

Stn. no.	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Dist. (m)	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline	Misc.									
1	0	-	-	-	-	Spillway	Fair	Spillway. Concrete wall 46m long at right angles to flow. Spillway section 15.2m long and buttressed. Rectangular channel along U/S to a slide gate at extreme R.H. end.				350-354	22	
1	45	-	-	-	-	Intake	Fair	Steel gate	Heavily rusted					
2	60	-	-	-	-	Channel	Good	107m long trapezoidal concrete channel.				354		
3	175	-	-	-	-	Silt trap	Okay	Silt trap. Floor of channel curves through sluice gate	Very good design - appears to work well			355-357		
		-	-	-	-	Weir	Good	Bywash weir crest 1.8 m W	Operates at 14 cusecs over Measuring weir					
		-	-	-	-		Good	Bywash gate	Heavy surface rust and leaks					
		-	-	-	-	Weir	Good	Bywash channel concrete lined	Trapezoidal shape					
		-	-	-	-	Drop	Good	Measuring weir - 1.5 m crest sharp edged	1.22 m drop					
4	375	-	-	-	-		Good	900 mm drop. V notch	Into concrete trough					
5	480	/	-	-	-		Good	Concrete pipe culvert 750 mm dia. x 5.2 m L						
		-	-	-	-		Okay	Stone Headwalls						
6	530	-	-	-	-	/	Good	900 mm drop V notch						
7	760	-	-	-	-	/	Good	900 mm drop V notch						
8	790	/	-	-	-		Good	Concrete bridge 4.9 m W						
9	1115	-	/	-	-	-	Okay	500 mm M/B	LHS					
10	1240	/	-	-	-		Good	Concrete pipe culvert 600 mm dia. x 5.0 m L	Into Concrete trough			357A-357C		
		-	-	-	-		Okay	Stone headwalls	Unstable cliff-face MINOR AS for 4 & 6					
11	2240	-	-	-	-	/	Bad	Steel pipe 960 mm dia.	Across race Holes in top					

Stn. No.	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline	Misc.								
12	2250	-	/	-	-	-	Okay	500 mm M/B	Turnout Distrib 'B' Needs cleaning around exit		358	22	
13	2260	-	-	/	-	-	Poor	Steel pipe 380 mm dia.	Carrying water across race, 4 or 5 rust holes in bottom Leaking badly		358		
14	2270		/				Good	500 mm M/B			358		
15	2280	/					Good	Concrete pipe culvert 750 mm dia. x 5.0 m L Stone headwalls			358		
16	2700		/				Good	500 mm M/B					
17	2710	/					Okay	Steel pipe culvert 860 mm dia. x 2.4 m L					
18	3400	/					Okay	Concrete pipe culvert 750 mm dia. x 5.0 m L				28	
19	4020			/			Good	Steel pipe culvert 380 mm dia.	Across race				
20	4150			/			Poor	Steel pipe culvert 320 mm dia.	Across race Base of pipe in race causing constriction				
21	4200	/					Good	Concrete bridge 4.6 m wide					
22	4430	-		/			Poor	Steel pipe culvert 360 mm dia.	Pipe partially submerged in race Water percolating along the outside of the pipe into farmers private race				
23	4450	-	500 MB				Good	500 mm M/B	Needs more cover				
24	4470	/					Good	Concrete pipe culvert 750 mm dia. x 4.9 m L Stone headwalls					
							Poor						

REASSESSMENT OF SCHEME: OMAKAU										RACE: LAUDER CREEK MAIN			DATE: 29.1.85		sheet 99 of 133	
Stn. No.	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Dist. Ass.	Access	Photo no.	Drawing no.		
		Acc-X	T/Obox	Pipeline	Misc.											
25	4900	/	/	/			Okay	500 mm M/B	Turnout to Lauder Distrib. 'C'				28			
26	4920	/	/	/			Poor	Steel pipe 300 mm dia.	Over race							
27	4940	/	/	/			Good	Concrete bridge 4.1 m W	On farm road							
28	5000	/	/	/			V.Bad	Wooden Bridge 2.1 m W	One end almost in race. Should be removed and replaced							
29	5220	-	/	-		-	Good	500 mm M/B								
30	5230	/	/	/			Good	Concrete pipe culvert 600 mm dia. x 4.9 m L								
31	5490	/	/	/			Okay	Stone headwalls downstream only	Turnout to Distrib. 'D'							
32	5580	/	-	-		-	Okay	750 mm M/B								
33	5880	/	/	/			Okay	Concrete pipe culvert 450 mm dia. x 4.9 m L								
34	5900	/	/	/			Good	Stone headwall upstream only	Leaks badly							
35	6040	/	/	/			Poor	Concrete pipe culvert 600 mm dia. x 9.4 m L	Two with ends in race							
36	6160	/	/	/			V.Bad	500 mm M/B								
37	6260	/	/	/			Okay	Wooden Bridge 3 x Railway sleepers								
							Okay	Bywash with steel gate on concrete pipe 600 mm dia. x 19.5 m L	LHS Steel gate not hinged to concrete but leant against, hence bad leakage Control in race RHS			359,360				
							Good	500 mm Concrete headwall upstream								
							Good	Bywash pipe end is down in concrete box well. Lip of well 1.8 m above WL of creek								
							Good	Pumphouse	Belongs to farmer Not MWD				361			

REASSESSMENT OF SCHEME: OMAKAU										RACE: LAUDER CREEK MAIN				DATE: 29.1.85		sheet 100 of 133	
Line No.	Dist. (m)	I			T		E	M	Cond.	Detail	Remarks	Last Obs.	Access	Photo no.	Drawing no.		
		Acc-X	T/Obox	Pipeline	Misc.												
38	6270							Bad	Steel pipe culvert 320 mm dia. x 6.0 m L Concrete headwall upstream only	Directs water into creek bed Last 2.0 m of pipe badly holed by rust			362,363	28			
39	6550	-	-	/	-			Fair	Steel pipe culvert 380 mm dia. x 16.6 m	Under road Downstream end of pipe looks badly corroded			364				
40	6620	/						Fair	Steel pipe culvert 600 mm dia. x 6.3 m L								
41	6820							Okay	Concrete pipe culvert 450 mm dia. x 5.0 m L								
42	6830							Okay	Steel gate on 375 mm dia. aperature in concrete wall	Intake from creek controls flow also controls sod bywash							
43	7000	/						Good	Concrete pipe culvert 525 mm dia. x 4.9 m L								
44	7080	/						Okay	500 mm M/B	Headgate loose							
45	7090	/						Good	Concrete pipe culvert 525 mm dia. x 4.9 m L	Steel plate put over culvert end. Held by water pressure. Leaks appallingly. Needs proper head gate.							
46	7180	-	/					Poor	500 mm M/B	Headgate loose							
47	7190	/						Good	Steel gate on 525 mm dia. concrete pipe x 2.4								
48	7300	-	/					Okay	50 mm steel pipe								
49	7350	-	-		/			Good	V notch drop 1.22 m								
50	7420	-	-		/			Good	900 mm V notch drop								
51	7430	/						Poor	Steel pipe culvert 520 mm dia. x 4.5 m L								

Stitch	Dist. (m)	I T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline						
52	7480				Okay	900 mm V notch drop	Outlet of 450 mm feeds direct into a concrete trough which feeds the 300 mm pipe Height diff. about 1 m	365	28	
53	7500	/			Good	Concrete pipe culvert 450 mm dia. x 5.0 m L				
54	7520	/			Okay	Concrete pipe culvert 300 mm dia. x 7.4 m L		365		
55	7600	/			Good	Concrete headwall upstream only				
56	7730	/			Good	Concrete pipe culvert 375 mm dia. x 5.0 m L	Pipe feeds channel & leakage occurs at this point and comes out under the spillway abutment	366,367		
57	7790	/			Fair	Concrete channel 450 mm wide spillway	Ends broken			
58	8200	/			Good	Concrete pipe culvert 525 mm dia. x 4.2 m L	Services sod T/O		34	
59	8300	/			Good	Stone headwalls				
60	8710	/			Good	Concrete and wood stop 500 mm D x 800 mm W				
61	8700	/			Good	Concrete pipe culvert 450 mm dia. x 2.5 m L				
62	9170	/			Good	Concrete pipe syphon 450 mm dia. x 9.7 m L				
63	9350	/			Okay	Concrete pipe culvert 450 mm dia. x 5.0 m L	Creek enters			
					Bad	2 x 300 mm concrete planks	Too low, sited at water level		33	
					Okay	Concrete pipe culvert 450 mm dia. x 4.9 m L				
					V.Bad	4 x 300 mm concrete planks	Too low. Three are below water level			

REASSESSMENT OF SCHEME: OMAKAU										RACE: LAUDER CREEK MAIN				DATE: 30.1.85				sheet 102 of 133			
Stitch	Dist. (m)	I		T		E		M	Cond.	Detail	Remarks	Last Obs.	Access	Photo no.	Drawing no.						
		Acc-X	T/Obox	Pipeline	Misc.																
64	9350	/	-	-	-	-	-	Okay	Concrete pipe culvert 450 mm dia. x 5.0 m L	Blocked. It has not been used for a while					33						
65	9430	-	/	-	-	-	-	Bad	500 mm M/B												
66	9860	/	-	-	-	-	-	Okay	Concrete pipe culvert 375 mm dia. x 5.0 m L												
67	11060	-	/	-	-	-	-	V.Bad	500 mm M/B	No headgate. Control for sod T/O for water other side of road Under Huddleston Rd.											
67	a) 20	-	-	-	/	-	-	Poor	Concrete pipe culvert 300 mm dia. x 7.3												
68	11280	/	-	-	-	-	-	Okay	Concrete pipe culvert 375 mm dia. x 3.7 m L												
69	11500	-	-	-	-	-	/	Fair	Steel gate on 375 mm dia. concrete pipe x 1.3 m L	Services a RHS & LHS sod T/O Under Huddleston Rd.											
69	a) 10	-	-	-	/	-	-	Fair	Concrete pipe culvert 300 mm dia. x 7.3 m L												
70	15810	-	-	-	-	-	-	Good	500 mm M/B	LHS											
70	a) 10	-	/	-	-	-	-	Fair	Concrete pipe culvert 300 mm dia. x 6.8 m L	Ends broken Under Huddleston Rd.					39						
71	15815	-	-	-	/	-	-	Okay	Steel gate on 375 mm dia. concrete pipe x 2.6 m L	Used as control in race for M/B											
72	16100	/	-	-	-	-	-	Okay	Concrete pipe culvert 375 mm dia. x 5.0 m L												
73	16800	/	-	-	-	-	-	Okay	Concrete pipe culvert 450 mm dia. x 5.0 m L						40						

REASSESSMENT OF SCHEME: OMAKAU										LAUDER MAIN DISTRIBUTARIES			30.1.85		sheet 103 of 133	
RACE: "B" DISTRIBUTARY										DATE:						
NO. 12 LAUDER MAIN																
STRUCT.	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Dist. G.S.	Access	Photo no.	Drawing no.		
		Acc-X	T/Obox	Pipeline	Misc.											
1	160	/	-	-	-	-	Okay	3050 m long Waterway 450 mm wide x 225 mm deep Capacity - 3 cusecs Concrete pipe culvert 300 mm dia. x 4.9 m					22			
2	270	-	-	Syphon	-	-	Good	Concrete pipe syphon 300 mm dia. x 10.7 m L Concrete headwalls	Downstream headwall Cracked down the middle			368,369	23			
3	310	/	-	-	-	-	Fair	Concrete pipe culvert 375 mm dia. x 2.6 m L								
4	1100	-	-	-	-	/	Good	Twin concrete flumes 250 mm D x 380 mm W								
5	1180	-	-	-	-	/	Good	Concrete V notch weir drop 900 mm	Very overgrown							
6	1350	/	-	-	-	-	Fair	Concrete pipe culvert 300 mm dia. x 5.0 m L	Overgrown. Constriction in water flow							
7	1500	/	-	-	-	-	Okay	Concrete pipe culvert 300 mm dia. x 4.9 m L	Overgrown							
8	1820	/	-	-	-	-	Okay	Concrete pipe culvert 300 mm dia. x 4.9 m L								
9	2200	/	-	-	-	-	Okay	Concrete pipe culvert 300 mm dia. x 3.7 m L					29			
10	2820	-	-	/	-	-	Poor	Steel pipe 420 mm dia. x 900 mm L	Under fence							
11	310	-	-	/	-	-	Good	Concrete pipe culvert 300 mm dia. x 11.4 m L Stone headwalls								



REASSESSMENT OF SCHEME: OMAKAU										RACE: LAUDER MAIN		DATE: 31.1.85		sheet 104 of 133	
Struct.	Dist. (m)	I		E		M	Cond.	Detail	Remarks	Dist.	Access	Photo no.	Drawing no.		
		Acc-X	T/O	Pipe	Misc.										
1	500	/	-	-	-	-	Good	Starts No. 23 Lauder Main Waterway 750 mm wide x 305 mm deep Length - 2950 m Capacity - 3 cusecs	Under Glassford Road				28		
2	510	/	-	-	-	-	Good Good	Concrete pipe culvert 450 mm dia. x 5 m L Concrete pipe syphon 375 mm dia. x 9.8 m Concrete headwall	Takes MWD race over Private Water right race. Water entering private race underneath pipe upstream end.				29		
3	770	-	-	/	-	-	Okay	Steel pipe flume 660 mm dia. x 6.3 m L	Leaks						
4	1900	-	-	/	-	-	Bad	Steel pipe flume	Race falls 6 m						
5	2060	-	-	-	/	-	Okay	Concrete channel down hill Length 35.7 m x 370 mm wide x 260 mm deep	Makes joints water tight at inlet also. Between structures 5 & 6 race needs recutting						
6	2140	/	-	-	-	-	Okay Good	Concrete pipe culvert 300 mm dia. x 4.6 Stone headwalls	Takes race over creek						
7	2300	-	-	-	/	-	Good Good	Steel pipe flume 560 mm dia. x 6.2 m L Concrete pipe syphon 450 mm dia. Concrete headwalls	Pipe under race No. Dist. 2A race used for private water right						
9	2510	/	-	-	-	-	Okay	Concrete pipe culvert 300 mm dia. x 4.8 m L	Used as measuring control						
10	2780	-	/	-	-	-	Good	500 mm M/B							
11	2860	/	-	-	-	-	Okay Okay	Concrete pipe culvert 300 mm dia. x 3.7 m L Stone headwalls							

REASSESSMENT OF SCHEME: OMAKAU		LAUDER MAIN		RACE: DISTRI. 'D'		LAUDER MAIN		DATE: 31.1.85		sheet 105 of 133		
Struct.	Dist. (m)	T		E	M.	Cond.	Detail	Remarks	Last Obs.	Access	Photo no.	Drawing no.
		Box	Pipeline									
1	200	-	/	-	-	Good	Length - 3300 m Capacity - 4 cusecs Waterway 1 m wide x 305 mm deep Concrete pipe culvert 450 mm dia. x 12.0 m L. Concrete headwalls	Under Glassford Road Downstream headwalls forms part of the three way T/O (No. 2.)				28
2	240	/	/	/	/	Good	Steel gate on 1.0 m D x 420 mm W T/O Steel gate on 1.0 m D x 420 mm W T/O 750 mm measuring box	LHS RHS				
3	550	/	/	/	/	Fair	Steel pipe culvert 480 mm dia. x 3.6 m L					
4	575	/	/	/	/	Fair	Steel pipe culvert 480 mm dia. x 4.4 m L					
5	600	/	/	/	/	Good	Stone and steel T/O 400 mm D x 1.15 m W Concrete and steel stop 550 mm D x 1.15 m W	LHS				
6	850	/	/	/	/	Fair	Steel pipe culvert 480 mm D x 2.4 m L					
7	860	/	/	/	/	Fair	Steel pipe culvert 480 mm D x 4.4 m L					
8	880	/	/	/	/	Good	Concrete and steel T/O 320 mm D x 1.15 m W Concrete and steel stop 550 mm D x 1.15 m W	LHS				
9	1250	/	/	/	/	Good	Concrete pipe culvert 450 mm dia. x 5.0 m L Stone headwall upstream only					
10	1430	/	/	/	/	Good	Concrete pipe culvert 375 mm dia. x 5.0 m L Stone headwalls					
11	1650	/	/	/	/	Good	Steel headgate on 375 mm dia. concrete pipe x 1.3 m L Steel headgate on 300 mm dia. concrete pipe x 1.0 m L	T/O to Distrib. D1				
12	1820	/	/	/	/	Okay	Concrete pipe culvert 375 mm dia. x 5.0 m L					

Structure	Dist. (m)	I	E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
			Acc-X	Pipeline							
13	1850		/			Good	Concrete weir T/O	When stop is working water rises up and flows into H/R			34
14			/		/	Good	Concrete and steel stop 550 mm D x 1.15 m W				
14	2100	/			/	Okay	Steel gate on 375 mm dia. concrete pipe x 1.3 m L	Distrib. D2 T/O			
14			/			Okay	Concrete pipe culvert 375 mm dia. x 5.0 m L	Steel sheet placed over end of culvert to service T/O			
15	2350					Poor	Concrete pipe culvert 300 mm dia. x 4.5 m L	Water has eroded fill over upstream end back about 500 mm			
16	2470				/	Good	Concrete channel 250 mm D x 360 mm W x 2.9 m L				
17	2645	/				Okay	Concrete pipe culvert 375 mm dia. x 7.5				
18	3300	-	-	-	/	Poor	500 mm M/B	In race and used as flow measurement. Headgate broken off and slide at back of box broken			

REASSESSMENT OF SCHEME: OMAKAU

RACE: DISTRIB. D1 FROM NO. 11 DISTRIB. D

DATE: 31.1.85

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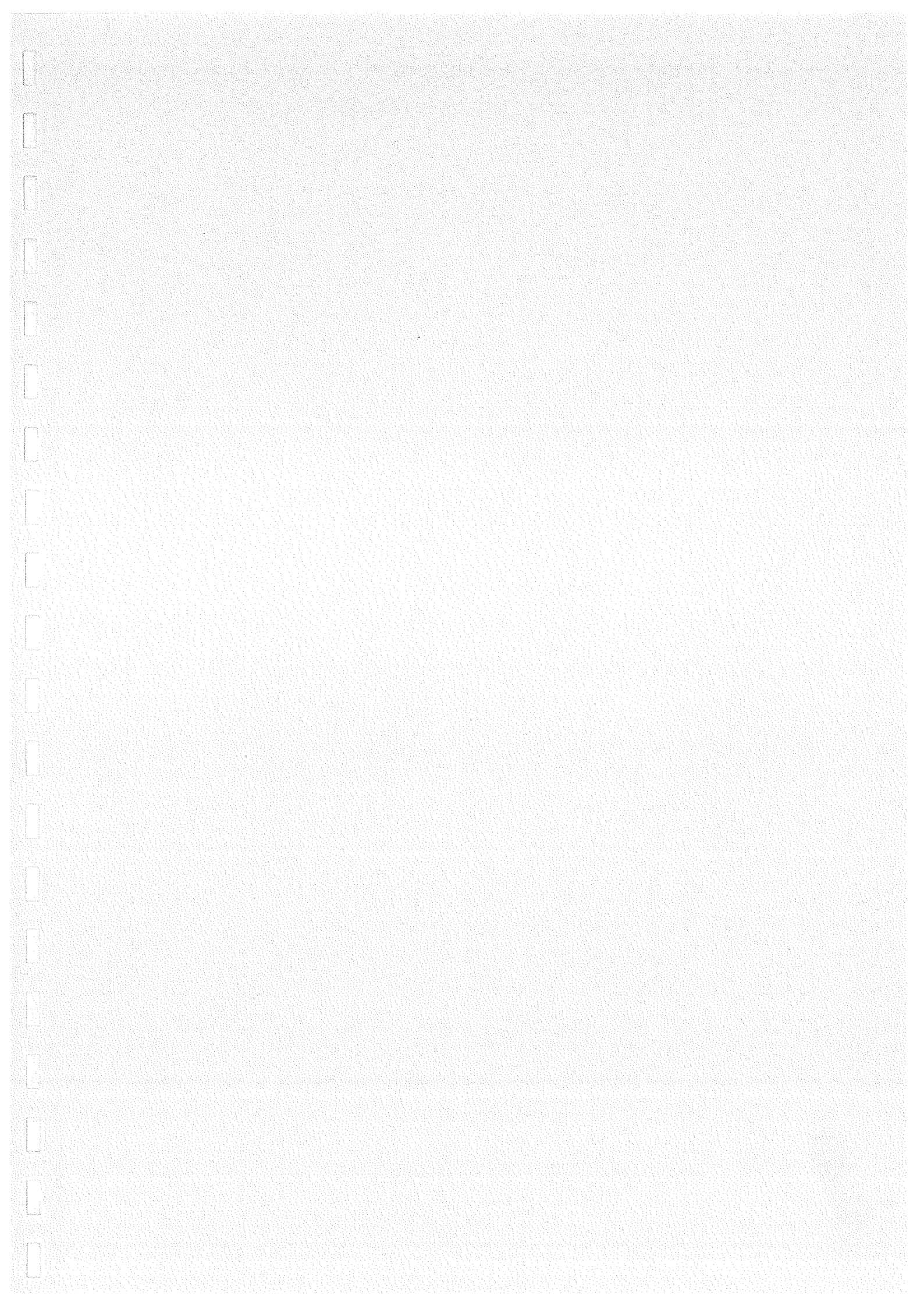
ST. NO.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Last Obs.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
1	520		/		Good	Length 1219 m Concrete and steel T/O 300 mm D x 750 mm W					34
2	530		/		Good	Concrete and steel T/O 300 mm D x 750 mm W					
3	750			/	Good	Concrete and steel stop 300 mm D x 750 mm W					
4	940			/	Good	Concrete and steel stop 300 mm D x 750 mm W					
5	1200			/	Fair	500 mm M/B	Services sod T/O				
							Services sod T/O				
							In race to measure flow No headgate				

REASSESSMENT OF SCHEME: OMAKAU

RACE: DISTRIB. 'D2' FROM DATE: 31.1.83  
 (MAIN) DISTRIB. 'D' STARTS NO. 14

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Dist. (m)	I	T	E		M	Cond.	Detail	Remarks	Ass.	Access	Photo no.	Drawing no.
			Acc-X	Pipeline								
1 800	-	/	-	-	-	Bad	Waterway 600 mm wide x 225 mm deep x 808 m long 500 mm M/B	For measuring flow No headgate Screws on slide at back - one broken off and one badly bent				34



District	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Last Obs.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline	Misc.									
1	0						Fair	Intake : Thomsons Intake Curved weir	MAJOR Cracks showing seepage. Leaking			370-373	27	
2	490						Fair	Bywash gate	Some cracks and spalling. Leaking badly					
3	510	/					Good	Intake gate	Timber deck planks rotted and broken					
4	830	-	/				Good	Steel lipped weir	LHS Turnout to Matakanui A					
5	940	-					Fair	Concrete channel 18.3 m L	Under Thompson's Gorge Road					
6	1280	-					Okay	Bywash (750 mm M/B)	LHS Turnout to Matakanui B					
7	1310	-	/				Okay	Wooden Bridge	Control in race					
8	1330	-					Bad	Wooden bridge 1.8 m wide	Supplies sump for quarry purposes					
9	1820	-	/				Okay	750 mm M/B	Under race					
10	1850	/					Okay	Steel pipe culvert 920 mm dia. x 47 m L Rock headwalls						
11	1970	-					Fair	Concrete pipe culvert 950 mm dia. x 9.90						
12	1980	/					Okay	750 mm M/B						

