe crossing 7.5 m x 375 mm	To farm race			
3	560		Outlet		Okay	Steel pipe crossing 2.74 m x 380 mm Earth outlet RHS	Under SH 85			
4	1700	Road			Okay	Concrete pipe road crossing 12.19 m x 380 mm plus box culvert extension at outlet 1.83 m x 600 mm x 600 mm deep Concrete inlet only	Race ends at Farm Boundary Waterway good Banks ample			

APPENDIX C

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
Alexandra Holiday Camp Ltd.	1	X14029	57	VII	Leaning Rock	-	) 4 acres	C/T 143/205 151/296
Alexandra Pest Destruction Board	2	Pipe (Per 2 acre ft)	-	-	-	-	-	-
Alexandra Trotting Club	3	N/A	-	-	-	-	30 acres	-
Anderson M	4	An.Charge	-	-	-	-	-	-
Annan WL	5	Dom.	-	-	-	-	-	-
Baird RA & DM Ltd.	6	Pipe	-	-	-	-	4.25 acres	-
Ashton M	7	X14123	17	VII	Tiger Hill	-	)	C/T 220/36
			16	"	"	-	)	220/37
			10	"	"	-	) 462 acres	C/T 138/99
			11	"	"	-	)	)
			6	"	"	-	)	C/T 208/44
			12	"	"	-	)	)
Ashworth AG	8	X13958	72	VII	Leaning Rock	-	7 acres	C/T 172/93
Gare RL	9	X14086	28	VIII	Leaning Rock	-	) 185 acres	C/T 138/82
		X14092	Bal:			-	)	185/262
			Pt.45 VI		Tiger Hill	-	)	C/T
Instone JR & JF	10	Pt.X231638	Lot 3 DP1960		Leaning Rock	-	7 acres	5A/956
Dunstan Syndicate	11	X14007	Lot 3 DP 6296 (being Part 10S Manuherikia Settlement)			-	)	C/T 324/423
		Pt.X14036	Part 11S Manuherikia Settlement			-	) 59.25 acres	C/T 206/231
		Pt.X14005	Pt: Lot 1 DP 6269 (being Part 10S Manuherikia Settlement)			-	)	C/T 324/245
		X14006	Lot 4 DP 6296 (being Part 10S Manuherikia Settlement)			-	)	C/T 324/242
		X14008	Lot 2 DP 6296 (being Part 10S Manuherikia Settlement)			-	)	C/T 324/244
Beck BT & TL	12	Pt.X231648	Lot 8 DP 11960		Leaning Rock	-	6 acres	
Duncan RM & LG	13	Pt.X13991	Lot 2 DP 18638		Leaning Rock	-	4 acres	Part C/T 5D/1199
Leckie BE & Mulqueen G	14	N/A	1 38		Leaning Rock	-	2.5 acres	
			2 "		"	-		
Bennie RA & Son	15	X14429	100 IX		Leaning Rock	-	2 pipes	C/T 313/203
			Pt.68 "		"	-		C/T 172/76
			1A "		"	-		C/T 82/9
			1 "		"	-		Pt. 8D/1375
Holland TP & GM	16	X228242	Lot 1 DP 18884			-	1 acre	
Bone RK	17	Dom.	-	-	-	-	-	-