BENCHED LHS

REASSESSMENT OF SCHEME:

Stn. No.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/O box	Pipeline						
13	2310	/			V.Bad	Concrete pipe culvert 750 mm dia. x 3.7 m L	Under Sugar Pot Road Top of culvert broken 1.5 m from downstream end re-inforcing exposed. Reason for damage: not enough cover	374,375	27	
14	2600	-	/	-	Okay	500 mm M/B	T/O			
15	2840	/			Okay	Concrete pipe culvert 525 mm dia. x 9.2 m L Stone headwalls				
16	3210	-	/	-	Good	525 mm square concrete culvert Approx. 46 m long			33	
17	3450		/		V.Bad	PVC pipe 150 mm dia.	Scour at D/S so bad that a 4.6 m length of tunnel lining undercut and broke off. Invert of tunnel now 2.5-3 m above bottom of scour hole			
18	3460	/			Good	Twin concrete pipe culvert 375 mm x 2.6 m L Rock headwalls				
19	3640		/	/	Good	500 mm M/B Steel gate on 525 mm dia. concrete pipe x 2.6 m L			32	
20	3750	-	/	-	Okay	450 mm dia. concrete pipe syphon Concrete headwalls	Across gully. "Matakanui Hotel Syphon"	376,377		
21	4140		/	/	Good	Concrete pipe culvert 750 mm dia. Concrete headwalls	Under race			
22	4830	-	-	/	Good	1.65 m W x 450 mm deep concrete flume	Across race. Daily flow goes under the concrete outlet apron			



REASSESSMENT OF SCHEME: OMAKAU

RACE: MATAKANUI MAIN

DATE: 5.2.85

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Struct. No.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Last Ass.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
23	5030	-	-	/	Good	113 m x 450 mm dia. concrete pipe syphon	Taylor's syphon				32
24	5290	/	-	-	Good	Concrete headwalls	Decking needs to be replaced				
25	5200	-	-	-	Poor	Wooden bridge 3.6 m W	Needs lifting and straightening				
26	5340	-	/	-	Okay	Concrete flume 200 mm D x 400 mm W	LHS				
27	5695	/	-	-	Fair	500 mm M/B					
28	5870	/	-	-	Good	Wooden bridge 900 mm W					
29	6880	/	-	-	Okay	Wooden bridge 1.2 m W					
30	6890	/	-	-	Poor	Wooden bridge 2.7 m W	Needs redecking				
31	5900	-	/	-	Good	Concrete pipe culvert 450 mm dia. x 5.0 m L					
32	5980	/	-	-	Okay	500 mm M/B	LHS. Leaks				
33	6095	-	-	/	Bad	Wooden bridge 3.5 m W	Needs redecking				
34	6100	-	/	-	Poor	Steel pipe culvert 225 mm dia.	Across race Needs lifting causing restriction to flow				
35	6430	/	-	-	Okay	500 mm M/B	LHS				
36	6520	-	-	-	Good	Concrete pipe culvert 450 mm dia. x 5.0 m L					
37	6870	-	/	-	Okay	Concrete pipe culvert 300 mm dia.	Under race				
38	6875	/	-	-	Okay	500 mm M/B	LHS				
39	7200	-	/	-	Good	Concrete pipe culvert 750 mm dia. x 5.0 m L					
40	7205	-	-	/	Okay	Stone headwalls					
		-	/	-	Good	500 mm M/B	LHS				
		-	-	-	Good	4.9 m x 525 mm dia. concrete pipe	Under Duggan Road				

Dist. (m)	I T E M			Cond.	Detail	Remarks	Dist	Access	Photo no.	Drawing no.
	Acc-X	T/Obox	Pipeline Misc.							
41 7270	/			Fair	2.9 m wide wooden bridge	Under race				32
42 7340		/		Okay	Concrete pipe culvert 375 mm dia.	Control in race				
43 7370			/	Fair	Steel gate on 300 mm dia. x 1.2 m L concrete pipe					
44 7480	/			Okay	Concrete pipe culvert 600 mm dia. x 5.0 m L					
45 7500	-	/	-	Fair	500 mm M/B	LHS Distrib. E T/O				
46 7510	-	/	-	Okay	500 mm M/B	LHS				
47 7750	/			Poor	Wooden bridge 2.25 m W					
48 7860	/			Good	Concrete pipe culvert 600 mm dia. x 5.0 m L					
49 7900	-		/	Okay	Steel gate on 375 mm dia. concrete pipe x 1.4 m L	Services sod T/O				
50 8240	/		-	Fair	Wood Bridge 1.2 m W	Needs some redecking				
51 8320	-	/	-	Fair	500 mm M/B	LHS				
52 8400	/		-	Okay	Concrete pipe culvert 600 mm dia. x 5.0 m L					
53 8520			/	Good	Steel pipe culvert 960 mm dia.	Across race				
54 8700		/		Okay	500 mm M/B	Distrib. F T/O				
55 8860	/		-	Okay	Wooden bridge 4.1 m W					
56 9100	-	/	-	Poor	750 mm M/B	LHS Distrib. G T/O Leaks severely around headgate				
57 9200	/		-	Okay	Concrete pipe culvert 375 mm dia. x 3.6 m L					
58 9450	/			Okay	Concrete pipe culvert 375 mm dia. x 4.8 m L					38

Dist. (m)	I		E	M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
	A	T								
	X	T/Obox	Pipeline	Misc.						
59	9790	/	-	-	Okay	500 mm M/B	LHS. Leaks			38
60	9760	/	-	-	Fair	Concrete pipe culvert 375 mm dia. x 2.4	No cover over pipe			
61	9970	/	-	-	Fair Okay	500 mm M/B Concrete and wood stop 560 mm D x 760 mm W	LHS. Leaking			
62	10230	/	-	/	Okay	Steel gate on 450 mm dia. concrete pipe x 3.9 m L	Services sod T/O			
63	10320	-	/	-	Fair	500 mm M/B	LHS. Leaks			
64	10400	/	-	-	Okay	Steel pipe culvert 560 mm dia. x 2.8 m L				
65	10620	/	-	-	Okay	Concrete pipe culvert 375 mm dia. x 4.9 m L				
66	10770	/	-	-	V.Bad	Wooden bridge 2.74 m wide	Should be removed			
67	11060	-	/	-	Okay	500 mm M/B	LHS			
68	11570	-	-	/	Good Good	Syphon 30 m x 300 mm dia. Concrete headwalls			379,380	
69	11690	-	/	-	V.Bad	500 mm M/B	LHS. Headgate off blocked off by sods. Needs replacing			
70	12000	/	-	-	Okay	Concrete pipe culvert 375 mm dia. x 5.0 m L				
71	12410	-	/	-	Okay	500 mm M/B	LHS. Distrib. H T/O  Race ends			

REASSESSMENT OF SCHEME: OMAKAU										RACE: MATAKANUI MAIN			DATE:			sheet 114 of 133		
Stn. No.	Dist. (m)	I		E		M	Cond.	Detail	Remarks	Dist	Access	Photo no.	Drawing no.					
		Acc-X	T/Obox	Pipeline	Misc.													
1	0	-	-	Syphon	-	Poor	Concrete pipe syphon 375 mm dia. x 244 m	Across Thompson's Creek Seepage leaking at joints along the bottom and uphill leg MINOR			381-383	27						
2	710	/				Good	Concrete headwalls											
3	800		/		/	Poor	Concrete pipe culvert 375 mm dia. x 2.2 m L Pumphouse Galv. pipe 100 mm dia. inlet	(Farmers			384							
4	960	/				Good	Concrete pipe culvert 375 mm dia. x 5.0 m L	No use										
5	1760	/				Bad	Wooden bridge 2.2 m W											
6	2340	/				Okay	Concrete pipe culvert 300 mm dia. x 2.6 m L											
7	2870	/				V.Bad	Wooden bridge 2.0 m L	Unsafe for vehicles										
8	3260	/				Poor	Concrete pipe culvert 375 mm dia. x 2.3 m L	Ends broken										
9	4140	/				Poor	Concrete pipe culvert 375 mm dia. x 4.9 m L	Ends broken										
10	4630	/				Poor	Concrete pipe culvert 375 mm dia. x 2.5 m L											
11	4800	/			/	Okay	Steel gate on 450 mm dia. concrete pipe x 1.3 m L	Services sod T/O				28						
						Fair	Steel pipe culvert 380 mm dia. x 7.7 m L	Under boundary fence. Access both sides										



Station	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline	Misc.								
18	2740	/	-	-	-	-	Fair	Concrete pipe culvert 375 mm dia. x 4.9 m L	Ends broken			33	
19	2770	-	-	/	-	-	Good	Concrete pipe culvert 450 mm dia. x 8.6 m L Concrete headwalls	Under Naylor Road				
20	2800	-	/	-	-	-	Good	750 mm M/B Concrete	LHS T/O to Dist. B2				
21	2830	-	/	-	-	/	Bad	500 mm M/B	LHS Leaks badly Steel slide at bank seized Leaks				
22	3430	-	/	-	-	-	Poor	Steel gate on 375 mm dia. concrete pipe x 1.3 m L 500 mm M/B	LHS Not adjustable Needs concrete stop				
23	3510	/	-	-	-	-	Okay	Concrete pipe culvert 375 mm dia. x 5.0 m L					
24	3525	-	/	-	-	-	Okay	Concrete pipe T/O 375 mm dia. x 700 mm L	Circular sheet of metal over mouth of pipe to stop it operating. Needs gate				
25	3970	-	-	-	/	-	Good	Concrete and wood stop 580 mm D x 750 mm W	Services sod T/O				
26	4050	/	-	-	-	-	Okay	Concrete pipe culvert 300 mm dia. x 4.8 m L Stone headwalls					
27	4230	-	/	-	-	/	Okay	500 mm M/B Concrete pipe culvert 375 mm dia. x 2.5 m L	Control in race No headgate Sheet of metal used to make culvert into stop				

Structure	Dist. (m)	I T E M			Cond.	Detail	Remarks	Ass.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
28	4340	/	/	/	Poor Poor Poor	Concrete pipe T/O 375 mm dia. x 650 mm L Concrete pipe T/O 375 mm dia. x 650 mm L Concrete pipe stop 375 mm dia. x 1.4 m L	(No headgates at all (44 gal drum tops (used as pipe stops				33
29	4570	/			Okay	Concrete pipe culvert 300 mm dia.x 4.5 m L					
30	4660	-	-	-	Okay	Steel gate on 375 mm dia. concrete pipe x 1.3 m L	Services 2 sod T/O (1 LHS & 1 RHS)				39
							End of Race				

REASSESSMENT OF STRUCTURE										NAME: OMAKAU			RACE: "B" RACE DISTRICTS, DATE: 11.2.85			MATAKANUI			sheet 118 of 133		
STRUCT. NO.	Dist. (m)	I		T		M		Cond.	Detail	Remarks	Dist. Ass.	Access	Photo no.	Drawing no.							
		Acc-X	T/Obox	Pip	Misc.																
1	40	-	-	/	-	-	-	Okay	600 mm wide x 2.74 m deep Length - 22.0 m Concrete pipe culvert 400 mm dia. x 6.2 m L	Under Thomsons Gorge Road				27							
2	70	-	-	/	-	-	-	Poor	500 mm M/B	No screw adjustors on Pressure Board											
3	120	/	-	-	-	-	-	Okay	Concrete pipe culvert 300 mm dia. x 3.5 m L Stone headwalls												
4	250	/	-	-	-	-	-	V.Bad	Concrete pipe culvert 375 mm dia. x 2.7 m L	Most of the top of the pipe has broken off. Needs re-placing				33							
5	700	-	-	-	-	/	-	Good	Concrete pipe culvert drop 300 mm dia. x 9.3 m L Concrete headwall upstream only	Down creek bank			388,389								
6	820	/	-	-	-	-	-	Good	Concrete pipe culvert 375 mm dia. x 5.0 m L												
7	1000	-	-	-	-	-	-	Good	Concrete pipe culvert 300 mm dia. x 9.1 m L Concrete headwalls	Race falls into concrete well at inlet of culvert			390								
8	1100	-	-	/	-	-	-	Okay Good	Concrete pipe syphon 375 mm dia. x 46 m L Concrete headwalls	Under Thompson's Creek MINOR			391-393								
9	1560	/	-	-	-	-	-	Okay	Concrete pipe culvert 450 mm dia. x 3.7 m L												
10	1750	-	-	/	-	-	-	Good	Concrete pipe culvert 300 mm dia. x 31.5 m L	Under Glassford Road											
11	1820	-	-	/	-	-	-	Fair	500 mm M/B	RHS											
12	1860	/	-	-	-	-	-	Okay	Concrete pipe culvert 375 mm dia. x 3.7 m												
13	2250	/	-	-	-	-	-	Okay	Concrete pipe culvert 300 mm dia. x 4.8 m												



REASSESSMENT OF SCHEME: ONAKAU										"B" RACE: DISTRIB. 2		DATE: 11.2.85		sheet 119 of 113	
Structure	Dist. (m)	I			E		Cond.	Detail	Remarks	Dist. Access	Photo no.	Drawing no.			
		Acc-X	T/O	box	Pipeline	Misc.									
1	10	/	-	-	-	Okay	Waterway 600 mm wide x 225 mm deep Length 1850 m					33			
2	500	/				Good	Concrete pipe culvert 300 mm dia. x 4.3 m L								
3	800	/				Okay	Wooden Bridge 2.0 m W								
4	1440	/	/		/	Good Good	Concrete pipe culvert 375 mm dia. x 2.5 m L Concrete and wood T/O 470 mm D x 400 mm W Concrete and wood stop 470 mm D x 670 mm W								
5	1620				/	Bad	500 mm M/B	Used as control							
6	1650	-	-	-	/	Okay	Concrete flume 250 mm D x 360 mm W	Measurement slide jammed. Top of box has hole in it				39			

REASSESSMENT OF SCHEME: OMAKAU

MATAKANUI MAIN  
 RACE: SHANNON'S DISTRIB.  
 FROM NO. 14 MATAKANUI MAIN

DATE: 13.2.85

sheet 120 of 133

Structure	Dist. (m)	I T E M			Cond.	Detail	Remarks	Inst	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
1	1120			/	Fair	Waterway 900 mm wide x 225 mm deep Length 300m	In race as control at outlet of pond				33
2	1970	/			Okay	Steel gate on 300 mm dia. concrete pipe x 1.4 m L Concrete pipe culvert 375 mm dia. x 2.5 m L					
3	1975		/		Fair	Concrete pipe T/O 375 mm dia. x 700 mm L	Metal stop (200 L drum top) held against pipe by sods				
4	2050		/		Fair	Concrete pipe T/O 450 mm dia. x 700 mm L	Metal stop (200 L drum top) held against pipe by sods				
5	2150		/		Fair	Concrete pipe T/O 450 mm dia. x 700 mm L	Metal stop (200 L drum top) held against pipe by sods				
6	2250	/			Okay	Concrete pipe culvert 375 mm dia. x 2.5 m L	Pressure plate rusted in place. Leaks				
7	2255		/		Bad	500 mm M/B					

REASSESSMENT OF SCHEME: OMAKAU

RACE: BERRY'S RACE  
NO. 19 - MATAKANUI MAIN

DATE: 13.2.85

sheet 121 of 133

Line No.	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Gst	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline	Misc.									
1	0	-	/	-	-	-	Okay	500 mm M/B	Leads to race				33	
2	200	/	-	-	-	-	Fair	Concrete pipe culvert 375 mm dia. x 1.3 m L	U/S end covered in times of flood and water flows over berm					
3	440	-	-	-	/	-	Good	Concrete pipe culvert drop 300 mm dia. x 37 m	Has a steel sheet for a stop. Farmers water right race					
4	560	/	-	-	-	-	Okay	Concrete pipe culvert 225 mm dia. x 3.8 m L	Under driveway					
5	600	-	-	/	-	-	Good	Concrete pipe culvert 375 mm dia. x 7.6 m L	Across race					
6	630	-	-	-	/	-	Okay	PVC pipe 150 mm dia.	Across race					
7	800	-	/	-	-	-	Poor	Concrete flume 250 mm D x 380 mm W	For flow measurement				39	
		-	-	/	-	-	Fair	500 mm M/B						
		-	-	-	-	-	Fair	Concrete pipe culvert 375 mm dia. x 9.6 m L						

REASSESSMENT OF SCHEME: OMAKAU										DISTRIB. "D" RACE: FROM MATAKANUI MAIN STRUCTURE 39				DATE: 13.2.85		sheet 122 of 133	
Struct.	Dist. (m)	I		T		E		M	Cond.	Detail	Remarks	Dist. Ass.	Access	Photo no.	Drawing no.		
		Acc-X	T/Obox	Pipeline	Misc.												
1	350	/							Okay	Waterway 225 mm deep Length - 970 m Capacity - 2 cusecs Concrete pipe culvert 375 mm dia. x 6.1 m L					32		
2	410				/				Good	Concrete and wood stop 550 mm D x 760 mm W							
3	710	/			/				Fair	Steel gate on 375 mm dia. concrete pipe x 3.7 m	Needs fill over pipe. Water overflows RHS bank.			394			
4	910	-		/	/				Fair Bad	Concrete pipe culvert 150 mm dia. x 2.2m L 500 mm M/B	Pressure plate seized. No head-gate control in race as control Needs fill over box						

REASSESSMENT OF SCHEME: OMAKAU

RACE: DISTRIB. "E"  
STARTS NO. 45 MATAKANUI MAIN

DATE:

sheet 123 of 133

Struct.	Dist. (m)	I T E M			Cond.	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline					
1	220	/	-	-	Okay	Waterway 450 mm wide x 225 mm deep Length 220 m Capacity - 2 cusecs Concrete pipe culvert 375 mm dia. x 3.6 m L			32

REASSESSMENT OF SCHEME: OMAKAU

RACE: DISTRIB. "F"  
FROM NO. 54 MATAKANUI MAIN

DATE: 13.2.85

sheet 124 of 133

Struct.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Last Ass.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
1	140	-	-	/	Okay	Length 1740 m Capacity - 2 cusecs Concrete pipe culvert 200 mm dia.	Under race				32
2	200	/	-	-	Okay	Concrete pipe culvert 375 mm dia. x 4.9 m	Needs cover				
3	750	/	-	-	Okay	Concrete pipe culvert 300 mm dia. x 3.75 m L	Needs cover				38
4	770	/	-	-	Poor	2 x 40 gallon drums					
5	1100	/	-	-	Okay	Concrete pipe culvert 375 mm dia. x 1.4 m L					
6	1110	-	-	/	Bad	Concrete and wood stop 300 mm W x 759 mm W	Just about falling over				
7	1290	-	-	/	Bad	Concrete and wood stop 300 mm W x 750 mm W	Just about falling over				
8	1140	-	-	/	Okay	Concrete stop and drop 300 mm				395	
9	1030	-	-	/	Okay	Concrete stop and drop 300 mm				396	
10	1740	-	-	/	V.Bad	Concrete pipe culvert 300 mm dia. x 7.6 m L	Race flows into water table instead of the pipe under road			397	

REASSESSMENT OF SCHEME: OMAKAU RACE: "G" RACE DATE: 14.2.85 sheet 125 of 133

FROM NO. 56 MATAKANUI MAIN RACE

Struct.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Dist.	Access	Photo no.	Drawing no.
		Acc-X	T/O box	Pipeline							
1	110	-	/	-	Fair Okay	Length - 880 m 500 mm M/B Concrete and wood stop 350 mm D x 620 mm W	LHS				38
2	550		/		Poor	Steel gate on 450 mm dia. concrete pipe x 2.5 m W	Services sod T/O				
3	700		/		Okay Okay	Concrete and wood T/O 220 mm D x 760 mm D Concrete and wood stop 280 mm D x 610 mm D					

Struct. no.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Dist. ass.	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
						Length - 520 m No structures					38



REASSESSMENT OF SCHEME: OMAKAU

RACE: DISTRIB. H  
FROM NO. 71 MAYAKANUI MAIN

DATE: 14.2.85

sheet 127 of 133

Strct.	Dist. (m)	I T E M			Cond.	Remarks	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline				
						No Structures Length - 580 m		38



SITC no.	Dist. (m)	I			E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/O	Box	Pipeline	Misc.							
1	1400		T/O				Bad	T/O RHS. 225 mm dia. steel pipe with valve	T/O to mining claim Hogan				37
2	1720	/	-			-	Poor	Concrete pipe culvert 300 mm dia. x 3.6 m	Pipes not jointed but laid end to end  Length - 1940 m Race enters Devonshire Creek				38

REASSESSMENT OF SCHEME: OMAKAU

RACE: DEVONSHIRE

DATE: 14.2.85

sheet 129 of 133

Struct.	Dist. (m)	I T E M			Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline						
1	50			/	Good Poor	Rock Dam Steel pipe culvert 560 mm dia. x 6 m L	Through dam Half silted up	400	38	
2	60		/		Fair	500 mm M/B				
3	430	/			Poor	Earthenware pipe culvert 300 mm dia. x 3.1 m L	Upstream length (1 m) broken off Scouring badly around upstream end of culvert			
4	740			/	Okay	Concrete pipe culvert x 7.4 m L	Under Devonshire Rd.			
5	1070	/			Okay	Steel pipe culvert 380 mm dia. x 4.7 m L				
6	1670	/			Okay	Concrete pipe culvert 375 mm dia. x 5.0 m L				
7	1790			/	Bad	500 mm M/B	Lying crookedly in race. Was used for flow measurement Length - 1790 m	401		



Struct. No.	Dist. (m)	I		E		M	Cond.	Detail	Remarks	Access	Photo no.	Drawing no.
		Acc-X	T/O	Box	Pipeline							
17	5120	/	-	-	-	-	Fair	Wood Bridge 600 mm W				38
18	5200	/	-	-	-	-	Fair	Wood Bridge 600 mm W				
19	5210	/	/	/	/	/	Fair	Concrete pipe T/O 525 mm dia. x 1.0 m L	Sheet of metal used to stop T/O			
20	5230	/	/	/	/	/	Fair	Concrete pipe culvert 525 mm dia. x 700 mm L				
21	5260	-	-	/	/	-	Fair	Steel pipe flume 560 mm dia. x 12.0 m L	Takes race across Scotts Creek Splitting at seams Major	413		
22	5480	/	/	/	/	/	Poor	Steel pipe flume 280 mm dia.				
23	5500	/	/	/	/	/	Good	Concrete pipe culvert 450 mm dia. x 4.7 m L				
24	5630	/	/	/	/	/	Good	Stone headwalls				
25	5700	/	/	/	/	/	Good	Concrete pipe culvert 550 mm dia. x 4.9 m L				
26	5910	/	/	/	/	/	Good	Stone headwall				
27	6530	/	/	/	/	/	Good	Concrete pipe culvert 450 mm dia. x 4.9 m L				
28	6670	/	/	/	/	/	Good	Stone headwall				
29	6990	/	/	/	/	/	Good	Wooden Bridge 900 mm W				
30	7020	/	/	/	/	/	Fair	500 mm M/B				
							Good	Concrete and wood stop 460 mm D x 1.2 m W				
							Okay	Concrete pipe culvert 450 mm dia. x 4.9 m L				
							Poor	Concrete pipe culvert 375 mm dia. x 1.3 m L	Used as a stop to service sod T/O (Distrib. 1)			
							Okay	Concrete pipe culvert 450 mm dia. x 4.9 m L				

Structure	Dist. (m)	T			Cond.	Detail	Remarks	Inst. Ass.	Access	Photo no.	Drawing no.
		Acc-X	T/box	Pipeline							
31	7200	-	/	-		750 mm M/B	In race as control				38
32	7220	/	-	/		Steel pipe culvert 460 mm dia. x 2.5 m L					
33	7230	-	-	/	Okay	Concrete pipe culvert 375 mm dia. x 12.2 m L	Under Devonshire Road				

REASSESSMENT OF SCHEME: OMAKAU

RACE: DISTRIB. NO. 1 OF  
STRUCTURE 29 COUNTY RACE

DATE: 15.2.85

sheet 133 of 133

Struct. No.	Dist (m)	I T E M			Cond.	Detail	Remarks	Dist	Access	Photo no.	Drawing no.
		Acc-X	T/Obox	Pipeline							
1	270				Fair	Steel gate on 375 mm dia. concrete pipe x 1.2 m L	Services sod T/O RHS & LHS				45
2	570	/			V.Bad	Steel pipe culvert 360 mm dia. x 2.7 m L	Rusted with holes				
3	575				Fair	Steel gate on 375 mm dia. concrete pipe x 1.3 m L					
4	630	/			Okay	Concrete pipe culvert 375 mm dia. x 2.5 m L					
5	740					500 mm M/B	Services sod T/O				
6	750			/	Okay	Concrete pipe culvert 375 mm dia. x 6.8 m L	Under Moutere Disputed Spur Road Length - 760 m				



APPENDIX C

OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
Void	1	-	-	-	-	-	-	-
Stafford TE & DJ	2	X14312	41	VI	Lauder	)	)	C/L 163/164
			26	VI	"	)	)	C/L 157/124
			27	VI	"	)	)	C/L 157/122
		Pt.X14390.	PART			)	)	
			77	VII	Lauder	)	)	C/L
			79	VII	"	)	)	206/14
			1322R	VI	"	)	)	
		Pt.X14313	PART :			)	)	
			9	II	Lauder	)	)	C/L
			20	VI	"	)	)	163/110
			16	VI	"	)	)	C/L 157/112
			28	VI	"	)	)	C/L 157/113
						)	)	C/L 157/152
		Pt.X14256	PART:			)	)	
			75	VII	Lauder	)	)	C/L
			102	VII	"	)	)	163/108
			10	II	"	)	)	C/L
			25	VI	"	)	)	163/6
						)	)	C/L 157/153
			NB: See L/N No.29 FOR BALANCES					
Airey RD & PM	3	X14254	7	IV	Lauder	)	)	C/L 105/39
			35	V	"	)	)	C/L 174/63
			36	V	"	)	)	C/L 174/64
			34	V	"	)	)	C/L 174/77
		X14251	Bal.8	IV	Lauder	)	)	160 acres Bal. C/L 127/61
Williamson MB	4	Pt.X14882	11	IV	Lauder	)	)	134 acres C/T 141/136
		X14373	55	III	Lauder	)	)	16 acres C/T 312/197
Void	5	-	-	-	-	-	-	-
McKnight, CG & GR & White, RC	6	-	-	-	-	-	-	-
Hore RR (Est.)	7	228244 (An.Chge)	-	-	-	-	-	-
Armstrong Bros.	8	X14971	8	V	Blackstone	)	)	C/L 127/83
			9	V	"	)	)	C/L 127/84
			6	V	Lauder	)	)	C/L 102/94
		X19290	54	II	Blackstone	)	)	230 acres C/L 127/23
			51	II	"	)	)	C/L 136/225
		Pt.14993	49	II	Blackstone	)	)	101 acres C/T 136/225
Avonpath Partnership c/- GT Clouston	9	X14972	21	V	Lauder	)	)	C/T 101/151
			5	V	"	)	)	C/T 125/229
			13	V	"	)	)	C/T 220/84

OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. NO.	Sec	Blk	SD	area		C / T	
						total	irrig.		
Brown JM & CM	10	X14255	Run 223		O	Lauder	-	140 acres	C/L 251/39
Barker WR & L	11	X14269	Pt.1A	I	Tiger Hill	)	-	6 acres	C/T 437/167
			Surface Soil of			)			
			Pt.66	I	Tiger Hill	)			
			Being Lot 2		DP 6163	)			
Becks Community Centre	12	Pipe	-				-	-	-
Void	13	-	-				-	-	-
Void	14	-	-				-	-	-
Berry EJ	15	X14270	65	VII	Lauder	)	-		C/L 163/32
			73	VII	"	)		(140 acres	C/L
			97	VII	"	)		(	163/86
							277 acres	(	
		Pt.X14278	62	VII	Lauder	)		(117	C/L 163/101
			66	VII	"	)		(	C/L 163/104
			68	VII	"	)		(	
Brown IR	16	An.Chge.	-				-	-	-
Void	17	-	-				-	-	-
Nolan EJ & JG	18	X14268	16	I	Tiger Hill	)		33 acres	C/T 274/168
			Pt.17	I	"	)			
Clouston IL	19	X14253	5	II	Lauder	)			C/L 120/82
			13	"	"	)		160	C/L 163/4
			14	"	"	)			C/L 163/106
Clouston IA	20	X15283	38	III	Lauder	)			C/T 88/20
			40	III	"	)		50	C/T 69/126
Clouston SD	21	X14420	8	II	Lauder	)			C/L 163/105
			67	VII	"	)		140	C/L 163/101
		Pt.X14278	62	VII	Lauder	)		23	
Clouston WJ	22	X15072 (An.Chge)	13	V	Blackstone	)			C/T 151/61
			4	V	"	)		100	C/L 123/81
			5	V	"	)			
Corrigan AJ	23	X14384	Pt.18	I	Tiger Hill	)			C/T 346/62
			55	"	"	)			C/T 170/149
			30	"	"	)		98 acres	
			31	"	"	)			
			36	"	"	)			
			Pt.37	"	"	)			C/T 168/194
			Pt.38	"	"	)			
			Pt.52	"	"	)			
			Pt.53	"	"	)			
Corrigan JE & Son	24	X14883	35	I	Tiger Hill	)		100 acres	C/T 141/57
			Pt.33	"	"	)			
			Pt.34	"	"	)			
McNamara MW	25	X14273	28A	II	Tiger Hill	)			C/T 178/287
			30	"	"	)		200 acres	C/T 180/186
			31	"	"	)			
			Pt.33	"	"	)			
Void	26	-	-				-	-	-
Void	27	-	-				-	-	-

OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. NO.	Sec	Blk	SD	area		C / T	
						total	irrig.		
Devonshire Mining Co.	28	Surplus	-			-	-	-	
Donnelly EF	29	Pt.X14390 Pt.X14313 Pt.X14256	See L/N No. 2 (TE & DJ Stafford)			)	135 acres	)	
Heckler MJ	30	X14272	Sec. 3A Matakānui Settlement			)	375 acres	)	C/L 307/109
Void	31	-	-			-	-	-	
Void	32	-	-			-	-	-	
Hodge RG & JA	33	X15074 (Pipe)	Lot 2 DP 4937 Being Pt.14 V Blackstone and 19 V "			) ) ) ) )	6 acres	) ) ) )	C/T 286/27 C/T 301/ 232
Duncan DL	34	X14422	Sec. 1A Matakānui Settlement, Being also 1A III Lauder  17 VI "			) ) ) ) )	170 acres	) ) ) )	C/L 163/40 C/L 157/114
Void	35	-	-			-	-	-	
Stafford DE	36	Pt.X14857	PART: Various Sections in Town of Manuherikia, Tiger Hill, and Lauder S.D.'s, totalling 215 acres Shared between L/N's 36, 46, 75, 86, 89, 94			) ) ) ) )	32 acres	) ) ) )	
Glaasford AG & Son	37	X15035	6	VI	Lauder	)	100 acres	)	C/L
			42	VI	"	)		)	290/176
Glassford OO & SR	38	X15776	7	VI	Lauder	)	60 acres	)	C/L
			8	"	"	)		)	251/74
			33	"	"	)		)	C/L
			36	"	"	)		)	Bl/1479
			37	"	"	)		)	C/L
			10	X	"	)		)	7C/1169
			34	VI	Lauder	)		)	C/L
		X14391	44	"	"	)		)	193/51
Tucker GF	39	258855	Run 226C Cluden and Lauder S.D.'s			)	80 acres	)	C/L 388/117
Lauder Lodge Farm Ltd. c/- DW Hamilton	40	X15036	Lot 2 DP 5428 and being Pt. Secs. 9 & 10 Blk. V Lauder			) ) ) ) ) ) ) ) ) ) ) )	30 acres	) ) ) ) ) ) ) )	C/T 312/161
		X15037	Lot 1 DP 5428 and being 32 V Lauder Pt. 9 & 10 Lauder			) ) ) ) ) ) ) ) ) ) ) ) ) ) )	75 acres	) ) ) ) ) ) ) ) ) ) ) )	C/T 302/95
		X20550	63	II	Blackstone	)	18 acres	)	C/L 382/25
Hamilton GS	41	X20547	Run 226G Lauder			)	25 acres	)	C/L 377/124



OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T	
						total	irrig.		
Huddlestone WC & Sons	49	X14401	3	VI	Lauder	)	)	C/L	
			22	VI	"	)	)	157/123	
			23	VI	"	)	)		
			40	VI	"	(	)	C/L	
									163/111
			90	VII	"	)	)	140 acres	
			95	VII	"	)	)		C/L
			99	VII	"	)	)		251/81
			1614R	VII	"	)	)		
			76	VII	"	)	)		C/L
84	VII	"	)	)		228/91			
		X14352	92	VII	"	)	15 acres	C/L	
						)		251/63	
"	50	X15646	21	VI	Lauder	)	140 acres	C/L	
						)		307/172	
Kane A & Son	51	X14978 (Pipe)	Country Secs :			)	)		C/T
			14	II	Blackstone	)	)		60/288
			15	II	"	)	)		
			16	II	"	)	)		
			17	II	Blackstone	)	)		
			18	II	"	)	)		C/T
			19	II	"	)	)		98/163
			Pt.20	II	"	)	)		
			27	II	Blackstone	)	)	210 acres	C/T
			28	II	"	)	)		74/41
			29	II	"	)	)		
			36	II	Blackstone	)	)		C/T
			37	II	"	)	)		51/39
			38	II	"	)	)		
			30	II	Blackstone	)	)		C/T
31	II	"	)	)		(Bal.)			
33	II	"	)	)					
34	II	"	)	)		125/54			
Pt.32	II	"	)	)					
Kane Kevin Ltd.	52	239997	Country Secs:			)	)		C/T
			39	II	Blackstone	)	)		58/27
			40	II	"	)	)	60 acres	
			48	II	"	)	)		C/T
							93/84		
Huddlestone PT	53	Pt.X14276	1	IX	Lauder	)	580 acres	C/L	
			15	II	"	)	)		251/176
Kinney PJ	54	X14399	2A	I	Tiger Hill	)		C/T	
			Runs 223F & 223G			)	)	275 acres	C/L
			60	I	Tiger Hill	)	)		307/153
Rutter L & A	55	Pt.X14419	PART:			)	)		C/T
			39	V	Lauder	)	)	160 acres	177/7
			2	IV	"	)	)		C/T
			4	IV	"	)	)		321/109
			Pt.3	IV	"	)	)		
			1A	V	"	)	)		C/T
			1	V	"	)	)		77/18
			6	V	"	)	)		C/T's
7	V	"	)	)		43/137			
							94/156		
							86/92		
Leask RJ	56	Pt.X14419	PART: - Description as above L/N 55			)	170 acres		
Leith EF	57	X14976	12	V	Lauder	)	150 acres	C/T	
								220/85	
Void	58	-	-	-	-	-	-	-	

OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T		
						total	irrig.			
Harrex TE & PM Green LA & Keddell PJ	59	X14991	10	II	Blackstone	)	)	C/T's 7D/662  7D/659 7D/661 7D/660		
			12	II	"	)	)			
			13	II	"	)	) 557 acres		) 185 acres	
			11	II	"	)	)		)	
			59	II	"	)	)		)	
			26	II	"	)	)		)	
Hakker LD & J	60	X14418	5	X	Tiger Hill	1727	325 acres	C/T 314/161		
McKnight CG	61	X14296	10	V	Blackstone	)	) 21 acres	C/T's 77/155		
			12	V	"	)	)	229/81		
			20	V	"	)	)	234/144		
McKnight SG	62	228245 (An.Chge.)	Run 224Z		Blackstone	1331	(An.Chge.)	C/L 362/186		
MacLean DE	63	X14400	61	I	Tiger Hill		100 acres	C/L 290		
			X16271	32	I	"		33 acres	C/L 111/46	
			X14274	29	I	"	)	)	C/T's 74/246	
			44	"	"	)	)	130 acres	74/247	
			45	"	"	)	)			
			46	"	"	)	)		80/255	
			47	"	"	)	)		273/133	
			Pt.28	"	"	)	)			
			X15915	37	III	Lauder		20 acres	69/127	
		Mee MH	64	X14979	7	IV	Blackstone	)	)	C/L's 206/158
					5	IV	"	)	) 125 acres	99/30
4	IV				"	)	)	99/31		
	X15038			22	II	Blackstone	)	)	C/T's 83/189	
				23	II	"	)	)		
				25	II	"	)	)		
				4	II	"	)	)	101/170	
				3	II	"	)	) 125 acres	89/8	
				1	II	"	)	)	81/155	
				5	II	"	)	)		
				6	II	"	)	)		
		21	II	"	)	)	82/159			
		24	II	"	)	)				
Mee J (Est.)	65	231260 (An.Chge.)	Runn 244 D		Blackstone	2159.2.0	(An.Chge.)	C/L 369/116		
Milne RL & MA	66	Pt.14391	19	VI	Lauder	-	) 50 acres	C/L's 157/74		
			18	VI	"	)	)	157/107		
Milne RL	67	X14316	5	VI	Lauder		165 acres	C/L 290/195		
Moran JT	68	X14281 Pt.X14882	6	IV	Lauder		200 acres	C/T's 160/300		
			48	III	"		41 acres	141/136		
Morgan JEF	69	X14351	78	VII	Lauder	)	)	C/L 206/16		
			42	III	"	)	)			
			1323R	VI	"	)	) 360 acres			
						)	)			
			29	VI	"	)	)	C/L's 157/100		
			30	VI	"	)	)	157/121		
	9	VI	"	)	)	120/76				
Naylor EB & DB	70	Pt.X14993	1	XII	Lauder	)	249 acres	C/T 187/123		
			60	II	Blackstone	)	)			
Naylor G (Est.)	71	X14314	63	VII	Lauder		100 acres			
Void	72	-	-	-	-	-	-	-		
Void	73	-	-	-	-	-	-	-		

OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C / T
						total	irrig.	
Central Otago Implement exchange	74	-	-	-	-	-	-	-
Omakau Domain Board	75	Pt.X14857	PART: Various sections in Town of Manuherikia, Tiger Hill and Lauder S.D.'s Totalling 215 acres. Shared between L/N's : 36, 46, 75, 86, 89, 94			-	2 acres	-
Void	76	-	-	-	-	-	-	-
Paterson BJ	77	X14798	Pt.49	III	Lauder	)	)	C/T
			46	III	"	)	)	286/205
			50	III	"	)	) 380 acres	C/L
						)	)	120/85
			52	III	"	)	)	C/L
						)	)	105/49
			51	III	"	)	)	C/L's
			57	III	"	)	)	123/13
			47	III	"	)	)	138/195
						)	)	105/75
Matakanui Stn. Ltd	78	X15728 (An.Chge)	Run 223J Land Dist. of Otago - now : -			)	)	C/L
			6	I	Lauder	)	)	251/2
			7	I	"	)	)	
			3	XIV	Wakefield	)	) 300 acres	C/L
			10	III	Tiger Hill	)	)	369/4
			10	X	"	)	)	
Void	79	-	-	-	-	-	-	-
Heckler MJ	80	X15588	Run 223M Lauder			-	230 acres	C/L
								362/158
Tucker GF	81	X14395	58	III	Lauder	)	)	C/T's
			53	III	"	)	)	141/232
			59	III	"	)	)	170/238
						)	)	
			Lot 3 & 5 DP 4724 &			)	)	C/T
			Pt.12	IV	Lauder	)	) 525 acres	281/28
			Pt.18	IV	"	)	)	
			Pt.24	IV	"	)	)	
			Pt.25	IV	"	)	)	
						)	)	
			54	III	Lauder	)	)	C/T
						)	)	117/267
			32	II	Tiger Hill	)	)	C/T
						)	)	88/117
			30	IV	Lauder	)	)	C/T
						)	)	238/76
Void	82	-	-	-	-	-	-	-
Shaw LG	83	X15849	31	IV	Blackstone	)	)	C/L
						)	)	145/200
			36	IV	"	)	) 100 acres	C/L
						)	)	150/3
			32	IV	"	)	)	C/L
						)	)	150/10
Void	84	-	-	-	-	-	-	-
Void	85	-	-	-	-	-	-	-
Stafford BG & MM	86	X14393	108	II	Tiger Hill	)	)	C/T's
			59	II	"	)	)	302/5
			Pt.8	I	"	)	)	317/40
			Bal.			)	)	212/238
			Pt.7	I	"	)	) 340 acres	Bal.
			9	I	"	)	)	286/30
			23	II	"	)	)	210/92
			22	II	"	)	)	117/64
			Pt.6	I	"	)	)	77/173
						)	)	178/55



OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. NO.	Sec	Blk	SD	area		C/T
						total	irrig.	
Stafford BG & MM		Pt.X14857	PART: Various Sections in Town of Manuherikia Tiger Hill, and Lauder S.D.'s Totalling 215 acres. Shared between L/N's : 36, 46, 75, 86, 89, 94				90 acres	
Void	87	-	-	-	-	-	-	-
Void	88	-	-	-	-	-	-	-
Gray PJ & JA	89	Pt.14857	PART: Various sections in Town of Manuherikia, Tiger Hill and Lauder S.D.'s Totalling 215 acres Shared between L/N's : 36, 46, 75, 86, 89, 94 NAMELY :					
			1	VI	Manuherikia	)		C/T's
			2	VI	"	)		48/168
			3	VI	"	)		
			4	VI	"	)		136/168
			15	VI	"	)		
			4	VII	Manuherikia	)	5 acres	139/4
			5	VII	"	)		394/155
			6	VII	"	)		
			7	VII	"	)		
			8	VII	"	)		
			9	VII	"	)		
Thurlow Bros.	90	(An.Chge.)	-	-	-	-	-	-
Void	91	-	-	-	-	-	-	-
Omakau Racecourse Partnership	92	X15314	63	III	Lauder	)		C/T
			65	III	"	)		356/139
			62	III	"	)	120 acres	C/T
								327/82
Waldron PL & VG	93	228240 (An.Chge.)	Run 224	Blackstone	)			
			Run 685	St.Bathans	)			
			Run 703	St.Bathans	)			
			Run 684	Hawkdun	)			C/L
			2	VIII	Blackstone	)		338/137
			3	VIII	"	)	22254	
			4	VIII	"	)	acres	
			13	VIII	"	)		
			14	VIII	"	)		
			4	XI	"	)		
			1428R	XI	"	)		
			69	II	St.Bathans	)		
			70	II	St.Bathans	)		
Wilson WC	94	Pt.X15005 Pt.X14857	24 Matakanui Settlement PART: Various sections in Town of Manuherikia Tiger Hill and Lauder S.D.'s Totalling 215 acres Shared between L/N's : 36, 46, 75, 86, 89, 94				117 acres	C/L 362/4
White Bros.	95	X14350	Pt.39	I	Tiger Hill	)		C/T
			48	I	"	)		349/233
			50	I	"	)		C/T
						)		84/87
			51	I	"	)		C/T
						)		98/251
			49	I	"	)	375 acres	C/L
			40	I	"	)		157/24
			41	I	"	)		
			42	I	"	)		C/L
			43	I	"	)		102/86
			3	II	Lauder	)		C/L
			2	X	Tiger Hill	)		99/3

OMAKAU IRRIGATION SCHEME. LEGAL DESCRIPTIONS

Irrigator	L/N	Ag'mnt. No.	Sec	Blk	SD	area		C/T
						total	irrig.	
White DJ	96	Pipe	-			-	-	-
White C	97	X14277	13	III	Lauder	)	420 acres	C/T 353/65
			18	III	"	)		
			23	III	"	)		
			24	III	"	)		
			33	III	"	)		
			34	III	"	)		
			Said Sec. 24 being shown as Lots 1 & 2 DP 4335			)		
Huddleston RW	98	X14311	31	IV	Lauder	)	140 acres	C/T 238/75 C/T 224/192 C/T 143/267
			Pt.13	IV	"	)		
			17	IV	"	)		
		237161	29	II	Tiger Hill	)	576 acres	411 acres C/T 390/234
			15	IV	Lauder	)		
			16	IV	Lauder	)		
Morgan RJ	99	Pt.14280	PART OF: Pt.1 II Lauder			)	210 acres	C/T 332/231
		Pt.14374	PART OF : 28 III Lauder			)		
Wilson SR	100	Pt.X15377	7	III	Lauder	)	200 acres	C/T 132/60
		Pt.X15005	8	III	Lauder	)	260 acres	C/T 71/179 C/T's 99/70
Wilson BW	101	Pt.X15377	9	III	Lauder	)	150 acres	99/70
		X14271	(Now 68)			)	75 acres	1C/113 6B/989
		Pt.X14313	15	III	"	)		
		"	28	III	"	)	70 acres	6B/990
		"	16	VI	"	)		
		X14389	14	VI	"	)		
		"	15	VI	"	)	80 acres	6B/988 6B/962
		Pt.X15005	4A	III	"	)		
McLaren IS	102	Winter Water	-			-	-	-
Duncan DL Trust	103	Pt.X14391	9	X	Lauder	)	70 acres	C/L 163/117
			35	VI	"	)		
			38	VI	"	)		
Nolan EJ Trust	104	Pt.X14280	PART OF :			)	80 acres	C/T 332/231 C/T 88/21
			1	II	Lauder	)		
		Pt.14374	PART OF :			)		
			28	III	Lauder	)		
Void	105	-	-			-	-	-

WATER RIGHTS

Scheme	River	Authority (Water race licence No.)	Index No
Omakau	Manuherikia River	WR 4363	184
Omakau	Manuherikia River	WR 5785	182
Omakau	Becks Creek	PW Act	-
Omakau	Thompsons Creek	WR 1464	118
		WR 303B	162
		WR 289	163
		WR 295	164
Omakau	Dunstan Creek	WR 5784	181
Omakau	Lauder Creek	WR 513	-
Omakau	Muddy Creek	WR 219	91
Omakau	Blackbush Creek	PW Act	-
Omakau	Middle Creek	WR 518	-
Omakau	Coal Creek	WR 516	
Omakau	Scotts Creek	WR 515	177
Omakau	Devonshire Creek	WR 301	155
Omakau	Thompsons Creek	WR 306	167
		WR 1240	-
Omakau	Becks	PW Act	-

OKAYAU SCHEME

Description	Locality	Qty Cusecs	Map. No.	Co-ordinates		Remarks
				N.	E.	
<u>OKAYAU SCHEME</u>						
Dams	Falls Dam on Manuherikia River		S 125	391550	361450	110' high 8972 ac/f
Intakes	Manuherikia River ✓	12	S 125	382760	356350	4363 "
	" " ✓	80	S 134	379650	353180	5785 "
	Becks Creek	2	S 134	376500	348450	
	Thompson's Creek	3	S 134	372420	336720	
	" "	15	S 134	378060	332720 ✓	
	" "	1	S 134	375520	335800 ✓	
✓	Dunstan Crk	18	S 125	386920	349630	
	Lauder Creek	15	S 125	360240	338930	
✓	Muddy Creek	1	S 134	376210	337700	
✓	Blackbush Creek	2	S 134	372100	332470	
	Middle Creek	3	S 134	371180	327650	
	Coal Creek	1	S 134	370870	328610	
	Scotts Creek	2	S 134	372350	328350	
	Devonshire Creek	1	S 134	372660	328910	
	Thompson's Creek	10	S 134	369600	336280	WR 304 "
	Blackbush Creek	2	S 134	373580	331460	
	Becks Creek	4	S 134	377780	348310	
Bywashes	No. 1 to Manuherikia Rv	200	S 125	391550	361450	at Dam
	No. 2 to Manuherikia Rv	30	S 134	377460	350840	
	No. 3 to Becks Creek	5	S 134	376500	348450	
	No. 4 to Lauder Creek	20	S 134	371700	344380	
	No. 5 to Drybread Tail-ings	40	S 134	373880	338760	
	No. 6 to Thompson's Ck	30	S 134	373410	336640	
	No. 7 to Sludge Channel	5	S 134	372950	333580	
	No. 8 to Manuherikia Rv	15	S 134	362350	334900	
	No. 9 to Becks Creek	5	S 125	382230	346680	
	No. 10 to Miller Creek	2	S 125	380900	344140	
	No. 11 to Woolshed Crk	5	S 125	383530	348200	
	No. 12 to Muddy Crk	5	S 134	376000	337670	
	No. 13 to Blackbush Creek	2	S 134	373580	331460	
	No. 14 to Coal Creek	2	S 134	370870	328610	
Bywashes	No. 15 to Devonshire Ck	2	S 134	372660	328910	
	No. 16 to Thompson's Ck	4	S 134	368480	335980	
	No. 17 to " "	2	S 134	364900	335670	
	No. 18 to " "	2	S 134	363620	335600	

INTAKES & DAMS HELD BY CROWN  
CENTRAL OTAGO IRRIGATION SCHEMES AS AT 9. 9.66

Scheme	Creek	Q Cusecs	Authority	Usage	
				Summer	Wint
OMAKAU	Manuherikia Rvr.	12	WR.4363	12	
	"	80	WR.5785	80	
	Becks Crk	2	P.W. Act	2	
	Thompson's Crk	3	"	3	
	"	15	WR.1464, 3033, 289 295	15	
	"	1	P.W. Act	1	
	Dunstan Crk	18	WR.5784	18	
	Lauder Creek	15	WR.513	15	
	Muddy Creek	1	WR.219	1	
	Blackbush	2	P.W. Act	2	
	Middle Creek	3	WR.518	3	
	Coal Creek	1	WR.516	1	
	Scatts Crk	2	WR.515	2	
	Devonshire	1	WR.301	1	
	Thompson's	10	WR.306, 1240X	10	
Becks Creek	4	P.W. Act	4		
Blackbush	2	"	2		

625  
B. 7 1/2  
2261  
(187)

No. 4363

DATED 21. 8 1912

UNDER THE MINING ACT, 1908.