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. NO.	Sec Blk	SD	area		C / T
					total	irrig.	
Botting RM & KJ	18	Pt.244248	Lot 3 DP 15223 (being Part 122 Leaning Rock)			4 acres	C/T 5B/152
Todd M	19	Pipe	- - -			-	-
Boyle K	20	Pt.X14820	Part: 12S)Manuherikia 15S)Settlement			9 acres	C/L 206/236
Brown BR & GJ	21	X14026	Lot 1 DP 7171 (being Part 45 VI Tiger Hill)			7 acres	C/T 352/200
Johnson B	22	X13962 ( & Pipe)	3S)Manuherikia 1330R)Settlement			40 acres & Pipe	C/L 315/79
Brent NH	23	Pt.X14082	2 of 65 IX Leaning Rock Part DP 7021 (Sect. 1 & 1A IX)			6 acres	
Steedman ND & AJ	24	Pt.X14820	Part: 12S) Manuherikia 15S) Settlement			3 acres	C/L 206/236
Bruce IL	25	Pipe (per 2 acre foot)	- - -			-	-
Bruhns M	26	Pt.14033 Part: X13966 Part: X14032	Part: 147 I Leaning Rock 91 VII " Part: 78 I Leaning Rock Bal.79" " 13S Manuherikia Settlement Part: X14185 LIV Town of Clyde IV " "			10 acres	C/L 315/78 C/T 392/179 C/T 327/68 C/T 204/77
Brunton CC	27	Pt.X17575  Pt.231638	Part: Lot 1 DP 6297 (being part sect.51 Block VII Leaning Rock			7 acres	C/T 325/204
Butt AM & TJ	28	Pipe	- - -			-	-
Buchanan WA & MH	29	Pipe	- - -			-	-
Cook GF	30	N/A	- - -			7.5 acres	
Carty JD & MP	31	Pt.X14820	Part: 12S) Manuherikia 15S) Settlement			9 acres	C/L 206/236
Clearwater GM	32	Pipe	- - -			-	-
Cook GF	33	X14074  X14329  228247	80 VII Leaning Rock 90 " " 80 " " 90 " " Lots 2 ) DP 7322 3 ) (being Pt.551 Block VII Leaning Rock SD			3.7 acres & Pipe	C/L 259/129  C/T 339/153
Courtney DJ	34	Pipe (X14282)	- - -			-	-

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
Crack LA	35	Pipe	-	-	-	-	-	-
Craddock TJ	36	Pt.X231638	-	-	-	-	7 acres	-
Griffiths JET & DL	37	No Agree- ment	-	-	-	-	Pipe	-
Hewitt PM	38	Pt.X231638	-	-	-	-	10 acres	-
Pleace RW	39	Pt.14003	Part: 9S Manuherikia Settlement			-	5 acres	C/L 290/56
Currie DE	40	No Agree- ment	-	-	-	-	Pipe	-
Anderson K	41	X14975	84	IX	Leaning Rock	-	) 30 acres	C/T 201/123
			116	"	"	-	) & pipe	C/T 201/104
Hyndman BJ & CM	42	Pt.X14033	Part: 78 I Leaning Rock Bal: 79 " "			-	) 8 acres	C/T 87/10
			13s Manuherikia Settlement			-	)	C/T 97/173
						-	)	C/T 327/68
Driver PR	43	Pt.X17575	Lot 1 DP 6297 (and being pt.S51 block VII Leaning Rock SD)			-	) 7.5 acres	C/T 325204
Illingworth WB & JL	44	X14828	48	IX	Leaning Rock	-	Pipe	C/T 6D/1176
Dodds GJ	45	Pt.X231638	6)DP 11960 Leaning Rock 7)			-	) 13 acres	C/T's 4C/115
						-	) & pipe	4C/116
Mulvaney CJ & LM	46	Pipe	-	-	-	-	-	-
Donaldson LB	47	Pipe	-	-	-	-	-	-
Grayling BH & JM	48	X14225	42	I	Leaning Rock	-	)	C/T
			43	"	"	-	) 10 acres	)230/155
			60	"	"	-	)	)
			61	"	"	-	)	)
			(being Lot 2 DP 3606)			-	)	)
Duncan AJ	49	X14087	40	VI	Tiger Hill	-	) 225 acres	C/T
			7	VII	"	-	)	)3A/887
Duncan AJ	50	Pt.X14089	20	VII	Tiger Hill	-	55 acres	C/L 193/73
Duncan AJ	51	260791	66	VI	Tiger Hill	-	) 152 acres	C/L 193/12
			67	"	"	-	) & pipe	193/63
			68	"	"	-	)	188/152
Ogden C	52	No Agreement (per 2 acre ft)	-	-	-	-	-	-
Dunley M	53	X13959	Lot 2 DP 6384 (being pt.sections 41, 44, 45, 59 and surface soil of Pt.Sect.14S Block I Leaning Rock SD)			-	) 20 acres	C/T 328/26
			Lot 3 DP 6384 (being pt.secs.41,42,43 44,45 and 145 Block I Leaning Rock SD)			-	)	C/T 331/177
Cruickshank R	54	Pt.X14036	Part: 11S Manuherikia Settlement			-	4.25 acres	C/L 206/231
						-	& pipe	