WARDEN

TO  
*Albert Edward Threlton*  
*William Armitage*  
*Albion Buffell James*

License for a Water-race.

JAMES MEE

MORTGAGE }  
TO }  
STATE ADVANCES }  
SUPERINTENDENT }

Registered in the name of the  
Mining Registrar MASEBY  
at 10 a.m. on 17/10/30 xx  
No. 4907  
*W. A. Black*

THOMAS NEVILL

DISCHARGE OF }  
MORTGAGE NO. }  
4628 }

JAMES MEE

Registered at the office of the  
Mining Registrar MASEBY  
at 9/30 a.m. on 1:12:30 1912  
No. 4912  
*W. A. Black*  
Mining Registrar.

3/8/22 at 3 PM

(Form 31 (Reg 33))

out 2/8/22 at 11 AM under the Mining Act, 1908.

LICENSE FOR A WATER-RACE.

IN PURSUANT to the Mining Act, 1908, I, the undersigned,

Henry James Dixon, a Warden of the Otago Mining District, do hereby grant to

Albert Edward Shurlow, William Armitage and Elston Griffith Davies all of Otago Farmers

this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of twenty-one years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at Otago this 21st day of August, 1922.

FIRST SCHEDULE.

Commencing in the Manukau River about 3 miles above the Blackstone Hill Homestead at the intake of Water Race No 1364 held by His Majesty the King and leased to Reuben Ponsa Gore and running in the said race through the whole of its course, thence through the Small Grazing Run of William Armitage, thence through the Small Grazing Run of S. H. Knight, thence through the Small Grazing Run of Elston G. Davies and terminating at the Small Grazing Run of Albert E. Shurlow about 60 chains above the mouth of the Poolburn River.

Length & intended course of Race 10 miles North & South
Points of intake One
Estimated time & cost of construction One year £500
Time & place of completion 3rd Oct 1922 at Blackstone Hill

## SECOND SCHEDULE.

Addi-  
tional, &c.,

(1) Conditions required by the Crown:

1. That the property be made subservient to the 75 heads of water required for the Manchester scheme.
2. That the Licensees enter into an agreement to sell the right to the Crown on demand at fair valuation for the actual construction of their proposed Main Race, in so far as it would be useful for inclusion in the Government scheme, no claim being made for the value of water.
3. That the Licensees construct two sheep bridges and two bridges capable of carrying a drag across the proposed race in the property of Edgar G. Williamson at spots to be approved by E. G. Williamson.

W. H. H. H. H.

Warden.

[a 1115./7/15-10740



*Edward Thurlow, William Armitage, James Mee and Cleaton Griffith Davies to the Mining Registrar by deed dated 25th. October 1923.*

Office of the Mining Registrar Naseby this 20th. day of November 1923 at 4. p. m. ASSIGNMENT of One-fourth interest from Albert Edward Thurlow, William Armitage and Cleaton Griffith Davies TO Samuel McKnight by deed dated 25th. October 1923.

*W. J. Davies*  
Mining Registrar.

Office of the Mining Registrar Naseby this 26th. March 1926 at 8. p. m. ASSIGNMENT of all his one-fourth share from Cleaton Griffith Davies to James Mee by deed dated 3rd. March 1926. (Subject to option of purchase 0.4382)

*W. J. Davies*  
Mining Registrar

Office of the Mining Registrar Naseby this 17th. April 1926 at 10 a.m. MORTGAGE of his one-fourth share from James Mee to Thomas Nevill by deed dated 18th. March 1926.

*W. J. Davies*  
Mining Registrar

Office of the Mining Registrar Naseby this 14th. May 1926 at 11 a.m. MORTGAGE of his one-fourth share from Albert Edward Thurlow TO The State Advances Superintendent by deed dated 6th. May 1926

*W. J. Davies*  
Mining Registrar

4031 by writing dated 2nd day of September 1941 at 9.30am. with permission of Gorden M. P. No. 5/41 R.  
Mining Registrar

4907 by writing dated 11th day of October 1941 at 9.30am. with permission of Gorden M. P. No. 5/41 R.  
Mining Registrar

Albert Edward Thurlow, William Armitage, James Mee and Samuel McKnight  
Office of the Mining Registrar Naseby this 11th day of October 1941 at 3.55pm with permission of Gorden M. P. No. 5/41 R.  
Mining Registrar

(182)

MASEBY

No. 5785

DATED 3rd October, 1938

UNDER THE MINING ACT, 1936.

X/11 294

WARDEN

TO

HIS MAJESTY THE KING

License for a Water-race.

Under the Mining Act, 1926.

LICENSE FOR A WATER-RACE.

PURSUANT to the Mining Act, 1926, I, the undersigned,  
HENRY JAMES WARDEN  
~~ALICE'S FARM, PALMERSTON~~, a Warden of the  
Otago Mining District, do hereby grant to

(1) HIS MAJESTY THE KING

this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of 21 years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act, and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at Naseby, this third

day of October, 1938

FIRST SCHEDULE.

(2) Commencing at a point on the South Bank of the Manuherikia River on Run 224A Blackstone District and running generally in a south westerly direction through the said Run and terminating in the existing Race of the licensee at the intersection with Palmerston-Clyde Main Highway, together with strips of land ten feet wide on both sides of the said race along the entire length of the course. Length and intended course of race: 45 chains -- South West. One point of intake in the Manuherikia River. Already constructed. Mean depth and breadth: 3'6" by 10'. 70 heads to be diverted for Irrigation and Domestic purposes. Pegs marked M.

*H. J. Warden*  
Warden

CONSENTED TO.

Dated at Wellington  
this 19th day of September 1938.

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Blacks

V: 30

No. 1464

DATED 14-8-1934

UNDER THE MINING ACT, 1926.

WARDEN

TO

CHARLES EDWARD RICHARDS, PATRICK DANIEL MORAN, PATRICK DANIEL MORAN & JOHN MORAN & HERBERT GEORGE WILSON.

License for a Water-race.

Registered at the Office of the Mining Registrar, Blacks at 11 a.m. on 20 August 1934. as No. 1464. K.C.H.

ASSIGNMENT of all interest in the within license from Charles Edward Richards, Patrick Daniel Moran and Patrick Daniel Moran, John Moran and Herbert George Wilson to His Majesty The King deposited and registered in the office of the Mining Registrar at Blacks this 29th day of August 1934 at 10 a.m. as No. 1465.

*Stool*  
Mining Registrar

(118)

Appln. No. 31/34 Filed: 12/7/34 at 10 A.M.  
Marked out: 12 noon 10/7/34.  
T.E. Sunderland:

License No. 1464

(Form 91 (Reg. 53))

Under the Mining Act, 1926.

LICENSE FOR A WATER-RACE.

PURSUANT to the Mining Act, 1926, I, the undersigned, \_\_\_\_\_  
HENRY JAMES DIXON, a Warden of the  
OTAGO Mining District, do hereby grant to

(1) Full name, residence, and occupation.

(1) CHARLES EDWARD RICHARDS of Alexandra Accountant, PATRICK DANIEL MORAN of Omakau Farmer, PATRICK DANIEL MORAN and JOHN MORAN of Omakau Farmers and HERBERT GEORGE WILSON of Omakau Farmer.  
this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of twentyone years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act, and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.



In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at Blacks, this 10th day of August, 1934

FIRST SCHEDULE.

(2) Set out locality of race and nature of the proposed work as set forth in application, modified however, so as to accord with the grant, adding such other particulars as are necessary, including plan of lead, if surveyed, number of heads authorized to be diverted, and purpose for which water is to be used.

(2) Locality of race and of its starting and terminal points:

Commencing at a point in Thompsons Creek at the intake of the Race known as Mount Morgans Race and running through Run. 223° and Mining Reserve and terminating at a point 750 yards North of Matakauui Hotel - direction North to South.  
Length and intended course of race: 3200 yards

Points of intake: One

Estimated time and cost of construction: already constructed

Mean depth and breadth: 3 feet by 16 inches

Number of heads to be diverted: 9 heads

Purpose for which water is to be used: Irrigation.

*Francis*  
Warden



(\*) but not addi-  
tional tortus, &c., if  
any

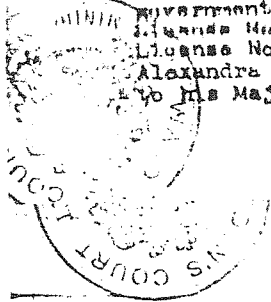
Warden's Order

Endorsed on Original License  
Surrender accepted for Water Race, 1864 dated  
13 December 1864 which certificate states  
heads from Thompsons Creek whereas it does  
not take its head from the main Creek but a  
tributary running into the same being the 3rd  
tributary above the junction of the right and left  
hand branches of Thompsons Creek on the west  
or left hand side going up and about 3 1/2 miles  
below head of Race and Shine Race, and null 4  
dated 4th August 1865 from main Thompsons  
Creek; the rights to be considered as bearing  
date 4th August 1865, to be issued in one grant  
to head from where at present, for four heads  
of water, applicants foregoing 1/4 head granted  
by Warden Robinson in August 1864 <sup>Warden.</sup> in  
consideration of the water being gauged  
at present head thus making this right  
the third right out of Thompsons Creek



*M. J. ...*  
Warden.

1. That the Crown shall be empowered at any time to acquire the whole or any part of the Licenses, in which case the former Licensees (The Vincent County Council) shall be entitled to compensation not exceeding the value of the works constructed for the purposes of the Licenses at the time of granting of the Change of Purpose, less an allowance for depreciation, if any, between the cost of the work as at the ~~xxxxxxx~~ date the Change of Purpose is assented to by the Minister of Mines, and the date this option is exercised, and in addition compensation on the same lines for any further works constructed after the County acquires the Change of Purpose and which may be found necessary for the proper distribution of the water from farm to farm, but not to include the cost of any internal distribution races or works within the farms for internal distribution of water.
2. That proper books shall be kept showing such construction costs as apart from maintenance costs.
3. That if so called upon by the Crown, no water shall be diverted under Licenses Nos. 291b and 301b until 10 Government heads are available for diversion under License No. 1841a, dated 188110 (being renewal of License No. 5625a) at present held in the name of the Alexandra Borough Council and under process of transfer to His Majesty the King.



*J. J. Warden*  
Warden

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1922

*J. J. Warden*  
Warden

CHANGE OF PURPOSE CONCERNED TO  
SUBJECT TO TERMS AND CONDITIONS  
FILED IN WARREN'S COURT, AND SUBJECT TO THE CONDITIONS REFERRED TO IN  
dated at Wellington this 26 day  
of July 1922.

*J. J. Warden*  
Minister of Mines.

*Discharge of mortgage of 883  
Serge Poley, William W. Conradi,  
John D. Poley & William Poley  
Re Warranted Title B. 11. C. 21d.*

Registered at the Office of the Mining Registrar,  
Wellington, on the 24 day of October 1921, at  
No. 1053

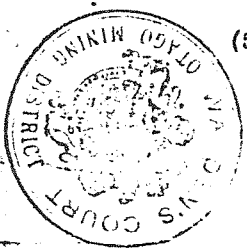
*W. J. Blair*  
Mining Registrar

TRANSFER of all interest in the within License from Vincent County Council  
to HIS MAJESTY THE KING, by writing dated the 26 day of  
September, 1925, received and registered at W. ACKS, this 11  
day of July, 1926, at 9 30 a.m.  
Registration No. 1566  
*W. J. Blair*  
Mining Registrar.



Pursuant to application No. 1/21 Blacks in that behalf (the consent of the Hon. the Minister of Mines having been first obtained) Change of Purpose of the within water-race and the water authorised to be diverted therein viz., four government heads of water, from "Goldmining" to "Goldmining, Irrigation & Industrial" purposes is granted for the unexpired term of the license, subject to the conditions that one half of the said four heads for the time being available shall be at the disposal (but solely for mining purposes) of the persons holding inferior rights for mining purposes, and in order of priority "inter se" on payment of such fees to the licenses as the Warden for the time being prescribes, and subject further to the following conditions :-

*Change of Purpose*  
 Registered at the Office of the Mining Registrar, Blacks, at 10 a.m. on 13.9.1922, as No. 10111  
*W. J. Black*  
 Mining Registrar



- (1) That in the event of an application being made by the Vincent County Council or its Successors in title for permission to alter the intake and course of the water-granted out of Thomson's Creek then and in such case it shall be diverted under the said licenses until the same now held by Frederick William Wilson, Thomas Moran, Lena Stafford, and Thomas James Stafford are fully supplied.
- (2) That the Vincent County Council shall provide a sum of money for the purchase of mining plant on the Miners providing one fourth of the purchase money of the said plant
- (3) The said Miners shall have the right to use the said plant for the purpose of carrying on mining operations in the Matakanni Riding of the Vincent County.
- (4) The said money provided by the Vincent County Council shall be raised by loan under the "Loan to Local Bodies Act, 1913"
- (5) The Miners shall pay off the monies provided by the Vincent County Council by half yearly payments covering the interest and sinking fund payable by the County in respect of the said loans.

*Dated at Blacks this 25th day of August 1922*

*W. J. Black*  
 Warden.

CHANGE OF PURPOSE CONSENTED TO  
 SUBJECT TO TERMS AND CONDITIONS  
 FILED IN WARDEN'S COURT, AND SUBJECT ALSO TO CONDITIONS NUMBERED 1, 2, 3, 4, 5 AND 6 SET FORTH IN CERTAIN MINING LICENSES.  
 Dated at Wellington this 26th day  
 of July 1922.

*J. H. Williams*  
 Minister of Mines.

*Discharge of Mortgage No: 883*  
*Serge Ruby, William McConachie,*  
*John Richard & William Reidman*  
*vs*  
*The Undersigned Trustees B. N. of Ltd.*

Registered at the Office of the Mining Registrar, Blacks, at 10 a.m. on 24th October 1921, as No. 1053

*W. J. Black*  
 Mining Registrar

TRANSFER of all interest in the within License from *Vincent County Council* to HIS MAJESTY THE KING by writing dated the 26th day of *September*, 1935, received and registered at BLACKS this 11th day of *July*, 1936, at 9.70 a.m.  
 Registered on 11.7.1936  
*W. J. Black*  
 Mining Registrar.

No. 55309

from deposit 11 2 17

Office of the Receiver of Gold Revenue,

Black 31 July 1917

Tinkers

Received from ~~James~~ *James* & Co the sum of \_\_\_\_\_

pounds *five* shillings and \_\_\_\_\_ pence, being ~~1/4~~ on \_\_\_\_\_

*Exc WR Lic 30 13*

in his occupation, for the period from \_\_\_\_\_ to \_\_\_\_\_

~~£ 5/1~~

*W. H. L. R. S.*  
Receiver.

*first final*

Date of last preceding payment: \_\_\_\_\_

Amount: £ \_\_\_\_\_

VOUCHER No.

134677

Black

31 June, 1903

Received from Yankers Gm Co the sum

of \_\_\_\_\_ pounds

one shillings and \_\_\_\_\_ pence,

being from Reg<sup>n</sup> 302 for Exchange  
W R L Co

Rs 1 : 0

Frederick [Signature]

From deposit 12387

VOUCHER No.

134676

Black

162

31 June, 1903

Received from Yankers Gm Co the sum

of \_\_\_\_\_ pounds

one shillings and \_\_\_\_\_ pence,

being from Reg<sup>n</sup> 302 for Surrender  
in Exchange W R L Co

Rs 1 : 0

Frederick [Signature]  
Receiver.

115/13  
3.50 p  
May 1903  
Fredrick S. [unclear]  
Mining Registrar

License  
no 303<sup>d</sup>

John 22  
Vol 11, 15  
162  
[Form B] (Reg. 29)

Under "The Mining Act, 1898."

License for a Water-race.

Registered no 303  
Blacks  
10 am on  
31 July 1903  
Fredrick S. [unclear]  
Mining Registrar

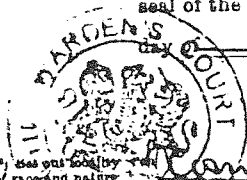
PURSUANT to "The Mining Act, 1898," I, the undersigned  
James M Ennis a Warden of the  
Otago Mining District, do hereby grant to  
The Sinkers Gold Mining Company  
Limited of Matarami

(\*) Full name, rank, source, and occupation.

this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of 14 years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at Blacks, this 28th May, 1903



FIRST SCHEDULE.

*J. M. Ennis*  
Warden.

(\*) See also section 104 of the Act of 1898, and nature of the proposed work as set out in application, modified, however, so as to accord with the grant, adding such other particulars as are necessary, including plan of land if surveyed, number of heads authorized to be diverted, and purpose for which water is to be used.

Commencing at a point in Thompsons  
Creek about 2 miles above Glasstons  
old Home Station and terminating at  
Sugarpot - Length 2 mi. with right to  
divert 4 Govt. heads of water for gold  
mining purposes, priority to such  
water to date from and including  
1st Aug. 1865 being the 3rd right out of  
Thompsons Creek

The above license is granted in exchange for Water Race License no 4011 dated 4th July 1888 (which has been duly surrendered for the purpose of such exchange) and confers the same privileges and is subject to the same encumbrances liens and interests as in the case of the surrendered Mining Privilege Priority to date from and including 1st August 1865

*for*  
*part*



Pursuant to application No. 13/1935 Black's in that behalf (the consent of the Hon. the Minister of Mines having been first obtained) Change of Purpose of the within water-race and the water authorized to be diverted therein viz., one government head of water from "Goldmining" to "Goldmining, Irrigation & Industrial" purposes is granted for the unexpired term of the license, subject to the conditions that one half of the said head for the time being available shall be at the disposal (but solely for mining purposes) of the persons holding inferior rights for mining purposes, and in order of priority "inter se" on payment of such fees to the Licensee as the Warden for the time being prescribes, and subject further to the following conditions :-

- (1) That in the event of an application being made by the Vincent County or its Successors in title for permission to alter the intake and course of the water-rights granted out of Thomson's Creek then and there in any case no water shall be diverted under the said licenses until the rights now held by Frederick William Wilson, Thomas Moran, Lena Stafford, and Thomas James Stafford are fully supplied.
- (2) That the Vincent County Council shall provide a sum of money for the purchase of mining plant on the Miners providing one fourth of the purchase money of the said plant.
- (3) The said Miners shall have the right to use the said plant for the purpose of carrying on operations in the Matakana Riding of the Vincent County.
- (4) The said money provided by the Vincent County Council shall be raised by loan under the "Loan to Local Bodies Act 1913".
- (5) The Miners shall pay off the monies provided by the said Vincent County Council by half yearly payments covering the interest and sinking fund payable by the County in respect of the said loans.

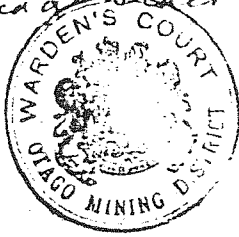
Change of Purpose  
 Resubmission of the application of the Mining Licensee at Blacks  
 No. 13/1935  
 13/9/1935  
 W. E. Black  
 Mining Registrar

CHANGE OF PURPOSE CONCERNING NO. 13/1935 IN TERMS OF CONDITIONS SET FORTH IN WARDEN'S COURT, AND SUBJECT TO CONDITIONS NUMBERED 1, 2, 3 & 5 AS SET FORTH IN WARDEN'S COURT, AND ATTACHED.

Dated at Wellington this 25th day of July 1935.

*J. M. ...*  
 Minister of Mines.

*Dated at Blacks this 25th day of August 1935.*



*F. Wilson*  
 Warden.

TRANSFER of all interest in the within license from *Vincent County Council* to HIS MAJESTY THE KING, by writing dated the 26th day of *September* 1935, received and registered at BLACKS, this 11th day of *July* 1936, at 9 30 a.m.  
 Registration No. 1566  
*W. E. Black*  
 Mining Registrar.

12th  
May 1903  
Mining Registrar

number  
No. 289<sup>B</sup>  
Under "The Mining Act, 1898."

(163)  
Form 51 (1898)

Registered No. 289  
Checked  
on 31st  
May 1903  
Mining Registrar

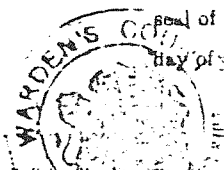
License for a Water-race.

PURSUANT to "The Mining Act, 1898," I, the undersigned \_\_\_\_\_  
James McEneaney, a Warden of the  
Waga Mining District, do hereby grant to  
" The Unadorned Gold Mining Company  
Limited of Marakau  
this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of 42 years, commencing on  
the date hereof, subject to the terms, conditions, reservations, and provisions  
set out in the aforesaid Act and the regulations thereunder, and also to such  
additional terms, conditions, reservations, and provisions as are specified in the  
Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the  
Seal of the Warden's Court at Blacko, this 28th  
day of May, 1903.

*W. E. ...*  
Warden

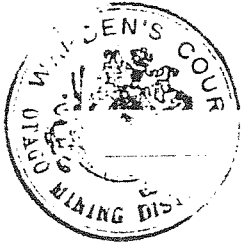


FIRST SCHEDULE

(1) Before the  
of the proposed  
work as shown on  
application, and  
ted, however, so as  
to accord with the  
grant, adding such  
other particulars as  
are necessary,  
including plan of  
land if surveyed,  
number of heads  
authorized to be  
diverted, and pur-  
pose for which water  
is to be used.

Marakau commencing at a point in Smokers  
Main Gorge about 30 yards below where the said  
Company's Race crosses Smokers Gully taking  
all tributaries in its course and terminating  
about 300 yards east of Peap's house Smokers  
length 1 1/4 miles, course east and west depth  
1 foot 6 inches, breadth 2 feet with right to divert  
one Government head of Water for gold mining  
purposes priority to date from and including 23 Nov 1865  
The above License is granted in Exchange for  
Water Race License No 4071 dated 4 March 1891  
(which has been duly surrendered for the purpose  
of such Exchange) and confers the same priorities  
and is subject to the same encumbrances liens  
and interests as in the case of the surrendered  
Mining Privilege - Priority to date from and  
including 23rd November 1865.

1. That the Crown shall be empowered at any time to acquire the whole or any part of the licenses, in which case the former licensees (The Vincent County Council) shall be entitled to compensation not exceeding the value of the works constructed for the ~~licensee~~ purposes of the licenses at the time of granting of the change of purpose, less an allowance for depreciation, if any, between the cost of the work as at the change of purpose is assented to by the Minister of Mines, and the date this option is exercised, and in addition compensation on the same lines for any further works constructed after the County acquires the change of purpose and which may be found necessary for the proper distribution of the water from farm to farm, but not to include the cost of any internal distribution races or works within the farms for internal distribution of water.
2. That proper books shall be kept showing such construction costs as apart from maintenance costs.
3. That if so called upon by the Crown, no water shall be diverted under Licenses Nos. 297B and 301B until 10 government heads are available for diversion under License No. 1540a, dated 18/5/10 (being renewal of License No. 5825a) at present held in the name of the Alexandra Borough Council and under process of transfer to His Majesty the King.



*Warden*  
Warden

Warden.



VOUCHER No. 134662

163

Blacks

31 July, 1913

Received from Undaunted Gm Co the sum  
of \_\_\_\_\_ pounds

One shillings and \_\_\_\_\_ pence,

being from Reg<sup>n</sup> 288 for Surrender in  
exchange of W R Ltd.

£ 1 : 1 : 0

[Signature]

from deposit 12349

VOUCHER No. 134663

163

Blacks

31 July, 1913

Received from Undaunted Gm Co the sum  
of \_\_\_\_\_ pounds

One shillings and \_\_\_\_\_ pence,

being from Reg<sup>n</sup> 289 for Exchange  
W R Ltd

£ — : 1 : 0

[Signature]  
Receiver.

No. 55302

from Deposit 12347

163

Office of the Receiver of Gold Revenue,

Blacks 31 July 1903

Received from Unaccounted G.M. Co the sum of

pounds five shillings and pence, being

Use W. Race Lic 289 B

in his occupation, for the period from to

[Stamp]

[Signature]

Receiver.

Date of last preceding payment:

Amount: £

161  
 No. 395  
 Dated 24th March, 1908

Under "The Mining Act, 1898."

WARDEN

License for a Quarter-Block.

Agreement by way of Sale  
 of the Gold Mining  
 Property situated in the  
 Township of ...  
 between ...  
 and ...  
 18th December, 1907, at ...  
 553

Witness my hand and seal this  
 18th December, 1907, at ...  
 553

Witness my hand and seal this  
 18th December, 1907, at ...  
 553

Witness my hand and seal this  
 18th December, 1907, at ...  
 553

Witness my hand and seal this  
 18th December, 1907, at ...  
 553

Witness my hand and seal this  
 18th December, 1907, at ...  
 553

Receipt

No. 295

164

(Form B) (Imp. 46)

Under "The Mining Act, 1898."

License for a Water-race.

May 1903  
Medical Officer  
Mining Registrar  
No. 295  
on 31 July 1903

Medical Officer  
Mining Registrar

PURSUANT to "The Mining Act, 1898," 1, the undersigned  
James McEwen, a Warden of the  
Otago Mining District, do hereby grant to

The Undershafted Gold Mining Company  
Limited of Marabanni  
this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of 2 years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at Blacks, this 28 day of May, 1903

*James McEwen*  
Warden.

FIRST SCHEDULE.

Situate at Marabanni commencing at a point in  
Thompsons Creek upper below head of Reas Race  
and terminating at Inkens Gully - length  
8 miles - with right to divert to Govt. heads of  
works for gold mining purposes  
priority to date from and including  
9 April 1866

The above license is granted in exchange for  
Water Race Lic. No. 4012 dated 4 July 1888 (which  
has been duly surrendered for the purpose of  
such Exchange) and confers the same  
privileges and is subject to the same  
incumbrances, liens and interests as in the  
case of the surrendered Mining Privilege  
Priority to date from and including 9th  
April 1866

(\*) Full name, real  
name, and occupa-  
tion.

(\*) Set out locality  
of race and nature  
of the proposed  
work as set forth in  
application, modified,  
however, so as  
to accord with the  
grant, adding such  
other particulars as  
are necessary,  
including plan of  
land if surveyed,  
number of heads  
authorized to be  
diverted, and pur-  
pose for which water  
is to be used.

1903  
on 31 July 1903

1. That the Crown shall be entitled at any time to acquire the whole or any part of the licenses, in which case the former licensee (the Victoria County Council) shall be entitled to compensation not exceeding the value of the works constructed for the purposes of the licenses at the time of granting of the Change of Purpose, less an allowance for depreciation, if any, between the cost of the work as at the date the Change of Purpose is assented to by the Minister of Mines, and the date this option is exercised, and in addition compensation on the same lines for any further works constructed after the County acquires the Change of Purpose and which may be found necessary for the proper distribution of the water from farm to farm, but not to include the cost of any internal distribution races or works within the farms for internal distribution of water.
2. That proper books shall be kept showing such construction costs as apart from maintenance costs.
3. That if so called water by the Crown, no water shall be diverted under Licenses Nos. 1511b and 1511c until 10 government heads are available for diversion under License No. 1540a, dated 10/8/10 (being renewal of License No. 1542a) at present held in the name of the Alexandra County Council and under process of transfer to His Majesty the King.



*A. J. ...*

Warden

Pursuant to application No. Black's in that behalf (the consent of the Hon. the Minister of Mines having been obtained) Change of Purpose of the within water race and the water authorized to be diverted therein viz., Six Government heads of water, from 'Gold-mining' to Goldmining, Irrigation & Industrial' purposes is granted for the unexpired term of the License, subject to the conditions that one half of the said for the time being available shall be at the disposal (but solely for mining purposes) of the persons holding inferior rights for mining purposes, and in order of priority 'inter-se' on payment of such fees to the Licensee as the Warden for the time being prescribes, and subject further to the following conditions:-

- (1) That in the event of an application being made by the Vincent County Council or its Successors in title for permission to alter the int're and course of the water rights granted out of Thomson's Creek then and in such case no water shall be diverted under the said Licenses until the rights now held by Frederick William Wilson, Thomas Moran, Lena Stafford and Thomas James Stafford are fully supplied.
- (2) That the Vincent County Council shall provide a sum of money for the purchase of mining plant on the Miners providing one fourth of the purchase money of the said plant.
- (3) The said Miners shall have the right to use the said plant for the purpose of carrying on mining operations in the Matakanui riding of the Vincent County.
- (4) The said money provided by the Vincent County Council shall be raised by loan under the 'Loan to Local Bodies Act 1913'
- (5) The Miners shall pay off the monies provided by the said Vincent County Council by half yearly payments covering the interest and sinking fund payable by the County in respect of the said loans.

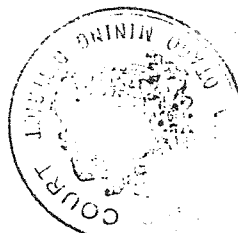
*Dated at Blacks this 26th day of August 1922.*

*Warden*

RANGE OF PURPOSE CONSENTED TO SUBJECT TO TERMS AND CONDITIONS FILED IN WARDEN'S COURT, AND SUBJECT ALSO TO CONDITIONS NUMBERED 1, 2 & 3 AS SET FORTH IN SCHEDULE "B" FILED IN ATTACHED.

Dated at Wellington this 6th day of July 1922.

Minister of Mines.



TRANSFER of all interest in the within License from *Vincent County Council* to HIS MAJESTY THE KING by writing dated the 26 day of September, 1935, received and registered at BLACKS this 11 day of July, 1936, at 9:30 a.m. Registration No. 1566  
Mining Registrar.

13. 9. 1922  
1007  
109  
Blacks  
Mining Registrar

31 July, 1923

Received from Undaunted Gulls the sum

from "Gold-  
es is granted  
conditions  
e shall be  
the persons  
order of  
sense as the  
ther to the

~~\_\_\_\_\_~~ pounds  
One shillings and \_\_\_\_\_ pence,

for on Regis Zoo for Surrender  
in Exchange of W R Lic

by the Vincent  
permission to  
granted out  
er shall be  
ats now held  
Stafford and

1: 1: 0

*Frederic P. Jones*  
Receiver.

sum of money  
providing one

as said plant  
ons in the

Form - Receiver's Receipt. Regulation 16.]

(250 bks./6/1902-4646)

Council shall  
es Act 1913"

Vincent County Council by half yearly payments covering the  
interest and sinking fund payable by the County in respect  
of the said loans.

Dated at Blacks this 25th day of August 1922.

*[Signature]*  
Warden.

RECORDS CONSENTED TO  
TERMS AND CONDITIONS  
OF HIS COURT, AND SUBJECT ALSO TO CONDITIONS NUMBERED 1, 2 & 3 AS  
CONTAINED MARKED "A" ATTACHED.  
at Blacks this 6<sup>th</sup> day  
of 1922.

*[Signature]*  
Minister of Mines.



of all interest in the within License from Vincent County Council  
HIS MAJESTY THE KING. by writing dated the 26<sup>th</sup> day of  
December, 1935, received and registered at BLACKS, this 11<sup>th</sup>  
of July, 1936, at 9:30 a.m.  
at Blacks on No. 1566  
*[Signature]*  
Mining Registrar.

(181)

MASEBY.

No. 5784

DATED 3rd October, 1938

UNDER THE MINING ACT, 1936.

XIII 295.

WARDEN  
TO

HIS MAJESTY THE KING

License for a water-race.



1938. 15/38  
July, 1938 at 9.30 a.m.  
: 14th July, 1938 at 11 a.m.  
F.A. Harlow

5784

[Form 81 (Reg. 33)]

Under the Mining Act, 1926.

LICENSE FOR A WATER-RACE.

PURSUANT to the Mining Act, 1926, I, the undersigned,

~~JAMES RANKIN BARTHOLOMEW~~

, a Warden of the

Otago

Mining District, do hereby grant to

(1) HIS MAJESTY THE KING

this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of 21 years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act, and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at \_\_\_\_\_, this *third* day of ~~September~~ *October*, 1938

Subscribed

FIRST SCHEDULE.

(2) Commencing at a point in the Dunstan Creek at the junction with Donald Stewart Creek, thence running generally in a Southerly direction through River Reserve in Block 4, Blackstone S.D. and terminating in course of water race held by the applicant under License No. 4904 together with strips of land ten feet wide on both sides of the said race along the entire length of the course. Length and intended course: 29 chains - South. One point of intake from Dunstan Creek. Already constructed. Depth 1'6". Breadth 2'6". Number of heads to be diverted: 15. Purpose for which water is to be used: Irrigation and domestic. Pegs marked X

*H. J. ...*  
*Warden*

CONSENTED TO.

Dated at *Wellington*

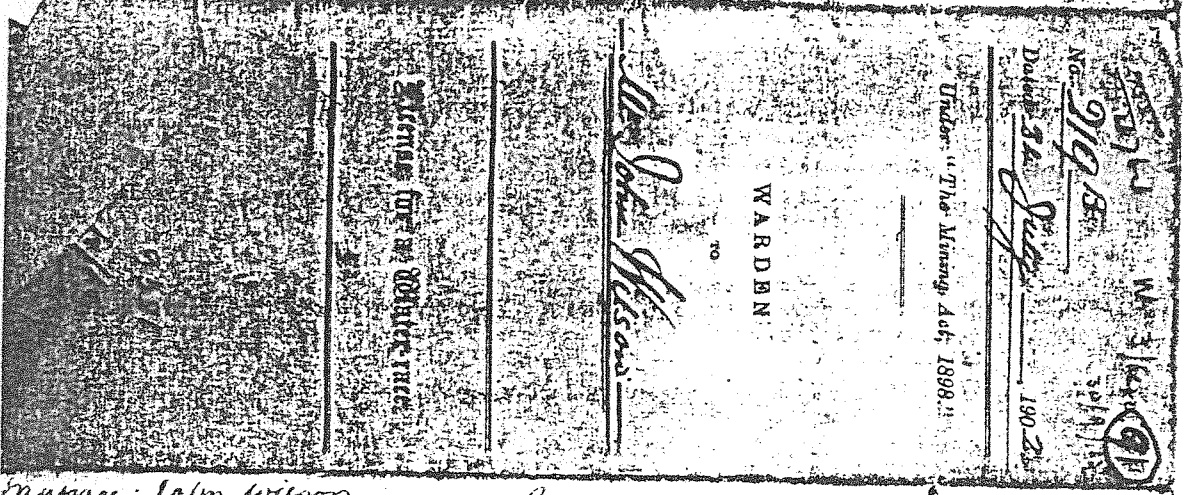
*S. J. ...*

} the Minister all money to the Law Section State Department  
 } Office Department  
 } 4 October 1911  
 } J. J. [Signature]  
 } Mining Registrar

Assignment by way of  
 mortgage of land to  
 John Wilson & Co  
 Blacks 10 a  
 at the office of the Mining  
 Registrar  
 on 10th June 1913 at No. 1093  
 [Signature]

Discharge of mortgage  
 No 795 by [Signature]  
 Registrar BLACK'S, at 10 a  
 on 10th June 1919  
 No. 908  
 [Signature]  
 Mining Registrar

Assignment by way of  
 mortgage of land to  
 John Wilson & Co  
 Blacks 10 a  
 at the office of the Mining  
 Registrar  
 on 10th June 1914 at  
 No. 909  
 [Signature]  
 Mining Registrar



Mortgage: John Wilson  
 to  
 John Wilson & Co  
 at the office of the Mining  
 Registrar  
 Blacks 10 a  
 on 2nd June 1905 at No. 1090  
 W.F. Black  
 Mining Registrar

Release of mortgage No 909  
 by [Signature]  
 Registrar  
 Blacks 10 a  
 on 6th April 1905  
 W.F. Black  
 Mining Registrar

Satisfaction of mortgage  
 the [Signature]

Registrar  
 Blacks 10 a  
 on 1st April 1925  
 1094

W.F. Black  
 Mining Registrar  
 Assignment: John Wilson  
 to Donald Reid & Co  
 at the office of the Mining  
 Registrar  
 Blacks 10 a  
 on 1st April 1925  
 1096  
 W.F. Black  
 Mining Registrar

**ASSIGNMENT BY WAY OF MORTGAGE.**  
 John Wilson to Donald Reid & Co.  
 Limited, National Mortgage & Agency  
 Company of New Zealand Limited, The  
 Otago Farmers Co-operative Assoc-  
 iation of New Zealand Limited, New  
 Zealand Loan & Mercantile Agency  
 Company Limited, and Stronach  
 Morris & Company Limited.

Registered at the office of the  
 Mining Registrar Blacks  
 at 10 a.m. on 28/7/30  
 at No. 1200.  
 W.F. Black  
 Mining Registrar.

2502

License No 219<sup>2</sup>

(411)

23<sup>d</sup>  
day of June 1902

[Form B1 (log 94)]

Frederick S. Spurr  
Mining Registrar

Under "The Mining Act, 1898."

License for a Water-race.

Registered 219<sup>2</sup>  
Blacks  
29 July 1902  
Frederick S. Spurr  
Mining Registrar

PURSUANT to "The Mining Act, 1898," I, the undersigned \_\_\_\_\_

James McEnnis \_\_\_\_\_, a Warden of the  
Otago \_\_\_\_\_ Mining District, do hereby grant to

John Wilson  
of Ophir: Farmer \_\_\_\_\_

(1) Full name, resi-  
dence, and occupa-  
tion.

this License for a water-race, as specified in the First Schedule hereto.

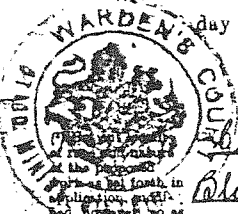
This License is granted for a term of 42 years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at Blacks \_\_\_\_\_, this 21<sup>st</sup> \_\_\_\_\_

day of July 1902 \_\_\_\_\_

FIRST SCHEDULE.

James McEnnis  
Warden



The Warden of the District of Otago, in pursuance of the provisions of the Mining Act, 1898, do hereby certify that the above is a true and correct copy of the original as the same appears in the books of the Warden's Court, and that the same has been examined and found to be correct.

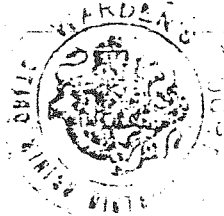
Commencing in Muddy creek in section 48 Block II Otago Hill District and running through sections 48 49 50 and 51 of said Block, and terminating at section 30 of said Block length 5 miles: Mean Depth and Breadth eff. by 2 ft. Diverting 2 heads of water for irrigation purposes  
Altered by certificate 2584/10-90 commencing at a point in above water race in section 48 Block III Otago Hill District, running thence into and through sections 50 49 51 52 and thence into applicants sections 53 54 of same Block, originally granted with written permission of owners of said sections endorsed on application. Length of alteration: 3 miles.

## SECOND SCHEDULE.

(1) Set out additional terms, etc., if any.

u. Memorandum.

The above licence is granted in exchange for Water Race licence 218<sup>B</sup> dated 22<sup>nd</sup> May 1902 granted as a renewal of licence  $\frac{5863}{1884}$  which has been duly surrendered for the purpose of such exchange, and conveys the same priorities and is subject to the same encumbrances, liens, and interests as in the case of the surrendered mining privilege - to wit, the following: Priority to date from and including 2<sup>nd</sup> May 1884.



*J. M. Morris*  
Warden.

PURSUANT to application No. 44/35 Blacks in that behalf PERMISSION is hereby given to change the intake and alter the course of water race held under License No. 219, dated 24/7/02 (Blacks) as set out in the schedule hereto:

SCHEDULE

DESCRIPTION: Commencing at a point in Muddy Creek on the Lauder-Dryread Road in front of Section 38 Block VI Lauder District about three miles above present authorised intake running South across the said road and terminating in the altered course held under License No. 77/14 dated 27/4/98 in Section 42 of said Block and thereafter running therein. Course marked E on plan filed with application No. 42/35 Blacks. Length and Intended course: 1 1/2 chains South Estimated time and cost of construction: 2 weeks - \$60 Mean Depth & Breadth 3ft. by 1 ft. Pegs: 1

DATED AT BLACKS THIS FIFTH DAY OF DECEMBER 1935.

*W. J. ...*  
WARDEN.

REGISTERED AT THE OFFICE OF THE MINING REGISTRAR AT BLACKS AT 11th DECEMBER 1935 AS No. 1548

*W. J. ...*  
Mining Registrar

Pursuant to application 45/35 Blacks water in race 529/55 Blacks to run in new course of within water race No. 219 as endorsed on license for water race No. 529.

REGISTERED AT THE OFFICE OF THE MINING REGISTRAR AT BLACKS AT 11th DECEMBER 1935. as No. 1549

*W. J. ...*  
Mining Registrar.

TRANSFER of all interest in the within license from *Donald Reid & Co.* to *Neo Magsaly King* by writing dated the 10<sup>th</sup> day of *December*, 1935, received and registered at Blacks this 6<sup>th</sup> day of *January*, 1936, at 5 P. M.  
Registration No. *1556*  
*W. J. ...*  
Mining Registrar.

*Registered at the Office of the Mining Registrar at Blacks, New Zealand, on 30 March 1937, as No 1723*  
*Reed*  
Mining Registrar

Registered at the Office of the Mining Registrar at Blacks, New Zealand, on 30 March 1937, as No 1723  
*Reed*  
Mining Registrar

*Discharge of mortgage No. 1090*

Registered at the Office of the Mining Registrar at Blacks, New Zealand, on 23.1.1935, as No. 1486  
*Reed*

No 50310

Excess Deposit 8400

(91)

Office of the Receiver of Gold Revenue,

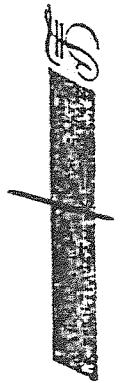
Black 29 July 1902

Received from John Wilson the sum of

pounds three shillings and two pence, being fee on

Exchange Hotel Race license 2198

in his occupation, for the period from \_\_\_\_\_ to \_\_\_\_\_



*Stephen Spang*  
Receiver

Date of last preceding payment: five months payment

Amount: £ \_\_\_\_\_

VOUCHER No. 15951

13 lbs

29 July, 1902.

Received from John Wilson the sum

of \_\_\_\_\_ pounds

one shilling and \_\_\_\_\_ pence,

being fee on registration) 220 for Surrender  
for exchange of Water Race 2130

£ 1 : 1 : -

W. Redman  
Receiver

First Form—Receiver's Receipt. Regulation 16.]

[22,500/1901—642

from deposit 8400

VOUCHER No. 113950

(51)

13 lbs

29 July, 1902.

Received from John Wilson the sum

of \_\_\_\_\_ pounds

one shilling and \_\_\_\_\_ pence,

being fee on Registration) 219 for Exchange  
Water Race License

£ 1 : 1 : -

W. Redman  
Receiver

First Form—Receiver's Receipt. Regulation 16.]

[22,500/1901—643

BLACKS

(177)

No. 515

DATED 30th August 19

1890  
UNDER THE MINING ACT, 1850

WARDEN  
TO

His Majesty the King

License for a Water-face.



Jeffreys  
Registrar

[Form 31 (Reg. 33).

Under the Mining Act, 1898

LICENSE FOR A WATER-RACE.

PURSUANT to the Mining Act, 1898, I the undersigned,

JAMES McENNIS

a Warden of the

OTAGO

Mining District, do hereby grant to

HIS MAJESTY THE KING

this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of - 42 - years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act, and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at - Blacks - , this - 30th - day of - August - , 1939

(Sgd) J. McEnnis  
Warden.

FIRST SCHEDULE.

In Lauder District starting in Block I at a point in Scotts' Creek about 30 chains below the northern boundary of Block I and terminating in same Block at point 500 yards south of starting point.

Mean depth and breadth four (4) feet by ten (10) feet.

To divert (subject to the conditions hereinafter set out) five (5) government heads of water for irrigation purposes.

Estimated time and cost of construction: 2 years: £100

(Sgd) J. McEnnis

Warden.

I.S.

DUPLICATE, issued this 6th day of December, 1939.

SECOND SCHEDULE.

This license is granted subject to the condition  
That all persons through whose land the continuous course  
of race may traverse being notified before this race is  
constructed or the continuous race is granted and that such  
persons shall have the right to ask for an order for the  
construction of bridges across the said race or races

(Sgd) J. McEnnis

Warden.