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec Blk	SD	area		C / T
					total	irrig.	
Dyson A	55	X13957	Lot 5 DP 6384 (and being pt.secs.43, 60,61,63 Block I Leaning Rock SD)	-	) 14 acres	C/T 328/218	
Page J	56	X14887	Lot 1 DP 6384 (secs.41,45,59 and the surface soil of part sec. 145 Block I Leaning Rock SD)	-	) 10 acres	C/T 328/24	
King LM & EM	57	Pt.X14032	Part: 78 I Leaning Rock Bal.79 I "	-	) 16.5 acres	C/T 392/79	
			13S Manuherikia Settlement	-	)	C/T 327/68	
Halliday GS & HA	58	Pipe	- - -	-	-	-	
Box G	59	Pt.X14152			8 acres		
Smith AM	60	Pt.X14820	Part: 12S) Manuherikia 15S) Settlement	-	4 acres	C/L 206/236	
Fox GW	61	Pipe	- - -	-	-	-	
Gladstone WB & JS	62	X17647	Part: 113 I Leaning Rock 1277R VIII Pt:40 " "	-	) 100 acres	C/T 221/2	
			Pt.39 " "	-	)	C/T 217/96	
			Pt.39 " "	-	)	C/T 220/163	
			Pt.50 VII "	-	)		
Golden RJ	63	X14111	91 I Leaning Rock Pt.92" " "	-	) 140 acres	C/L 206/53	
			4 VIII " "	-	) & pipe		
			5 " " "	-	)		
			18 VI " "	-	)		
			15 VI " "	-	)	C/L 206/206	
			17 " " "	-	)		
			Pt:Run 221J "	-	)	251/139	
Govan JE	64	Pt.X14036	Pt.11S Manuherikia Settlement	-	4.25 acres	C/L 206/231	
Grant DC	65	Pt.228265	Part: Lot 1 DP 7322 (being pt.sec.51 Block VIII and secs. 55,21 Block IX Leaning Rock SD	-	) 20 acres	C/T 376/36	
			Lot 4 DP 7322 (being pt.sec.51 VII Leaning Rock SD)	-	)	C/T 393/240	
Grant W	66	No agreement (per 2 acre ft)	- - -	-	-	-	
Marslin WJ & RD	67	Pt.X13991			18 acres		
Hamilton N	68	Pt.X13991			14 acres		
Harrex V	69	Per 2 acre ft.	- - -	-	-	-	



MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. N <sup>o</sup> .	Sec	Blk	SD	area		C / T
						total	irrig.	
Fulton Hogan Ltd	70	Pipe & Per 2 acre ft.	-	-	-	-	-	-
Void	71							
Haworth J	72	No agree- ment	-	-	-	-	4 acres	-
Hood S	73	Pipe	-	-	-	-	-	-
Hinds GC	74	Pipe	-	-	-	-	-	-
Martin PG & E	75	No agree- ment	-	-	-	-	3 acres	-
Holdon JW	76	Per 2 acre ft	-	-	-	-	-	-
Gott PJ & NA	77	Pt.X14003	Part: 9S Manuherikia Settlement			-	10 acres	C/L 290/56
Houlahan MJ	78	Pt.X14090	4	LIX	Town of Clyde	-	)	)C/L
			5	"	"	-	)	)206/72
			6	"	"	-	)	)40 acres
			7	"	"	-	)	)
			8	"	"	-	)	)C/L
			9	"	"	-	)	)228/72
			10	"	"	-	)	)
Bonham KD	79	Pt.X13991					9.5 acres	
Watts JR & OG	80	No agree- ment	-	-	-	-	4 acres & Pipe	-
Davies BL	81	Pt.X14820	Part: 12S )Manuherikia 15S )Settlement			)	9 acres	C/L 206/236
Clark GD	82	No agree- ment	Lot 5 DP 12794 Leaning Rock (being pt.sec.13S Manuherikia Settlement)			-	7 acres	-
Mackie AJ	83	Pt.X14820	Part: 12S )Manuherikia 15S )Settlement			)	9 acres	C/L 206/236
Pearson MH	84	Pt.X14032	78	I	Leaning Rock	-	)	)C/T
			Bal.79	I	"	-	)	)392/179
			13S Manuherikia Settlement			)	)	)
Jackson MS	85	X14327 (Pipe)	28	VII	Leaning Rock	-	)	)C/L
			76	"	"	-	)	)259/43
			28	IX	"	-	)	)
			69	"	"	-	)	)
			81	"	"	-	)	)
			1430R	"	"	-	)	)
Clutha Valley Development	86	X13965	5	IX	Leaning Rock	-	)	)C/T
			22	"	"	-	)	)52/20
			80	"	"	-	)	)167/115
			119	"	"	-	)	)208/39
		X14158	66	IX	Leaning Rock	-	)	)C/T
		X14039	1 of 65	IX	Leaning Rock	-	)	)184/23
						-	)	)C/T
		228248 (Pipe Agree- ment)	1 of 65	IX	Leaning Rock	-	)	)259/45
						-	)	)382/104