L.S.

00/12/35-11118

CHANGE OF INTAKE AND ALTERATION OF COURSE.

Pursuant to application No.28/39 Alexandra in that behalf  
the intake and course of the within Water Race are hereby altered  
as set out hereunder:

" Commencing at a point in Scott's Creek in Run 223 K Lauder  
District approximately 15 chains above the present intake as  
shown on the within license running in a north easterly direction  
for 2,300 yards through Runs 223 K and 223 ° and terminating at  
the north eastern boundary of the latter Run.

Length and intended course of alteration: 2,300 yards North East.  
Method of time and work of construction: already constructed.

Mean depth and breadth: 2'6" x 1'6". Pegs marked: K<sup>a</sup>

Dated at Alexandra this 8th November 1939.

Registered at the Office of the  
Mining Registrar ALEXANDRA

at 12.00 p.m. on 8 DEC 1939

2692, W. Donald  
Mining Registrar

Warden.

Warden's  
 Permission } Pursuant to application No. 358  
 Registered } 1905 in that behalf the Warden has granted permission  
 No 358 } to run the water way, three government heads authorized  
 Blacks } to be derived from Mosses Creek under license  
 No 308 B in the Water Race herein described, during the  
 currency of the said license - 10 am 25 January 1904  
*J. F. J. J. J.*  
 Mining Registrar

Warden's  
 Permission } Pursuant to application numbered 346 also dated 25 H  
 Registered } February 1904 in that behalf the Warden has granted  
 346 } permission to run the water way, one government head  
 Blacks } head under license No 289 B in the Water Race herein  
 10 am 8 March 1904  
*J. F. J. J. J.*  
 Mining Registrar

No. 301 B 1904  
 Dated 28th May 1904  
 WPA R. D. N.  
 Under The Mining Act 1898  
 LICENSE FOR A WATER-RACE

Warden's  
 Permission } Pursuant to application numbered 344 also dated  
 Registered } 25 February 1904 in that behalf the Warden has granted  
 No 344 } permission to run the water way, two government  
 Blacks } heads head under license No 291 B in the Water  
 Race herein described, during the currency of the  
 said license - 10 am 8 March 1904  
*J. F. J. J. J.*  
 Mining Registrar

Department of Lands and Mines  
 Mining Registrar  
 No. 344  
 Dated 19th December 1904  
 BLACK'S 100  
 12th July 1904  
 W. Blair

Approved by [Signature] 1904  
 Registrar, Blacks

1904  
 W. Blair

Management by [Signature] 1904  
 Registrar, Blacks

1904  
 W. Blair

1904  
 W. Blair

11.5/03  
3:50 p  
10 a m on  
31 July 1903  
Hedrick Hoff  
Mining Registrar

— License —  
— No. 301 B —

July 21  
Vol III  
155  
(Form B1 (Reg. 24))

Under "The Mining Act, 1898."

License for a Water-race.

Registered No 301  
Hedrick Hoff  
Mining Registrar

PURSUANT to "The Mining Act, 1898," I, the undersigned \_\_\_\_\_

James McEnnis, a Warden of the  
Otago Mining District, do hereby grant to

The Undaunted Gold Mining Company  
Limited of Mataranui

this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of 12 years, commencing on the date hereof, subject to the terms, conditions, reservations, and provisions set out in the aforesaid Act and the regulations thereunder, and also to such additional terms, conditions, reservations, and provisions as are specified in the Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the seal of the Warden's Court at Blacks, this 28th day of May, 1903.

FIRST SCHEDULE

It is not necessary to state the nature of the proposed works as set forth in application, modified, however, so as to accord with the grant, adding such other particulars as are necessary, including plan of land if surveyed, number of heads authorized to be diverted, and purpose for which water is to be used.

Situate in Devonshire commencing at a point in H  
creaks viz Murrumbidgee, Shepherds Sheeps Head or local  
brook, Middle and Devonshire Gullies tributaries  
of Ohatoe Creek, west side of Manuhirika River and  
terminating at south western boundary of gold  
mining lease Section 5 Block VII Hawan District

Length: 15 miles with right to divert 8 government heads  
of water for gold mining purposes with priority as from  
and including 3rd May 1865 and 1st October 1868  
respectively

The above license is granted in exchange for Water  
Race license No 4025 dated 6th March 1889 (which  
has been duly surrendered for the purpose of such  
Exchange) and confers the same priorities and is  
subject to the same encumbrances, liens and incum-  
-ests as in the case of the surrendered Mining  
Privilege - Priority to date from and including  
3rd May 1865 and 1st October 1868 respectively

(\*) Not out sold:  
Mount terms, do. if  
any

Alteration of course

By which the description of the within Race is made to read as follows, that is to say, commencing at a point in Morrusup Creek about two miles above the head of the Golden Gate Company's Water Race running thence in the direction of Linkers by a new cut for about three miles when it joins the old course of the race and then by original course and terminating at south western corner of gold mining lease Section 5 Block VII Lander District - length 15 miles course east and west - Registered under Certificate no 13036 dated 3 April 1889.

Permission is given to run the water of the south and north branches of Shephard's Creek viz to head bed under License no 14 dated 20 October 1888 held by the Golden Gate Gold Mining Company Limited, in Water Race their Registered under Certificate 44425 dated 11 June 1894



*Warden*  
Warden.

Handwritten notes in a box:  
Handwritten of change of 1889  
George Mason, William 1874  
John L. Phillips & William 3000  
26. Unclaimed. Total 5. 11. 1894  
Docket Block 11. 10. 1894  
on 24. 11. 1894  
1894  
A. J. B. L. T. W.  
Walter Parsons



" A "

I. That the Crown shall be empowered at any time to acquire the whole or any part of the Licenses, in which case the former Licensees (the Vincent County Council) shall be entitled to compensation not exceeding the value of the works constructed for the purposes of the Licenses at the time of granting of the Change of Purpose, less an allowance for depreciation, if any, between the cost of the work as at the date the Change of Purpose is assented to by the Minister of Mines, and the date this option is exercised, and in addition compensation on the same lines for any further works constructed after the County acquires the Change of Purpose and which may be found necessary for the proper distribution of the water from farm to farm, but not to include the cost of any internal distribution races or works within the farms for internal distribution of water.

2. That proper books shall be kept showing such construction costs as apart from maintenance costs.

3. That if so called upon by the Crown, no water shall be diverted under Licenses Nos. 291b and 301b until 10 Government heads are available for diversion under License No. 1540a, dated 18/5/10 (being renewal of License No. 5825a) at present held in the name of the Alexandra Borough Council and under process of transfer to His Majesty the King.



*Handwritten signature*

The Vincent County Council shall provide a sum of money for the purchase of a Mining Plant on the mine providing one fourth of the purchase money of the said plant.

15. 9 1922  
 1009  
 W. Blackie

(5) The said Miners shall have the right to use the said plant for the purpose of carrying on Mining operations in the Waikamui riding of the Vincent County.

(4) The said money provided by the Vincent County Council shall be raised by loan under the "Loan to Local Bodies Act 1913."

(5) The Miners shall pay off the Monies provided by the said Vincent County Council by half yearly payments covering the interest and sinking fund payable to the County in respect of the said loans.

Dated at Blacks this 25th day of August 1922.

*Handwritten signature*  
Warden.

CHANGE OF PURPOSE CONSENTED TO  
 SUBJECT TO TERMS AND CONDITIONS  
 FILED IN WARDEN'S COURT, AND SUBJECT TO SUCH CONDITIONS HEREIN 1, 2 & 3 AS  
 ARE SET FORTH IN SCHEDULE MEMORANDUM "A" ATTACHED.

Dated at Wellington this 6th day  
 of July 1922.

*Handwritten signature*  
 Minister of Mines.



TRANSFER of all interest in the within License from Vincent County Council  
 to HIS MAJESTY THE KING by writing dated the 26th day of  
 September, 1925, received and registered at BLACKS this 11  
 day of July, 1936, at 3 o'clock.  
 Registration No. 1566.  
*Handwritten signature*  
 Mining Registrar.

Pursuant to Application No. Blacks' in that behalf (the consent of the Hon. Minister of Mines having been first obtained) Change of Purpose of the within water race and the water authorised to be diverted therein viz. eight Government heads of water, from 'Gold-mining' to Goldmining, Irrigation and Industrial' purposed is granted for the unexpired term of the License, subject to the conditions that one half of the said eight heads for the time being available shall be at the disposal (but solely for mining purposes) of the persons holding inferior rights for mining purposes, and in order of priority 'inter se' on payment of such fees to the Licensee as the Warden for the time being prescribes, and subject further to the following conditions:-

(1) That in the event of an application being made by the Vincent County Council or its Successors in title for permission to alter the intake and course of the water rights granted out of Thompson's Creek then and in such case no water shall be diverted under the said licenses until the rights now held by Frederick William Wilson, Thomas Moran, Lena Stafford and Thomas James Stafford are fully supplied.

one fourth of the purchase money of the said plant.

(3) The said Miners shall have the right to use the said plant for the purpose of carrying on Mining operations in the Makariri riding of the Vincent County.

(4) The said money provided by the Vincent County Council shall be raised by loan under the 'Loan to Local Bodies Act 1912.'

(5) The Miners shall pay off the Monies provided by the said Vincent County Council by half yearly payments covering the interest and sinking fund payable to the County in respect of the said loans.

Dated at Blacks this 25th day of August 1922.

*Warden*  
Warden.

CHANGE OF PURPOSE CONSENTED TO  
SUBJECT TO TERMS AND CONDITIONS  
FILED IN WARDEN'S COURT, AND SUBJECT ALSO TO CONDITIONS NUMBERED 1, 2 & 3  
ARE SET FORTH IN SCHEDULE MARKED "A" ATTACHED.  
Dated at Wellington this 6th day  
of July 1922.

*J. G. A. ...*  
Minister of Mines.



TRANSFER of all interest in the within License from Vincent County Council  
to HIS MAJESTY THE KING by writing dated the 11th day of  
September 1935, received and registered at  
day of July 1936, at 3.00 p.m.  
Registration No. 1566  
Mining Registrar.

Change of Purpose  
 Vincent County Council  
 11/9/1922  
 A. J. ...



I hereby certify that the following persons are qualified to be licensed as miners under the provisions of the Mining Act, 1903, and that they have taken the prescribed examination and are entitled to be licensed as miners.

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

I hereby certify that the following persons are qualified to be licensed as miners under the provisions of the Mining Act, 1903, and that they have taken the prescribed examination and are entitled to be licensed as miners.

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

No. 306. 167  
 Dated 28th May, 1903.

Under "The Mining Act, 1898."

WARDEN  
 TO  
London Gold & Silver Refiners

License for a Water-tact.

I hereby certify that the following persons are qualified to be licensed as miners under the provisions of the Mining Act, 1903, and that they have taken the prescribed examination and are entitled to be licensed as miners.

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

Name: George James Williams  
 Address: 100a St. George Street, London, E.C. 4  
 Date: 10th August 1913

1903 No. 1167

Under "The Mining Act 1898."

Registered in 306  
Mining Regulation  
Black's

License for a Water-race.

PURSUANT to "The Mining Act, 1898," I, the undersigned  
James McEnnis, a Warden of the  
Utterby Mining District, do hereby grant to

The Inkens Gold Mining Company  
Limited of Marakamui

this License for a water-race, as specified in the First Schedule hereto.

This License is granted for a term of 15 years, commencing on  
the date hereof, subject to the terms, conditions, reservations, and provisions  
set out in the aforesaid Act and the regulations thereunder, and also to such  
additional terms, conditions, reservations, and provisions as are specified in the  
Second Schedule hereto.

In witness whereof I have hereunto subscribed my name, and affixed the  
seal of the Warden's Court at Black's, this 28  
day of May, 1903.

FIRST SCHEDULE

Warden

By the localities  
of the proposed  
workings, with a  
plan of the same,  
showing the  
location of the  
race, and the  
course thereof,  
and also a plan of  
the land to be  
diverted, and  
the purpose for  
which water  
is to be used.

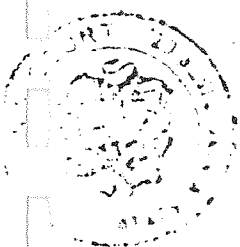
Commencing at a point in Thompson's Creek  
near Inkens about 20 chains above present  
head of the Inkens Race Company's Water  
Race and terminating at the gold mining  
lease at head of Inkens' Gully known as  
"Doggerly's" - length 1/2 mile - depth 1 foot  
6 inches - breadth 3 feet - course west to  
east with right to divert Government  
heads of water for gold mining purposes.  
The above license is granted for a term  
of 15 years from the 4th day of March  
1903 as a renewal of Water Race  
License No. 11001 dated 4th day of  
March 1888 with renewals as from  
and including 4th March 1888

Renewed for a term of 15 years from 4th March  
1903 pursuant to app'n 1/20 in that behalf  
dated 13.2.20. Renewed by G.H.O.  
E. Dunsley  
Warden.

AROUND SCHEDULE

By this order, I do hereby certify that the above is a true and correct copy of the original as the same appears in the records of the office of the Registrar of the said State.

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the said State, at the City of New York, this 26th day of July, 1866.



Register, Blacks, at 11 0000  
on 27th day of July, at  
No. 144

*[Signature]*

Warden.

TRANSFER of all interest in the within licensed from New Liberty Bond  
to HIS MAJESTY, by writing dated the 26 day of  
September, 1865, received and registered at BLACKS this 11  
day of July, 1866, at 11 0000.  
Registration No. 1866  
Mining Register

*[Handwritten notes and signatures]*  
The City of New York  
Register, Blacks, at 11 0000  
on 27th day of July, at  
No. 144  
Other Register  
Register, Blacks, at 11 0000  
on 27th day of July, at  
No. 144  
Mining Register

Pursuant to Application No. Black's in that behalf (the consent of the Hon. the Minister of Mines having been first obtained) Change of Purpose of the within race and the water authorized to be diverted therein viz. six Government heads of water from 'Goldmining' to 'Goldmining, Irrigation and Industry' purposes is granted for the unexpired term of the License, subject to the conditions that one half of the said six heads for the time being available shall be at the disposal (but solely for Mining Purposes) of the persons holding inferior rights for mining purposes, and in order of priority 'inter se' on payment of such fees to the Licensee as the Warden for the time being prescribes, and subject further to the following conditions:-

- (1) That in the event of an application being made by the Vincent County Council or its Successors in title for permission to alter the intake, and course of the water rights granted out of Thomson's Creek then and in such case no water shall be diverted under the said Licenses until the rights now held by Frederick William Wilson, Thomas Moran, Lena Stafford, and Thomas James Stafford are fully supplied.
- (2) That the Vincent County Council shall provide a sum of money for the purchase of Mining plant on the Miners providing one fourth of the purchase money of the said plant.
- (3) The said Miners shall have the right to use the said plant for the purpose of carrying on Mining operations in the Matakahi Riding of the Vincent County.
- (4) The said money provided by the Vincent County Council shall be raised by Loan under the "Loan to Local Bodies Act 1912".
- (5) The Miners shall pay off the monies provided by the said Vincent County Council by half yearly payments covering the interest and the sinking fund payable by the Miners in respect of the said loans.



*Done at Black's Thomson Ridge August 1922*

CHANGE OF PURPOSE CONSENTED TO  
SUBJECT TO TERMS AND CONDITIONS  
FILED IN WARDEEN'S COURT, AND SUBJECT ALSO TO CONDITIONS NUMBERED 1, 2, & 3 AS  
ARE SET FORTH IN SCHEDULE MARKED "A" ATTACHED.  
Dated at Wellington this 13th day of August 1922.

Warden  
*Change of Purpose*  
Registered by the office of the Mining Registrar  
*Black's*  
13 9 1922  
1012  
*W. Black*  
Mining Registrar

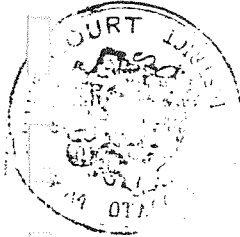
*W. Black*  
Minister of Mines.

*Black's 310p*  
*14 March 1922*  
*1012*

*Approved by deed dated 1st May 1922 in favor of the undersigned*  
*Walter Gold Mining Company*  
*Thomas and Thomas Christy*  
*Thomas James Moran, William*  
*James Young, and*  
*George Stewart*  
*of the mining purposes and*  
*see above rights upon Black's*

RECORDED BY THE OFFICE OF THE MINING REGISTRAR  
*Black's*  
*13 9 1922*  
*W. Black*  
*1012*  
*Approved by deed of 1st May 1922*  
*Thomas and Thomas Christy*  
*Walter Gold Mining Company*  
*Thomas James Moran, William*  
*James Young, and*  
*George Stewart*  
*of the mining purposes and*  
*see above rights upon Black's*  
RECORDED BY THE OFFICE OF THE MINING REGISTRAR  
*Black's*  
*13 9 1922*  
*W. Black*  
*1012*  
*Approved by deed of 1st May 1922*  
*Thomas and Thomas Christy*  
*Walter Gold Mining Company*  
*Thomas James Moran, William*  
*James Young, and*  
*George Stewart*  
*of the mining purposes and*  
*see above rights upon Black's*

1. That the Crown shall be empowered at any time to acquire the whole or any part of the licenses, in which case the former Licensees (The Vincent County Council) shall be entitled to compensation not exceeding the value of the works constructed for the purposes of the licenses at the time of granting of the Change of Purpose, less an allowance for depreciation, if any, between the cost of the work as at the date the Change of Purpose is assented to by the Minister of Mines, and the date this option is exercised, and in addition compensation on the same lines for any further works constructed after the County acquires the Change of Purpose and which may be found necessary for the proper distribution of the water from farm to farm, but not to include the cost of any internal distribution races or works within the farms for internal distribution of water.
2. That proper books shall be kept showing such construction costs as apart from maintenance costs.
3. That if so called upon by the Crown, no water shall be diverted under Licenses Nos. 291b and 301b until 10 government heads are available for diversion under License No. 1540a, dated 16:5:10 (being renewal of License No. 5625a) at present held in the name of the Alexandra Borough Council and under process of transfer to His Majesty the King.



*H. L. ...*  
Warden.

FILED IN WARDEN'S COURT, AND SUBJECT ALSO TO CONDITIONS NUMBERED 1, 2, & 3 AS SET FORTH IN SCHEDULE PLANNED "A" ATTACHED  
 Dated at Wellington this 27 day of July 1922.

Minister of Mines.

*Change of Purpose*  
 Registered at the office of the Minister  
 Licensee *Blair* No. *1012*  
 No. *13* of *1922*  
 No. *1012*  
*W. Blair*  
 Mining Engineer

9th March 1922  
 9110  
*Warden*

Obtained for the said license  
 1922 between the undersigned  
 and the Gold Mining Company  
 of which some of the shareholders  
 are Mr. James Cairns, William  
 Joseph, James Young, and  
 George Humphreys, formerly  
 of the mining premises and  
 now under right upon which

REGISTERED BY THE OFFICE OF THE MINISTER

Licensee *Blair* No. *1012*  
 No. *13* of *1922*

*W. Blair*  
 Mining Engineer

REGISTERED AT THE OFFICE OF THE MINISTER

Licensee *Blair* No. *1012*  
 No. *13* of *1922*

*W. Blair*  
 Mining Engineer

APPENDIX D

WATER USAGE FOR <small>orekai</small> IRRIGATION SCHEME 19 83 / 84 SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
61	McKnight CG	254	-	-	-	-	414.0	302.0	-	-	416.0	162.0
62	McKnight SG	An.Chge.	-	-	-	-	-	-	-	-	-	-
63	Maclean DE	3424.25	-	-	831.0	989.0	2648.0	1312.50	516.50	-	6297.0	2872.75
64	Mee MH	3025	-	-	-	-	585.0	696.0	245.50	-	1526.50	-
65	Mee J Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	-	72.0	264.0	-	104.0	-	440.0	-
67	Milne RL	1996.50	-	-	-	-	-	327.0	96.0	-	423.0	-
68	Maran JF	2916	-	-	-	444.0	824.0	936.0	157.50	-	2361.50	-
69	Morgan JEF	4356	-	-	-	668.0	432.0	328.0	-	-	1428.0	-
70	Naylor EB & DB	3013	-	-	768.0	448.0	448.0	672.0	144.0	-	2480.0	-
71	Naylor G Est.	3146	-	-	-	624.0	678.0	936.0	648.0	-	2886.0	-
72	Void	-	-	-	-	-	-	-	-	-	-	-
73	Void	-	-	-	-	-	-	-	-	-	-	-
74	CO Implement Exchange	1/2" dia. pipe	-	-	-	-	-	-	-	-	-	-
75	Orekai Drain Board	24.25	-	-	-	-	-	-	-	-	-	-
76	Void	-	-	-	-	-	-	-	-	-	-	-
77	Paterson BJ	4598	-	-	821.50	2335.0	3044.0	3122.50	342.0	960.0	10625.0	6027.0
78	Paterson M	3630	-	-	-	572.0	526.0	-	-	-	1098.0	-
79	Void	-	-	-	-	-	-	-	-	-	-	-
80	Heckler MJ	2783	-	-	360.0	1008.0	192.0	1456.0	272.0	-	3288.0	505.0
81	Tucker GF	6352.50	-	-	908.0	1124.0	764.0	644.0	-	72.0	3512.0	-
82	Void	-	-	-	-	-	-	-	-	-	-	-
83	Shaw IG	1210	-	-	-	-	-	-	-	-	-	-
84	Void	-	-	-	-	-	-	-	-	-	-	-
85	Void	-	-	-	-	-	-	-	-	-	-	-
86	Stafford EG & MM	5203	-	-	2060.0	945.0	3098.0	1306.50	1413.50	478.0	9301.0	-
87	Void	-	-	-	-	-	-	-	-	-	-	-
88	Void	-	-	-	-	-	-	-	-	-	-	-
89	Barker WR	-	-	-	-	-	-	-	-	-	-	-
90	Thurlow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET			-	-	5748.50	9229.0	13917.0	12038.50	3939.0	1510.0	46082.0	9566.75
BROUGHT FORWARD			-	-	9674.50	19824.0	26635.75	22923.50	7257.0	6827.50	89636.25	32589.25
RUNNING TOTAL			-	-	15423.0	29053.0	40552.75	34962.0	11196.0	8337.50	135718.25	42156.0

WATER USAGE FOR <small>CMKAU</small> IRRIGATION SCHEME 19 83 / 84 SEASON													
L/ N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
91	Void	-											
92	Vincent Jockey Club	1452	-	-	-	792.0	415.50	1008.0	-	-	2215.50	763.50	
93	Waldron EL & VG	An.Chge. 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
94	Wilson <del>W</del> NC	1415.25	-	-	999.0	108.0	756.0	864.0	-	420.0	3147.0	1731.75	
95	White Bros.	4537.50	-	-	114.0	3057.0	1793.50	2037.0	465.0	-	7466.50	2929.0	
96	White DJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	
97	White G & C	5082	-	-	-	1683.0	979.0	648.0	432.0	354.0	4096.0	-	
98	Huddleston IW	6667	-	-	256.0	1093.0	1438.0	1374.0	-	624.0	4785.0	-	
99	Morgan RJ	2541	-	-	-	1008.0	618.0	676.0	334.0	-	2636.0	95.0	
100	Willson SR	5566	-	-	1690.0	1029.0	2758.50	2361.0	1188.0	2301.0	11327.50	5761.50	
101	Willson EW	6377.50	-	-	909.0	1605.0	2639.0	1930.50	-	1001.0	8084.50	1707.0	
102	McLaren IS		-	-	-	-	-	-	-	-	-	-	
103	Duncan EL Trust	847	-	-	-	-	-	-	-	-	-	-	
104	Nolan EJ Trust	968	-	-	475.0	118.0	1293.0	364.0	250.0	288.0	2788.0	1820.0	
105	Void	-											
TOTAL THIS SHEET			-	-	4443.0	10493.0	12636.50	11262.50	2669.0	4988.0	46546.0	14807.75	
BROUGHT FORWARD			-	-	15423.0	29053.0	40552.75	34962.0	11196.0	8337.50	135718.25	42156.0	
RUNNING TOTAL			-	-	19866.0	39546.0	53189.25	46224.50	13865.0	13325.50	182264.25	56963.75	



WATER USAGE FOR OAKU IRRIGATION SCHEME 19 82 / 83 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept.	oct	nov	dec	jan	feb	mar			april
1	Void	-										
2	Stafford TE & DJ 3/4" dia.pipe	2371.50	-	648.0	1514.0	952.0	1229.50	1742.0	1214.0	280.0	7579.50	5208.0
3	Airey RD & FM	3993	-	-	556.0	304.0	-	229.0	144.0	-	1233.0	-
4	Williamson MB	1815.25	-	93.0	745.0	28.50	-	784.0	288.0	-	1938.50	123.25
5	Anderton M 3/4" dia.pipe		-	-	-	-	-	-	-	-	-	-
6	McKnight CG & White RC	484	-	-	-	-	-	-	-	-	-	-
7	Hare RR Est. An.Chge.		-	-	-	-	-	-	-	-	-	-
8	Armstrong Bros.	7066.25	-	-	-	2763.50	-	2356.0	864.50	-	5984.0	-
9	Avonrath Partnership	1936	-	82.0	660.0	480.0	-	-	470.50	-	1269.50	-
10	Brown TM & CM	1694	-	-	-	394.50	-	-	290.0	-	684.50	-
11	Barker WR & L	72.50	-	-	-	-	-	-	-	-	-	-
12	Becks Community Centre 1/2" dia.pipe		-	-	-	-	-	-	-	-	-	-
13	Bell OW 2 @ 3/4" dia.pipe		-	-	-	-	-	-	-	-	-	-
14	Void	-										
15	Berry EJ	3351.75	-	608.0	336.0	139.0	-	792.0	334.50	-	2209.50	-
16	Brown IR An.Chge.		-	-	-	-	-	-	-	-	-	-
17	Void	-										
18	Nolan EJ & JG	399	-	526.0	336.0	482.0	342.0	269.50	184.0	192.0	1932.50	1932.50
19	Clouston IL	1936	-	792.0	748.0	-	-	94.0	394.0	-	2028.0	92.0
20	Clouston IA	605	-	804.0	838.0	384.0	-	592.0	484.0	-	3102.0	2497.0
21	Clouston SD	1972.25	-	1107.0	504.0	-	-	57.0	435.0	-	2103.0	130.75
22	Clouston WJ	1210	-	-	-	-	-	-	-	-	-	-
23	Corrigan AJ	1185.75	-	-	-	-	-	-	-	-	-	-
24	Corrigan JE & Son	2395.75	-	-	620.0	896.50	219.50	911.0	42.0	714.50	3403.50	1007.75
25	McNara MW	2420	-	-	145.50	166.0	625.0	666.0	72.0	-	1674.50	-
26	Davies EM 3/4" dia.pipe		-	-	-	-	-	-	-	-	-	-
27	Void	-										
28	Devonshire Mining Company Surplus water in winter		-	-	-	-	-	-	-	-	-	-
29	Donnelly EF	1633.50	-	84.0	393.0	-	128.0	646.0	72.0	71.0	1394.0	-
30	Hackler MJ	4537.50	-	142.50	1905.0	39.0	-	2022.0	1824.0	-	5932.50	1395.0
TOTAL THIS SHEET			-	4810.50	9300.50	7029.0	2544.0	11160.50	6589.50	1257.50	42468.50	12386.25
BROUGHT FORWARD			-	-	-	-	-	-	-	-	-	-
RUNNING TOTAL			-	4810.50	9300.50	7029.0	2544.0	11160.50	6589.50	1257.50	42468.50	12386.25

WATER USAGE FOR <small>CMKAU</small> IRRIGATION SCHEME 19 <sub>82</sub> / <sub>83</sub> SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept.	oct.	nov.	dec.	jan.	feb.	mar.			april
31	Void	-										
32	Void	-										
33	Drake RH & IJ	72.50 3/4" dia. pipe	-	-	-	-	-	-	-	-	-	-
34	Duncan DL	2057	-	-	771.0	556.0	-	907.50	301.50	31.50	2567.50	510.50
35	Void	-										
36	Stafford DE	387.50	-	-	-	-	-	22.0	-	-	22.0	-
37	Glassford AG & Son	1210	-	792.0	1298.0	600.0	-	1224.0	623.0	-	4537.0	3327.0
38	Glassford CD & SR	968	-	180.0	-	235.0	-	512.0	253.0	-	1180.0	212.0
39	Tucker GF	968	-	-	-	-	646.0	-	-	-	646.0	-
40	Lauder Lodge Farm Ltd.	1485.25	-	-	384.0	-	-	1200.0	230.50	-	1814.50	329.25
41	Hamilton GS	302.50	-	-	-	-	-	-	-	-	-	-
42	Lillybank Farm Ltd	2202.25	-	-	96.0	624.0	90.0	455.0	293.0	-	1558.0	-
43	Hamilton NM	1815	-	324.0	551.0	280.50	282.0	1237.50	446.0	-	3121.0	1306.0
44	Harcley EJP	2662	-	192.0	908.0	-	-	-	-	-	1100.0	-
45	Harcley SE	605	-	-	-	-	-	-	-	-	-	-
46	McIntosh WS	6086.0	-	1092.0	204.0	399.0	-	2476.50	1028.50	-	5200.0	-
47	Hore RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
48	Huddleston C & Sons	9196	-	1200.0	-	-	-	431.0	796.0	-	2427.0	-
49	Huddleston WC & Sons	3569.50	-	1113.0	480.0	1350.0	-	1968.0	1512.0	-	6423.0	2853.50
50	Huddleston WC & Sons	1694	-	-	-	-	-	-	-	-	-	-
51	Kane A & Son	2541 1" dia. pipe	-	-	-	676.50	160.0	-	-	-	836.50	-
52	Kane Kevin Ltd	726	-	-	624.0	363.50	-	1129.0	261.0	-	2377.50	-
53	Huddleston PT	-	-	756.0	572.0	476.0	437.0	805.0	837.25	82.0	3965.25	-
54	Kirney PJ	3327.50	-	432.0	2048.0	1733.75	487.50	1703.0	1177.0	674.0	8255.25	4927.75
55	Rutter L & A	1936	-	50.0	720.0	447.0	103.0	104.0	926.0	248.0	2598.0	662.0
56	Leask RJ	2057	-	-	-	-	-	-	-	-	-	-
57	Leith EF	1815	-	-	44.0	-	-	-	161.0	-	205.0	-
58	Void	-										
59	Harcx-Green-Kedbell	2238.50	-	164.50	132.0	635.50	-	742.0	255.50	-	1947.50	-
60	McIntosh JM Est.	3932.50	-	1205.50	1517.0	1712.75	950.50	600.0	599.0	624.0	7208.75	3276.25
TOTAL THIS SHEET BROUGHT FORWARD			-	7501.0	10349.0	10107.50	3156.0	15516.50	9700.25	1659.50	57989.75	17404.25
RUNNING TOTAL			-	4810.50	9300.50	7029.0	2544.0	11160.50	6589.50	1257.50	42468.50	12386.25
			-	12311.50	19649.50	17136.50	5700.0	26677.0	16289.75	1917.0	100458.25	29790.50

WATER USAGE FOR <small>ONEKAU</small> IRRIGATION SCHEME 19 82 / 83 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
61	McKnight CG	254	-	-	-	264.0	-	336.0	-	-	600.0	346.0
62	McKnight SG	An.Chge.	-	-	-	-	-	-	-	-	-	-
63	Maclean DE	3424.25	-	707.25	1362.0	720.0	714.0	1227.0	464.0	595.0	5789.25	2365.0
64	Mee MH	3025	-	-	-	258.0	-	320.0	391.0	-	969.0	-
65	Mee J Est	An.Chge	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	163.0	-	-	48.0	-	-	211.0	-
67	Milne RL	1996.50	-	-	1224.0	-	120.0	-	72.0	-	1416.0	-
68	Moran JF	2916	-	-	658.50	748.0	186.50	621.0	504.0	216.0	2934.0	18.0
69	Morgan JEF	4356	-	-	771.0	520.0	-	477.0	381.0	-	2149.0	-
70	Naylor EB & EB	3013	-	-	-	802.0	-	928.0	446.0	-	2176.0	-
71	Naylor G Est.	3146	-	576.0	999.0	780.0	156.0	636.0	433.50	-	3880.50	734.50
72	Void	-	-	-	-	-	-	-	-	-	-	-
73	Void	-	-	-	-	-	-	-	-	-	-	-
74	CO Implemant Exchange	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
75	Onekau Domain Board	24.25	-	-	-	-	-	-	-	-	-	-
76	Void	-	-	-	-	-	-	-	-	-	-	-
77	Paterson BJ	4598	-	1510.0	4165.0	2653.0	144.0	2220.0	1127.50	126.0	11945.50	7347.50
78	Paterson M	3630	-	-	-	-	-	186.0	838.0	-	1024.0	-
79	Void	-	-	-	-	-	-	-	-	-	-	-
80	Heckler MJ	2783	-	849.0	432.0	2223.0	-	894.0	600.0	-	4998.0	2215.0
81	Tucker CF	6352.50	-	-	1044.0	803.0	646.0	1422.0	1248.0	192.0	5355.0	-
82	Void	-	-	-	-	-	-	-	-	-	-	-
83	Shaw LG	1210	-	-	-	-	-	-	-	-	-	-
84	Void	-	-	-	-	-	-	-	-	-	-	-
85	Void	-	-	-	-	-	-	-	-	-	-	-
86	Stafford EG & MM	5203	-	2083.0	2504.50	708.0	712.0	2283.0	974.0	756.0	10020.50	4817.50
87	Void	-	-	-	-	-	-	-	-	-	-	-
88	Void	-	-	-	-	-	-	-	-	-	-	-
89	Backer WR	60.25	-	-	-	-	-	-	-	-	-	-
90	Thurlow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET BROUGHT FORWARD			-	5725.25	13323.0	10479.0	2978.50	11598.0	7479.0	1885.0	53256.75	17843.50
RUNNING TOTAL			-	12311.50	19649.50	17136.50	5700.0	26677.0	16289.75	1917.0	100458.25	29790.50
			-	18036.75	32992.50	27615.50	8678.50	38275.0	23768.75	3792.0	153715.0	47634.0

WATER USAGE FOR <small>QAYU</small> IRRIGATION SCHEME 19 82 / 83 SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
91	Void	-										
92	Vincent Jockey Club	1452	-	-	-	1392.50	648.0	-	-	-	2040.50	588.50
93	Waldron H. & VG	An.Chge. 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
94	Wilson WC	1415.25	-	504.0	711.0	996.0	-	1080.0	-	-	3291.0	1875.75
95	White Bros.	4537.50	-	1968.0	1768.0	768.0	678.0	2229.0	1329.0	627.50	9367.50	4830.0
96	White DJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
97	White G & C	5082	-	579.0	1143.0	1125.0	81.0	1293.0	495.0	-	4716.0	-
98	Williamson JL & KJ	6667	-	-	1364.0	1466.0	-	646.0	288.0	-	3764.0	-
99	Morgan RJ	2541	-	-	1167.0	561.0	-	528.0	190.0	-	2446.0	-
100	Wilson SR	5566	-	1995.0	1944.0	769.50	-	3426.0	1761.0	561.0	10456.50	4890.50
101	Wilson EW	6377.50	-	360.0	1993.0	1852.50	843.0	3069.50	726.0	640.50	9484.50	3107.0
102	McLaren IS											
103	Duncan LL Trust	847	-	-	336.0	-	-	-	-	-	336.0	-
104	Nolan EJ Trust	968	-	-	-	-	-	-	-	-	-	-
105	McIntosh WS & VE	1452	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET			-	5406.0	10426.0	8930.50	2250.0	12271.50	4789.0	1829.0	45902.0	15291.75
BROUGHT FORWARD			-	18036.75	32992.50	27615.50	8678.50	38275.0	23768.75	3792.0	153715.0	47634.0
RUNNING TOTAL			-	23442.75	43418.50	36546.0	10928.50	50546.50	28557.75	5621.0	199617.0	62925.75

WATER USAGE FOR OMAKA IRRIGATION SCHEME 19 81 / 82 SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
1		-										
2	Stafford TE & DJ	2371.50	-	1009.0	1741.0	623.75	505.0	384.0	551.0	1041.0	5854.75	3483.25
3	Airey RD & EM	3993	-	-	848.0	1008.0	888.0	353.0	96.0	186.75	3380.75	-
4	Williamson MB	1815.25	-	384.0	940.0	1393.50	1094.0	508.0	96.0	288.0	4703.50	2888.25
5	Void	-										
6	McKnight CG & GR & White FC	484	-	-	-	-	-	-	-	-	-	-
7	Hare RR Est	An.Chge.	-	-	-	-	-	-	-	-	-	-
8	Armstrong Bros.	7066	-	2112.0	3611.0	3084.50	2543.0	2150.0	1020.0	200.50	14721.0	7654.75
9	Avonrath Partnership	1936	-	480.0	1017.50	600.0	420.0	175.0	-	-	2692.50	756.50
10	Brown JM & CM	1694	-	-	26.0	654.0	329.50	409.0	641.50	115.50	2175.50	481.50
11	Barker WR & L	72.50	-	458.50	6.75	6.0	13.5	12.0	-	-	496.75	424.25
12	Becks Community Centre	dia.pipe	-	-	-	-	-	-	-	-	-	-
13	Void	-										
14	Void	-										
15	Berry EJ	3351.75	-	1068.0	1672.0	-	154.0	516.0	252.0	288.0	3950.0	598.25
16	Brown RA & A	An.Chge.	-	-	-	-	-	-	-	-	-	-
17	Void	-										
18	Nolan EJ & JG	399	-	478.0	-	242.0	84.0	10.0	288.0	192.0	1294.0	895.0
19	Clouston IL	1936	-	716.0	-	798.0	852.0	23.0	96.0	144.0	2629.0	693.0
20	Clouston IA	605	-	-	386.0	812.0	-	335.0	12.0	504.0	2049.0	1444.0
21	Clouston SD	1972.25	-	1395.0	1755.50	1146.0	640.0	1155.0	148.0	177.0	6316.50	4344.25
22	Clouston WJ	1210 & An.Chge.	-	-	14.0	424.50	447.0	313.50	528.0	382.0	2109.0	899.0
23	Conrigall IJ	1185.75	-	-	-	-	-	-	-	-	-	-
24	Conrigall JE & Son	1210	-	1253.25	962.0	971.50	967	757.50	144.0	746.0	5801.25	3405.50
25	McNamara MW	2420	-	344.0	205.50	755.0	499.50	515.0	96.0	409.50	2824.50	404.50
26	Void	-										
27	Void	-										
28	Devonshire Mining Co.	Surplus	-	-	-	-	-	-	-	-	-	-
29	Dannally EF	1633.50	-	216.0	720.0	476.0	432.0	295.25	300.0	180.0	2619.25	985.75
30	Dannally FJ	4537.50	-	583.75	2881.75	1632.0	1851.0	971.50	181.0	242.0	8443.0	3905.50
TOTAL THIS SHEET BROUGHT FORWARD			-	10497.50	16788.0	14626.75	11719.50	8882.75	4449.50	5096.25	72060.25	33263.25
RUNNING TOTAL			-	10497.50	16788.0	14626.75	11719.50	8882.75	4449.50	5096.25	72060.25	33263.25

WATER USAGE FOR <small>CHAKU</small> IRRIGATION SCHEME 19 <sup>81</sup> / <sub>82</sub> SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
31	Void	-										
32	Void	-										
33	Drake RH & LJ	72.50 dia. pipe	-	-	-	120.0	36.0	35.50	36.0	12.0	239.50	-
34	Duncan DL	2057	-	568.0	240.0	1224.0	622.0	761.0	939.0	348.0	4702.0	2645.0
35	Garry AM	dia.pipe	-	-	-	-	-	-	-	-	-	-
36	Stafford DE	387.50	-	-	-	-	35.50	-	58.0	-	58.0	-
37	Glassford AG & Son	1210	-	948.0	1696.0	1846.0	609.0	470.50	618.0	576.0	6763.50	5553.50
38	Glassford OD	968	-	504.0	893.0	1255.0	938.0	471.0	650.0	106.0	4817.0	3849.0
39	Tucker CF	968	-	-	176.0	86.0	-	-	-	-	262.0	-
40	Hamilton DW	1485.25	-	95.0	1108.0	1322.50	429.0	589.0	1164.0	565.0	5272.50	3786.25
41	Hamilton GS	302.50	-	-	-	-	135.0	336.0	205.50	160.50	837.0	534.50
42	Hamilton John	2202.25	-	191.0	1081.0	1359.0	1149.0	754.0	-	-	4534.0	2331.75
43	Hamilton Neil	1815	-	648.0	1219.50	1053.50	871.50	1132.0	744.0	34.0	5702.50	3887.50
44	Harley EJP	4114	-	1193.0	1710.0	1768.75	1925.50	500.50	539.0	240.0	7876.75	3762.75
45	Harley SEJW	605	-	-	-	98.50	114.50	336.0	372.0	172.0	1093.0	488.0
46	McIntosh WS	3182.50	-	792.0	1830.0	1851.0	711.0	348.0	144.0	216.0	5892.0	2709.50
47	Hore RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
48	Huddleston C & Sons	9196	-	2322.0	2180.0	2346.0	2303.50	1965.50	394.0	1348.0	12859.50	3663.50
49	Huddleston WC & Son	1875.50	-	-	639.0	1080.0	624.0	1023.0	519.0	792.0	4677.0	4331.50
50	Huddleston WC & Son	1694	-	864.0	1764.0	-	596.0	-	-	-	3224.0	-
51	Kane A & Son	dia.pipe	-	-	-	-	-	-	-	-	-	-
52	Kane Kevin Ltd	3267	-	264.0	1235.0	1488.0	1392.50	960.0	744.0	464.0	6547.50	3280.50
53	Void	-										
54	Kinney RJ	3327.50	-	991.75	1908.0	1581.75	1550.0	887.25	144.0	1456.0	8518.75	5191.25
55	Leask RJ	2178	-	408.0	375.50	416.0	568.0	490.0	144.0	330.0	2731.50	553.50
56	Leask RAO	1815	-	237.0	1104.0	496.0	228.0	-	-	-	2065.0	250.0
		dia.pipe										
57	Leith FF	1815	-	-	-	452.50	385.0	410.0	252.0	576.0	2075.50	260.50
58	McAuslan	dia.pipe	-	-	-	-	-	-	-	-	-	-
59	McCormochie WD	2238.50	-	885.50	128.50	587.0	1038.50	894.0	744.0	176.0	4453.0	2214.50
60	McIntosh JM Est.	3932.50	-	1497.0	1827.0	1751.50	1852.0	1018.75	216.0	1630.0	9792.25	5859.75
TOTAL THIS SHEET			-	22905.25	37902.50	22183.0	29833.0	22264.75	13076.0	14297.75	177054.0	88416.0
BROUGHT FORWARD			-	10497.50	16788.0	14626.75	11719.50	8882.75	4449.50	5096.25	72060.25	33263.25
RUNNING TOTAL			-	33402.75	54690.50	36809.75	41552.50	31147.50	17525.50	19394.0	249114.25	121679.25

WATER USAGE FOR <small>ORAKAU</small> IRRIGATION SCHEME 19 81 / 82 SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
61	McKnight CG	254	-	594.0	877.0	1127.0	688.0	654.0	192.0	168.0	4300.0	4046.0
62	McKnight SG	An.Chge.	-	-	-	-	-	-	-	-	-	-
63	MacLean DE	3424.25	-	1524.0	1146.75	2101.25	1329.50	1122.50	192.0	896.0	8312.0	4887.75
64	Mee MH	3025	-	-	929.0	1074.50	1296.0	972.0	1116.0	481.50	5869.0	2844.0
65	Mee WH	An.Chge.	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	-	-	-	-	-	-	-	-
67	Milne RL	1996.50	-	579.0	1140.0	1939.0	970.0	628.0	348.0	614.0	6218.0	3616.50
68	Moran JT	2916 & An.Chge.	-	433.0	854.50	833.0	1073.0	382.0	84.0	624.50	4284.0	1368.0
69	Moran JEF	4356 & S & D dia.pipe	-	864.0	164.0	1231.0	688.0	818.0	252.0	96.0	4113.0	-
70	Naylor EB & DB	3013	-	1074.0	1032.0	1488.0	1253.0	1008.0	1116.0	51.0	7022.0	4009.0
71	Naylor G Est.	3146	-	912.0	966.0	930.0	1081.0	376.0	730.0	252.0	5247.0	2101.0
72	Void	-	-	-	-	-	-	-	-	-	-	-
73	Void	-	-	-	-	-	-	-	-	-	-	-
74	Void	-	-	-	-	-	-	-	-	-	-	-
75	Orakau Domain Board	24.25 dia.pipe	-	-	-	-	-	-	-	-	-	-
76		-	-	-	-	-	-	-	-	-	-	-
77	Paterson EJ	4598	-	2430.0	4356.0	4729.50	4335.50	2061.0	346.0	582.0	18840.0	14242.0
78	Matak. Station Ltd (Paterson JS) Est.	3630	-	309.75	404.50	1162.0	767.0	442.0	492.0	1152.0	5129.0	1499.25
79	Void	-	-	-	-	-	-	-	-	-	-	-
80	Hockler HJ	2783	-	452.0	1746.50	985.50	1600.0	781.0	709.0	20.0	6294.0	3511.0
81	Scorgie PRO	6352.50	-	676.60	2229.50	1781.0	1679.50	1057.0	216.0	1299.0	8938.50	2586.0
82	Void	-	-	-	-	-	-	-	-	-	-	-
83	Shaw LG	1210	-	-	-	-	-	-	-	-	-	-
84	Void	-	-	-	-	-	-	-	-	-	-	-
85	Void	-	-	-	-	-	-	-	-	-	-	-
86	Stafford WA/ Stafford EG	5203	-	2814.0	1610.0	1941.75	2248.0	1314.0	850/531	1404.0	12137.25	-
87	Void	-	-	-	-	-	-	-	-	-	-	-
88	Void	-	-	-	-	-	-	-	-	-	-	-
89	Barker NR	60.50	-	-	-	-	-	-	24.0	-	24.0	-
90	Thurlow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET			-	35567.50	55358.25	43506.50	48841.50	33880.25	20274.0	21937.75	273781.75	133126.50
BROUGHT FORWARD			-	33402.75	54690.50	36809.75	41552.0	31147.50	17525.50	19394.0	249114.25	121679.25
RUNNING TOTAL			-	68970.25	110048.75	80316.25	90393.50	65027.75	37799.50	41331.75	522896.0	254805.75