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec Blk	SD	area		C / T
					total	irrig.	
Paulin KM & MI	87	X14005	Lot 1 DP 6296 (being Sec.10S Manuherikia Settlement)		-	) 13 acres	C/T 324/245
Bennett JA	88	Pipe	-	-	-	-	-
Jordan NB & JF	89	321106	Lot 1 DP 7449 (part sec. 51 Blk.VII Leaning Rock SD)		-	) 12 acres ) & pipe	C/T 357/206
Sim JD	90	Pt.X14820	Part: 12S )Manuherikia 15S )Settlement		-	) 9 acres	C/L 206/236
Sinclair DA & J	91	X14017	89	VII Leaning Rock	-	60 acres	C/T 228/126
Kearney J	92	2 Pipes	-	-	-	-	-
Williamson WA & CEA	93	Pt.X14805			-	138 acres	
Williamson JA	94	No agree- ment	1 )	DP 18233	-	3 acres	C/T 6A/1156
Kelliher G	95	X14397 X14396	( 1	VIII Leaning Rock	-	)	C/T 87/28
			(		) 128 acres	C/T's 141/131	
			( 32	" "	-	)	180/90
			( 33	" "	-	)	
			( 26	" "	-	)	
			(		-	)	C/L's
			( 30	" "	-	)	167/65
			( 30A	" "	-	)	167/64
			( 81	" "	-	)	167/28
			( 80	" "	-	)	174/90
Kelliher TC	96	X15108 X15096	82	VIII Leaning Rock	-	) 265 acres	C/L 167/31
			83	VIII Leaning Rock	-	)	C/T's 167/32
			76	" "	-	)	208/46
Keogh GR	97	Pt.231638			-	4 acres	
Kerr JIR	98	X14490	125	IX Leaning Rock	-	Pipe	C/L 315/42
Craig AJ & SF	99	Pt.244248	Part:		-	)	C/T
			Pt.89	VII Leaning Rock	-	) 8 acres	228/126
			108	" "	-	)	
Patterson LW & GN	100	Pt.14820	Part:		-	)	C/L
			12S)	Manuherikia	-	) Pipe	206/236
			15S)	Settlement	-	)	
Kinney	101	X14095	Runs No.223F & 223G & 60 I Tiger Hill		-	) 70 acres	C/L 307/153
Symons JN & SE	102	No agreement Per 2 acre ft	-	-	-	-	-
Frew GE	103	Pipe	-	-	-	-	-
Kroon M	104	X14003	9S Manuherikia Settlement		-	5 acres	C/L 290/56
Lamb TL & EM	105	Pt.X14820 Pt.X13991	Part: 12S ) Manuherikia 15S ) Settlement		-	) 13.5 acres	C/L 205/236
					-	)	

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
McGregor RJ & ED	106	Pt.X14820	Part:			)		C/L 206/236
			12S ) Manuherikia		-	)	9 acres	
			15S ) Settlement		-	)		
Clearwater NG	107	No agreement (Pipe)	-	-	-	-	-	-
McIntosh AL & MP	108	No agreement (Per 2 acre ft)	-	-	-	-	-	-
Maxwell D	109		41	VI	Tiger Hill	)		C/T 171/169
			43	"	"	)		
			Section marked as pre-emptive Right on			)	322 acres	
			Run 221 North Eastern			)		
			Survey District (See			)		
			sec. 42 Block VI Tiger			)		
			Hill SD C/T 86/83)			)		
McDonnell GW & LJ	110	X13896	34	VIII	Leaning Rock	)	51 acres	C/T 286/81
			1 of 36"	"	"	)		
			Pt:1285R"	"	"	)		
Loudon JCR	111	Pt.13966	Part:			-	) 11 acres	C/L 315/78
			147	I	Leaning Rock	-		
			91	VIII	"	-	)	
McIntosh JE (Est)	112	X14127	5	X	Tiger Hill	-	) 63 acres	C/T 314/161 C/T 207/93 C/T 102/42
			5	VII	"	-		
			Bal:			-	)	
			1	X	"	-	)	
McKerchar DL	113	Pt.X231638					10 acres	
Duff GT	114	Pt.X14033				)	) 11 acres	C/L 315/78
		Pt.X13966	147	I	Leaning Rock	)		
		Pt.14032	91	VII	"	)	)	
McLaren	115	Pt.X17575	Part:					C/T 325/204
			Lot 1 DP 6297					
			(being pt.sec.51					
			Blk VII Leaning Rock SD)					
McMurray CC	116							
McMurray M	117	X14015	1	XX	Town of Clyde	)	) 13 acres	C/T 132/236
			2	"	"	)		
			3	"	"	)		
			4	"	"	)		
			5	"	"	)		
			6	"	"	)		
			7	"	"	)		
			8	"	"	)		
			9	"	"	)		
			10	"	"	)		
			11	"	"	)		
			12	"	"	)		
			13	"	"	)		
			14	"	"	)		
			15	"	"	)		
			16	"	"	)		
			17	"	"	)		
			18	"	"	)		
			19	"	"	)		
McFie RR	118	Pt.X14198	Part:					C/L 206/101
			35	VIII	Leaning Rock			

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. NO.	Sec	Blk	SD	area		C / T
						total	irrig.	
McFie BT & C	119	No Agreement (Per 2 acre ft)	-	-	-	-	-	-
Mair IA	120	Pt.X14001				)	8 acres	
		Pt.X14967	Pt:8 I		Leaning Rock	)		C/T
			Pt:9 "		"	)		329/6
Manson FCC	121	No Agreement (Pipe)	-	-	-	-	-	-
Miller GH & JR	122	X14014	Lots 2)	DP 6426		)		C/T
					Leaning Rock	)		329/5
			Lots 3)	DP 6426		)	15 acres	
					Leaning Rock	)		
			144 I		"	)		
			Pt:9 "		"	)		
			Pt:11 "		"	)		
Mathias GB	123	X14133	83 VII		Leaning Rock	)	13 acres	C/T
			88 IX		"	)	& Pipe	180/187
			98 VII		"	)		C/L
			73 "		"	)		251/108
			77 IX		"	)		C/L
			78 "		"	)		259/60
			Pt:124"		"	)		
		X14330	75 VII		Leaning Rock	)		C/L
			414R "		"	)		259/53
Skeet BR & AA	124	Pt.X231638	Lot 4 DP	11960		)	7 acres	C/T
					Leaning Rock	)		4C/413
Meehan HT	125	X16483	Lot 1 DP	7499		)	13 acres	C/T
			(being pt.sec.51			)		360/242
			Blk.VII Leaning Rock		SD)	)		
Miles ME	126	Pt.X14152	Lot 2 DP	15097		)	8 acres	C/T
					Leaning Rock	)		6A/435
Mills JR	127	Pt.X14033				)	9 acres	
		Pt.X13966	Part:			)		C/L
			147 I		Leaning Rock	)		315/78
			97 VII		"	)		
Taylor MD & LP	128	Pt.X14032				)	0.5 acres	
Moir BE	129	Pt.X14036	Part:			)	4.25 acres	C/L
			11S Manuherikia			)	& pipe	206/231
			Settlement			)		
Mount JE & MJ	130	X15071	81 VII		Leaning Rock	)	10 acres	C/T
			Pt:1 "		"	)		309/55
			Surface soil of 101			)		244/6
			VII Leaning Rock			)		C/T
			87 "		"	)		340/214
						)		201/72
Muir J	131	Pt.X14033				)	44 acres	
		Pt.X13966	147 I		Leaning Rock	)		C/L
			91 VII		"	)		315/78
Naylor AL	132	Pipe	-	-	-	-	-	-
Leaning Rock Station Ltd	133	X14310	Run 221H		Leaning Rock	-	55 acres	C/L
			Run 221K		"	-		251/140
Lodge RJ & RA	134	Pipe	-	-	-	-	-	-

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
Wadsworth AD	135	Pt.X14033				)	10 acres	
		Pt.X13966	147	I	Leaning Rock	)		C/L
			91	VII	"	)		315/78
McGreevy AM	136	Pipe Per 2 acre ft						
Whyte GC	137	Pipe	-	-	-			
Masters SB	138	Pt.X17575 Pipe						
O'Neill BS	139	X15097	116	VIII	Leaning Rock	)	431 acres	C/L 348/23
		Pt.20549	Part:			)		C/L
			118	VIII	Leaning Rock	)		377/70
			119	"	"	)		377/69
		Pt.20546				)		
		Pt.20548	120	VIII	Leaning Rock	)		C/L 377/66
Proctor BG & JM	140	Pt.X14820	Lot 10 DP	15278	Leaning Rock		Pipe	C/T 6A/60
Padman RM	141	No agreement (pipe)					Pipe	
McGregor RJ	142	Pipe	-	-	-			
Pollock GW	143	No agreement (pipe)	Lot 14 DP	8783	Town of Alexandra		Pipe	C/T 400/441
Golden RJ & EJ & White RC & Merrilees AG	144	Pt.X14805				)	120 acres	
Pledger JRL	145	Pt.X14003	Lot 2 DP	16104	Leaning Rock (Pt.9S Manuherikia Settlement)		10.5 acres	C/T 7B238
Burden KS & NM	146	Pt.14036	Part:		11S Manuherikia Settlement		4.25 acres & Pipe	C/L 206/231
Waldron DR & MP	147	Pt.X20549	Part:		118 VIII Leaning Rock 119 " "	)	18 acres & pipe	C/T 377/70 377/69
Reidy EFA	148	Pt.X14744 ) (pipe) ) Pt.X14036 )	Part:		11S Manuherikia Settlement		6 acres & pipe	C/L 206/231
Rizzi PF	149	Pipe	-	-	-			
Meldrum RR & AM	150	Per 2 ac/Ft (pipe)	Lot 6 DP	6740	Leaning Rock			C/T 5A/1161
Rowley RW	151	X14083	15	VII	Tiger Hill		44 acres	C/T 300/77
Sanders Bros.	152	X14035	8S		Manuherikia Settlement		23 acres	C/T 206/217
Battrick S	153	Pipe	-	-	-			
Scott GD & FM	154	X14134	14	VII	Tiger Hill		20 acres	C/L 182/105
Sims JO	155	No agreement	-	-	-		Pipe	

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
Smith BB	156	Pt.X14820	Part: 12S)Manuherikia 15S)Settlement			-	3 acres	C/T 206/236
Buchanan RW	157	Pt.X14036	165 I	Leaning Rock			3 acres	C/T 2C/284
Dickson JM & BD	158	X14037	70 VII	Leaning Rock		-	2 acres	C/T 3A/1309
		X14333	75 VII	"			& pipe	C/L 259/53
		1414R	"	"				
Stephen G & M	159	Per 2 ac/ft	-	-	-	-	-	-
Stewart LG	160	X14229	107 IX	Leaning Rock		-	Pipe	C/T 261/48
Stokes JB	161	No Agreement (per 2 ac/ft)	96 VII	Leaning Rock		-	-	C/T 5D/1272
Strang A	162	No Agreement (Per 2 acre ft)	-	-	-	-	-	-
McDonald PE & EM	163	Pt.X14033					9 acres	
		Pt.13966						
Millen ID & JA	164	X14398	146 I	Leaning Rock			5 acres	C/L 259/65
			Bal.123"	"				
Diver PR	165	Per 2 ac/ft	-	-	-	-	-	-
McKay CG	166	Pipe	-	-	-	-	-	-
Tomkins S & Y	167	Pt.X231638					6.25 acres	
Van Boxtel FA	168	277183	XXXI	Town of Clyde			18 acres	C/T 2/366
			(XXXII	"				C/T
			(XXXIII	"				214/250
			(XXXIV	"				
			intersected by water race as shown on Crown Grants. Respectively registered in the Deeds Register Office at Dunedin as numbers 29026 and 28843					
Lines BA & BA	169	Pt.X14152	Lot 2 DP 18991	Leaning Rock			5 acres	C/T 6C/1138
Day IJ & Morait-Day V	170	Pt.X13966	Lot 3 DP 12755 (being Pt.sec.91 Block VII Leaning Rock SD)				5.5 acres	C/T 6D/1151
Wallis B	171	Pt.X13955	Part: Lot 4 DP 6384 (and being secs.43 & 63 Blk I Leaning Rock SD)					C/T 328/27

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec Blk SD	area		C/T
				total	irrig.	
Weatherall RJ	172	Pt.X14036	(Part:		) 31 acres	206/231
		Pt.X14744	(11S Manuherikia Settlement	)		
		Pt.X14398	Part: 146 I Leaning Rock Bal.123" " )			
Willemsom MG	173	X14001	Lot 6 DP 6384 (being Pt.41 I Leaning Rock and the surface soil of Pt.145 I Leaning Rock)	)	) Pipe & per 2 acre ft.	C/T 328/25
		X14967	Lot 1 DP 6426 (being Pt.secs.8 & 9 Blk. I Leaning Rock SD)	)		C/T 329/6
Southee P	174	Pipe	- - -	-	-	-
Pont JR	175	No Agreement	- - -	-	5 acres	-
Dickson BE & AR	176	Pt.X13991	Lot 3 DP 15286 I Leaning Rock		10 acres	C/T 6B/1070
Winstone SI Ltd	177	X14745	Pt.67 IX Leaning Rock 74 " " )		) Pipe C/L	C/T (340/139 (259/28 (290/114
			105 " " )			
Mackies Nursery Ltd.	178	Pt.X13955	Part: Lot 4 DP 6384 (being secs.43 & 63 Blk I Leaning Rock SD)		7.5 acres	C/T 328/27
Cross NL	179	Pt.X14033		)	) 10 acres	) C/L 315/78
		Pt.X13966	Part: 147 I Leaning Rock 91 VII " )			
Hickey WS Ltd.	180	No Agreement	Lot 4 DP 12794 Leaning Rock	-	7 acres	-
Sutton JD	181	Pt.X13991			6 acres	-
White G	182	Pt.X14398	Part: 146 I Leaning Rock Bal.123 I "		6 acres	C/T 259/65
Lacey PD Mrs.	183	Pt.X13992		-	7 acres	-
Morrow JEA	184	Pt.X14820	Part: 12S Manuherikia 15S Settlement	-	9 acres	C/L 206/236
Smith IK & SL	185	Pt.X14820	Lot 2 DP 15278 (being pt.12S 15S Manuherikia Settlement)	-	9 acres	C/T 6A/52
Agnew LA	186	Pt.X14003	Part: 9S Manuherikia Settlement		19.5 acres	C/L 290/56
Rooney MH	187	No Agreement		-	6 acres	-
Hodder AE	188	No Agreement	Lot 10 DP 12910 Leaning Rock	-	3.5 acres	C/T 60/1145
Doolan J	189	Pt.X13966	Lot 5 DP 12755 Leaning Rock	-	3 acres	-

MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. N <sup>o</sup> .	Sec	Blk	SD	area		C / T
						total	irrig.	
Watt W	190	X16348	Lot 1 DP 16679			-		
			VII Leaning Rock					
			Lot 2 DP 16679					
			VII Leaning Rock					
			(being Pt.sec.103					
			Blk.VII)					
Dobson N	191	Pipe	86	IX	Leaning Rock	-	Pipe	C/T 6D/1177
Lord PB & RG	192	Pipe	105	IX	Leaning Rock	-	-	C/T 5A/365
Dickson T	193	Pt.X13966	Lot 4 DP 12755			-	3 acres	C/T 60/1160
			VII Leaning Rock					
Herron WF & MC	194	Pt.X13991	Lot 4 DP 16286			-	6 acres	6B/1085
			I Leaning Rock					
O'Brien JR & JA	195	Pt.X228265					10 acres	-
Devine J	196	Pipe	-	-	-	-	-	-
Pollock SD & VM	197	Pt.X14170	Lot 5 DP 15290			-	70 acres	C/T's 201/153
			Leaning Rock				)	
			Lot 6 DP 15290				)	3D/408
			Leaning Rock				)	
			Lot 7 DP 15290				)	
			Leaning Rock				)	
			Lot 8 DP 15290				)	
			Leaning Rock				)	
			Lot 9 DP 15290				)	
			Leaning Rock				)	
			Leaning Rock				)	
			Lot 10 DP 15288				)	C/T's Part 286/82
			Leaning Rock				)	
			Lot 11 DP 15288				)	201/153
			Leaning Rock				)	
			Lot 12 DP 15288				)	
			Leaning Rock				)	
			Lot 13 DP 15288				)	
			Leaning Rock				)	
			Lot 14 DP 15288				)	
			Leaning Rock				)	
			Leaning Rock				)	
Brash D	198	Domestic (pipe)	-	-	-	-	-	-
Bennie RA & MJ	199	Pt.X20546	Lot 1 18199				15 acres	
			IX Leaning Rock				)	
			Lot 2 18199				)	
			Leaning Rock				)	C/L 377/68
			Pt.126 IX				)	
			"				)	
			Lot 1 DP 3600				)	C/T 221/3
			VII Leaning Rock				)	
			Lot 2 DP 3600				)	
			VII Leaning Rock				)	
			(being Pt.sec.50 Blk				)	
			VII & Pt.Sec.5/A Blk				)	
			IX Leaning Rock)				)	
Wells RN & JM	200	Pt.X14805	Lot 1 DP 17935				4 acres	C/T 9A/440
			Tiger Hill					
Brent NH	201	Domestic (pipe)	Pt.Lot 5 DP 8542			-	-	-
			Leaning Rock					
Mair IR	202	228241	2 of 65			-	Pipe	382/13 C/T 390/154
			IX Leaning Rock					
			Pt:DP 7021					
			"					
			(being Secs. 1 & 1A					
			Blk IX)					
Roberts T & A	203							



MANUHERIKIA IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
Bryan T & Mathieson R	204	No Agreement	-				15 acres	-
Duncan Bruce F	205	X14091	18	VII	Tiger Hill	)		C/T
			19	"	"	)	353 acres	193/68
		X14087	47	VI	Tiger Hill	)		193/13
			8	VII	"	)		C/T
						)		393/164
Wilson EM	206	X228242	Lot 2 DP	18884	Leaning Rock		1 acre	C/T
Hastie LS	207	X13965	5	IX	Leaning Rock	)	Pipe	52/20
			22	"	"	)		C/L
			80	"	"	)		157/104
			119	"	"	)		167/115
						)		208/39
Axle Orchards	208	X14170	Part:			)	26 acres	C/T
			52A	IX	Leaning Rock	)		201/153
			2 of 65			)		
				VIII	Leaning Rock	)		C/T
			Pt:1285R			)		286/82
				VIII	Leaning Rock	)		
Moffatt MJ & SL	209	X14170	Part:			)	19 acres	C/T
			52A	IX	Leaning Rock	)		201/153
			2 of 65			)		C/T
				VIII	Leaning Rock	)		286/82
			Pt:1285R			)		
				VIII	Leaning Rock	)		
McIvor AL	210	X14152	Lot 1 DP	18991	Leaning Rock		6 acres	Part:
								331/29
								6C/1138

NOTE

Titles will need to be searched to confirm landowners, as updated titles not available.