WATER USAGE FOR OMAKAU IRRIGATION SCHEME 1981 / 82 SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
91	Void	-										
92	Vincent Jockey Club	1452	-	-	903.0	1965.0	528.0	-	-	-	3369.0	1944.0
93	Waldron PL & VG	dia.pipe An.Chge.	-	-	-	-	-	-	-	-	-	-
94	Void	-										
95	White Bros.	4537.50	-	1065.0	2412.0	2265.25	1173.0	1332.0	192.0	1104.0	9543.75	5006.25
96	White DJ	-	-	-	-	-	-	-	-	-	-	-
97	White C	4973	-	1445.0	1835.0	1419.0	2887.0	526.50	336.0	384.0	7834.50	2861.50
98	Williamson JL & KJ	6667	-	1248.0	1692.75	1233.0	1352.0	1099.0	144.0	42.0	6810.75	143.75
99	Morgan RJ	2541	-	876.0	852.0	1512.0	1125.0	273.0	192.0	312.0	5142.0	2601.0
100	Wilson SR	5566	-	3357.0	2224.0	971.0	717.50	2078.0	384.0	3321.0	13056.0	7490.0
101	Wilson WC & BW	7792.75	-	2787.0	4207.25	3561.0	2965.75	2154.0	903.0	1830.0	18408.50	10615.75
102	McLaren IS	An.Chge.	-	-	-	-	-	-	-	-	-	-
103	Duncan DL Trust	847	-	480.0	632.0	267.50	596.0	252.0	-	-	2228.0	1381.0
104	Nolan EJ Trust	968	-	274.0	328.0	432.0	294.0	-	-	-	1328.0	360.0
TOTAL THIS SHEET BROUGHT FORWARD			-	47099.50	70444.25	57132.25	60479.75	41594.75	22425.0	28930.75	341502.25	165529.75
RUNNING TOTAL			-	68970.25	110048.75	80316.25	90393.50	65027.75	37799.50	41331.75	522896.0	254805.75
			-	116069.75	180493.0	137448.50	150873.25	106622.50	60224.50	70262.50	864398.25	420335.50



WATER USAGE FOR <small>CPKAU</small> IRRIGATION SCHEME 19 80 / 81 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
1	Alexandra AJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
2	Stafford TE & DJ	2371.50 3/4" dia.pipe	-	480.0	1539.50	1855.0	1338.50	330.50	571.50	-	6115.0	3743.50	
3	Airey RD & IM	3993	-	89.50	126.50	725.25	648.50	467.25	105.75	-	2162.75	-	
4	Williamson MB	1815.25	-	-	312.50	714.50	866.75	859.75	104.50	-	2858.0	1042.75	
5	Anderton M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
6	McKnight CG & EJ & White FC	484	-	-	-	-	-	-	-	-	-	-	
7	Armitage W & DW	An.Chge.	-	-	-	-	-	-	-	-	-	-	
8	Armstrong Bros.	7066.25	-	-	2302.0	881.0	2976.0	2295.0	1418.50	-	9872.50	2806.25	
9	Avonrath Partnership	1936	-	384.0	284.0	714.0	-	716.0	-	-	2098.0	162.0	
10	Ball IB	1694	-	172.50	-	373.50	1016.0	380.0	271.0	-	2213.0	519.0	
11	Barker WR & L	72.50	-	13.50	-	24.0	12.50	12.0	-	-	62.0	-	
12	Becks Community Centre	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	
13	Bell CW	2 @ 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
14	Bell FH	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
15	Berry EJ	3351.75	-	-	360.0	1149.0	857.0	434.0	72.0	-	2872.0	-	
16	Brown RA & A	An.Chge.	-	-	-	-	-	-	-	-	-	-	
17	Hawdon Rest Dest. Board	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
18	Nolan EJ & JG	399	-	103.0	-	148.50	118.0	144.50	-	-	514.0	115.0	
19	Clouston IL	1936	-	-	84.0	1098.0	-	1275.0	-	-	2457.0	521.0	
20	Clouston JA	605	-	-	590.0	418.0	1682.0	320.0	-	-	3010.0	2405.0	
21	Clouston SD	1972.25	-	504.0	432.0	612.50	995.75	1922.0	323.0	-	4789.25	2817.0	
22	Clouston WJ	1210	-	-	-	47.50	290.0	288.0	-	-	625.50	-	
23	Conrigall AJ	1185.75	-	-	-	-	-	-	-	-	-	-	
24	Conrigall JE & Son	2395.75	-	570.50	569.0	1169.50	1407.50	1462.0	167.0	171.0	5516.50	3120.75	
25	Gillespie AJ	2420	-	358.0	507.75	864.0	1386.0	1344.0	320.0	-	4779.75	2359.75	
26	Davies EM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
27	Denton L	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
28	Devonshire Mining Company	Surplus water in winter	-	-	-	-	-	-	-	-	-	-	
29	Donnelly EF	1633.50	-	270.0	295.0	240.0	603.0	96.0	-	-	1504.0	-	
30	Donnelly FJ	4357.50	-	2513.50	954.50	1340.50	1762.50	2096.75	-	-	8667.75	4130.25	
TOTAL THIS SHEET BROUGHT FORWARD			-	5758.50	8356.75	12374.75	15960.0	14442.75	3353.25	171.0	60117.0	23742.25	
RUNNING TOTAL			-	5758.50	8356.75	12374.75	15960.0	14442.75	3353.25	171.0	60117.0	23742.25	

WATER USAGE FOR OMAKAU												IRRIGATION SCHEME 19 80 / 81 SEASON	
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
31	Donnelly H	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
32	Drake M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
33	Drake RH & LJ	72.50 & 3/4" dia.pipe	-	-	-	59.50	45.0	36.0	-	-	-	140.50	68.0
34	Duncan LL	2057	-	15.0	561.0	789.0	598.0	210.0	300.0	-	-	2473.0	416.0
35	Garry AM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
36	Stafford DE	387.50	-	-	-	-	-	35.25	-	-	-	35.25	-
37	Glassford AG & Son	1210	-	672.0	368.0	984.0	768.0	864.0	1293.0	-	-	4949.0	3739.0
38	Glassford CO	968	-	420.50	-	-	990.0	1119.0	-	-	-	2529.50	1561.50
39	Tucker CF	968	-	-	-	-	-	-	-	-	-	-	-
40	Lauder Lodge Farm Ltd	1485.25	-	216.0	-	747.50	1334.0	811.0	901.50	-	-	4010.0	2524.75
41	Hamilton GS	302.50	-	-	-	-	-	-	-	-	-	-	-
42	Lillybank Farm Ltd	2202.25	-	-	1034.0	317.0	1195.50	889.50	652.50	-	-	4088.50	1886.25
43	Hamilton NM	1815	-	360.0	1455.0	1018.0	1116.0	922.50	335.50	-	-	5207.0	3392.0
44	Harley EJP	4114	-	974.0	401.0	2197.0	2015.50	1192.0	489.0	-	-	7268.50	3154.50
45	Harley SE	605	-	-	-	22.0	-	234.0	60.0	-	-	316.0	-
46	McIntosh WS	3182.50	-	963.0	360.0	1131.0	1892.0	642.0	339.0	-	-	5327.0	2144.50
47	Hare RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-	-
48	Hiddleston C & Sons	9196	-	717.0	1384.0	1902.50	2522.0	3203.0	468.0	-	-	10196.50	1000.50
49	Hiddleston WC & Sons)	3569.50	-	1569.0	-	2174.0	1268.0	538.50	673.0	-	-	6222.50	)
50	Hiddleston WC & Sons)	-	-	-	-	-	-	-	-	-	-	181.50	)2834.50
51	Kane A & Son	2541 1" Pipe)	-	-	597.0	1024.0	1406.0	1625.0	578.50	-	-	5230.50	1963.50
52	Kane Kevin Ltd	726	-	-	-	-	-	-	-	-	-	-	-
53	Kilkelly JV	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
54	Kinney RJ	3327.50	-	-	2119.0	1908.0	1790.50	1600.50	683.25	576.0	-	8677.25	5349.75
55	Leask Bros.	2178	-	436.0	536.0	-	624.0	528.0	175.0	-	-	2299.0	121.0
56	Leask W	1815	-	-	124.0	1368.0	624.0	528.0	216.0	-	-	2860.0	1045.0
57	Leith EF	1815	-	-	-	-	234.0	96.0	-	-	-	330.0	-
58	McAuslan SS	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
59	McConnochie WD	2238.50	-	-	318.0	432.0	1116.0	924.50	359.0	-	-	3149.50	911.0
60	McIntosh JM Est.	3932.50	-	1104.0	2036.50	2088.0	2137.50	1918.50	1176.0	480.0	-	10940.50	7008.0
TOTAL THIS SHEET BROUGHT FORWARD			-	7446.50	11293.50	18161.50	21676.0	17917.25	8699.25	1056.0	-	81931.50	39119.75
RUNNING TOTAL			-	5758.50	8356.75	12374.75	15960.0	14442.75	3353.25	171.0	-	60117.0	23742.25
			-	13205.0	19650.25	30536.25	37636.0	32360.0	12052.50	1227.0	-	142048.50	62862.0

WATER USAGE FOR ORAKAU IRRIGATION SCHEME 1980 / 81 SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
61	McKnight CG	254	-	140.0	908.0	932.0	1072.0	1327.0	215.0	-	4594.0	4340.0
62	McKnight SG	An.Chge.	-	-	-	-	-	-	-	-	-	-
63	MacLean DE	3424.25	-	1184.50	1084.50	1852.75	2017.0	1712.0	355.0	-	7205.75	4781.50
64	Mee MH	3025	-	235.0	120.0	466.50	852.0	1008.0	502.50	-	3184.0	159.0
65	Mee J Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	-	-	-	-	-	-	-	-
67	Milne RL	1996.50	-	-	561.50	970.50	946.50	593.0	453.0	-	3524.50	923.0
68	Moran JT	2916	-	75.0	496.0	680.25	608.0	894.25	315.75	-	3069.25	153.25
69	Morgan JEF	4356	-	185.0	564.0	1070.50	680.0	476.0	224.0	-	3199.50	-
70	Naylor EB & DB	3013	-	388.0	386.0	603.0	1260.0	1008.0	324.0	-	3969.0	956.0
71	Naylor G Est.	3146	-	633.0	430.0	660.0	917.0	1273.0	-	-	3913.0	767.0
72	Orakau Bowling Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
73	Orakau Conc.Products Ltd.	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
74	Orakau Contracting Co.	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
75	Orakau Domain Board	24.25 & 1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
76	Orakau Golf Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
77	Paterson BJ	4598	-	1194.0	3098.50	3337.25	4334.25	3504.25	501.0	-	15969.25	11371.25
78	Paterson JS	3630	-	-	-	-	1146.0	478.0	384.50	-	2008.50	-
79	Robertson JS	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
80	Hedder MJ	2783	-	-	-	1365.0	570.0	792.0	1218.0	-	3945.0	1162.0
81	Scorgie PRO Est.	6352.50	-	-	1807.0	2487.25	565.75	1439.0	431.0	-	6730.0	377.50
82	Scott EM	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
83	Shaw LG	1210	-	-	-	-	-	-	-	-	-	-
84	Sinclair SW	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
85	Stafford WA	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
86	Stafford WA	5203	-	518.50	3028.0	1658.0	3115.50	2526.25	895.50	-	11741.75	6538.75
87	Stevenson B	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
88	Void	-	-	-	-	-	-	-	-	-	-	-
89	Barker WR	133	-	-	-	-	-	-	-	-	-	-
90	Thurlow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET BROUGHT FORWARD			-	4553.0	12483.50	16083.0	18084.0	17030.75	5819.25	-	74053.50	31529.25
RUNNING TOTAL			-	13205.0	19650.25	30536.25	37636.0	32360.0	12052.50	1227.0	142048.50	62862.0
			-	17758.0	32133.75	46619.25	55720.0	49390.75	17871.75	1227.0	216102.0	94391.25

WATER USAGE FOR OMAKA IRRIGATION SCHEME 19 80 / 81 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
91	Vincent County Council	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
92	Vincent Jockey Club	1452	-	-	-	2388.0	627.0	-	-	-	3015.0	1563.0
93	Waldron FL & VG	An.Chge. 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
94	Webster MR	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
95	White Bros.	4537.50	-	1032.0	2219.50	1695.50	2407.0	1827.0	648.0	-	9829.0	5291.50
96	White DJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
97	White G & C	4973	-	531.0	1698.0	1083.0	1518.0	1998.0	132.0	-	6960.0	1987.0
98	Williamson JL & KJ	6667	-	672.0	1440.0	960.0	1968.0	1283.0	-	-	6323.0	-
99	Morgan RJ	2541	-	162.0	771.0	1149.0	1086.0	627.0	288.0	-	4083.0	1542.0
100	Wilson SR	5566	-	2535.0	2074.50	933.0	2080.0	2080.50	354.0	-	10057.0	4491.0
101	Wilson WC & BW	7792.75	-	1684.0	1410.50	3030.0	3648.75	2048.0	1320.0	-	13141.25	5348.50
102	Brown JD	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
103	Duncan DL Trust	847	-	180.0	297.50	482.50	-	810.0	-	-	1770.0	923.0
104	Nolan EJ Trust	968	-	294.0	132.0	480.0	478.0	376.0	-	-	1760.0	792.0
105	Void											
TOTAL THIS SHEET BROUGHT FORWARD			-	7090.0	10043.0	12201.0	13812.75	11049.50	2742.0	-	56938.25	21938.0
RUNNING TOTAL			-	17758.0	32133.75	46619.25	55720.0	49390.75	17871.75	1227.0	216102.0	94391.25
			-	24848.0	42176.75	58820.25	69532.75	60440.25	20613.75	1227.0	273040.25	116329.25

WATER USAGE FOR OAKAU IRRIGATION SCHEME 19 79 / 80 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
1	Alexandra AJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
2	Stafford TE & DJ	2371.50 3/4" dia.pipe	-	-	705.0	918.0	711.0	802.50	1497.50	-	4634.0	2262.50	
3	Airey RD & FM	3993	-	-	71.0	-	-	263.0	-	-	334.0	-	
4	Williamson MB	1815.25	-	-	127.0	921.75	-	948.0	129.0	-	2125.75	310.50	
5	Anderton M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
6	Armitage IW & EJ	484	-	-	-	432.0	-	186.0	-	-	618.0	134.0	
7	Armitage W & DW	An.Chge.	-	-	-	-	-	-	-	-	-	-	
8	Armstrong Bros.	7066.25	-	-	1056.0	174.0	336.0	4170.0	1152.0	135.0	7023.0	-	
9	Avonrath Partnership	1936	-	-	540.0	-	-	-	336.0	-	876.0	-	
10	Ball LV	1694	-	-	496.50	170.0	-	-	-	-	666.50	-	
11	Banker WR & L	72.50	-	-	23.50	-	-	-	23.0	23.75	70.25	-	
12	Becks Community Centre	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	
13	Bell GW	2 @ 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
14	Bell HH	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
15	Berry EJ	3109.75	-	-	505.50	108.0	-	901.0	1020.0	-	2534.50	-	
16	Brown PA & A	An.Chge.	-	-	-	-	-	-	-	-	-	-	
17	Hawdon Pest Dest. Board	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
18	Nolan EJ & JG	399	-	-	-	-	166.0	-	133.0	-	299.0	-	
19	Clouston JL	1936	-	-	385.0	739.0	-	-	492.0	-	1616.0	-	
20	Clouston JA	605	-	-	-	846.0	644.0	-	-	144.0	1634.0	1029.0	
21	Clouston SD	1972.25	-	-	798.0	792.0	-	-	1220.25	-	2810.25	838.0	
22	Clouston WJ	1210	-	-	-	-	-	-	580.0	-	480.0	-	
23	Conrigall AJ	1185.75	-	-	-	-	-	-	-	-	-	-	
24	Conrigall JE & Son	1210	-	-	794.0	114.0	119.0	1012.50	908.50	125.0	3073.0	1863.0	
25	Gillespie AJ	2420	-	-	388.0	277.0	-	284.0	559.0	-	1508.0	-	
26	Davies EM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
27	Denton L	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
28	Devonshire Mining Company	Surplus water in winter	-	-	-	-	-	-	-	-	-	-	
29	Donnelly EF	1633.50	-	-	144.0	386.0	282.0	-	148.0	-	960.0	-	
30	Donnelly FJ	4537.50	-	-	1065.75	2140.50	558.0	930.0	3100.50	-	7794.75	3257.25	
TOTAL THIS SHEET BROUGHT FORWARD			-	-	7099.25	8018.25	2816.0	9497.0	11198.75	427.75	39057.0	9694.25	
RUNNING TOTAL			-	-	7099.25	8018.25	2816.0	9497.0	11198.75	427.75	39057.0	9694.25	

WATER USAGE FOR <small>CHAKU</small> IRRIGATION SCHEME 19 79 / 80 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
31	Donnelly H	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
32	Drake M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
33	Drake RH & JJ	72.50 3/4" dia.pipe	-	-	-	-	-	36.0	-	-	36.0	-
34	Duncan DL	2057	-	-	666.0	-	-	520.50	-	-	1186.50	-
35	Garry AM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
36	Stafford DE	387.50	-	-	-	-	-	-	-	-	-	-
37	Glassford AG & Son	1210	-	-	1044.0	1048.0	-	-	1248.0	-	3340.0	2130.0
38	Glassford OD	968	-	-	-	480.0	-	-	650.0	-	1130.0	162.0
39	Tucker GF	968	-	-	-	-	-	-	-	-	-	-
40	Lauder Lodge Farm Ltd	1485.25	-	-	-	-	-	216.0	796.0	-	1012.0	-
41	Hamilton GS	302.50	-	-	-	-	-	-	-	-	-	-
42	Lillybank Farm Ltd	2202.25	-	-	-	211.50	-	386.0	-	872.0	1469.50	-
43	Hamilton NM	1815	-	-	192.0	88.0	-	-	576.0	-	856.0	-
44	Harley EJP	4114	-	-	1063.0	180.0	175.0	672.0	1834.50	-	3924.50	-
45	Harley SE	605	-	-	-	178.50	-	108.0	-	-	286.50	-
46	McIntosh WS	3182.50	-	-	783.0	285.0	87.0	2246.0	194.0	-	3595.0	412.50
47	Hore RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
48	Huddleston C & Sons	9196	-	-	383.0	1162.0	153.50	2687.0	2079.50	430.0	6895.0	-
49	Huddleston EJ & WC	1875.50	-	-	291.0	2013.0	-	1218.0	720.0	-	4242.0	2366.50
50	Huddleston E & R	1694	-	-	-	-	-	789.0	651.0	-	1440.0	-
51	Kane A & Son	2541 1" dia. pipe	-	-	-	-	-	-	-	-	-	-
52	Kane Kevin Ltd.	726	-	-	144.0	677.25	12.0	852.0	828.0	456.0	2969.25	-
53	Kilkelly JV	- 1" dia.pipe	-	-	-	-	-	-	-	-	-	-
54	Kinney PJ	3327.50	-	-	1518.0	874.0	248.0	1479.50	2100.0	768.0	6987.50	3660.0
55	Leask Bros.	2178	-	-	488.0	288.0	48.0	-	624.0	-	1448.0	-
56	Leask W	1815	-	-	-	-	-	-	432.0	-	432.0	-
57	Leith EF	1815	-	-	-	-	-	-	-	-	-	-
58	McAuslan SS	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
59	McConnachie WD	2238.50	-	-	108.0	67.50	-	-	-	-	175.50	-
60	McIntosh JM Est.	3932.50 1" dia. pipe	-	-	1428.0	1893.0	-	1930.75	1837.50	504.0	7593.25	3660.75
TOTAL THIS SHEET BROUGHT FORWARD			-	-	8108.0	9445.75	723.50	13140.75	14570.50	3030.0	49018.50	12391.75
RUNNING TOTAL			-	-	7099.25	8018.25	2816.0	9497.0	11198.75	427.75	39057.0	9694.25
			-	-	15207.25	17464.0	3539.50	22637.75	25769.25	3457.75	88075.50	22086.0

WATER USAGE FOR ORAKAU IRRIGATION SCHEME 19 79 / 80 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
61	McKnight CG	254	-	-	-	-	-	-	160.0	-	160.0	-
62	McKnight SG	An.Chge.	-	-	-	-	-	-	-	-	-	-
63	Maclean DE	3424.25	-	-	1590.50	1413.0	1261.0	1241.50	1081.50	935.0	7522.50	4098.25
64	Mee MH	3025	-	-	-	-	-	-	-	408.0	408.0	-
65	Mee J Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	-	-	-	-	-	-	-	-
67	Milne RL	1996.50	-	-	-	-	-	173.50	355.0	-	528.50	-
68	Moran JT	2916	-	-	434.50	303.50	138.0	-	465.0	83.75	1424.75	-
69	Morgan JEF	4356	-	-	709.0	34.0	-	-	1049.50	-	1792.50	-
70	Naylor EB & DB	3013	-	-	144.0	102.0	-	-	856.0	-	1102.0	-
71	Naylor G Est.	3146	-	-	-	264.0	-	108.0	1188.0	-	1560.0	-
72	Orakau Bowling Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
73	Orakau Conc.Products Ltd	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
74	Orakau Contracting Co.	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
75	Orakau Domain Board	24.25 & 1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
76	Orakau Golf Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
77	Paterson BJ	4598	-	-	2953.50	574.50	3175.25	1908.0	2149.0	350.0	11110.25	6512.25
78	Paterson JS	3630	-	-	-	94.0	-	-	-	-	94.0	-
79	Robertson JS		-	-	-	-	-	-	-	-	-	-
80	Hackler MJ	2783	-	-	-	-	-	-	662.0	-	662.0	-
81	Scorgie PRO Est.	6352.50	-	-	1254.0	2014.50	316.25	1155.0	995.0	803.75	6538.50	186.0
82	Scott GM	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
83	Shaw IG	1210	-	-	-	-	-	-	-	-	-	-
84	Sinclair SW	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
85	Stafford WA	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
86	Stafford WA	5203	-	-	2756.0	373.75	850.50	2255.0	2369.25	216.0	8820.50	3617.50
87	Stevenson B	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
88	Stevenson JE	1815	-	-	-	-	-	-	-	-	-	-
89	Barker WR	133	-	-	-	-	-	-	-	-	-	-
90	Thulow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET BROUGHT FORWARD			-	-	9841.50	5173.25	5741.0	6841.0	11330.25	2796.50	41723.50	14414.0
RUNNING TOTAL			-	-	15207.25	17464.0	3539.50	22637.75	25769.25	3457.75	88075.50	22086.0
			-	-	25048.75	22637.25	9280.50	29478.75	37099.50	6254.25	129799.0	36500.0

WATER USAGE FOR <small>OMKOU</small> IRRIGATION SCHEME 1979 / 80 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
91	Vincent County Council	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
92	Vincent Jockey Club	1452	-	-	-	651.0	-	606.0	2136.0	-	3393.0	1941.0
93	Waldron EL & VG	An.Chgs. 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
94	Webster MR	- 1" dia.pipe	-	-	-	-	-	-	-	-	-	-
95	White Bros.	4537.50	-	-	975.0	923.0	558.0	1394.50	3234.0	107.25	7191.75	2654.25
96	White DJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
97	White G & C	4973	-	-	1578.0	1194.0	843.0	297.0	1929.0	-	5841.0	858.0
98	Williamson JL & KJ	6667	-	-	720.0	713.0	865.0	335.0	999.0	-	3632.0	-
99	Morgan RJ	2541	-	-	-	1275.0	-	-	1397.0	-	2672.0	131.0
100	Wilson SR	5566	-	-	3312.75	998.25	955.50	1383.25	914.75	865.50	8429.25	2863.25
101	Wilson WC & BW	7792.75	-	-	2975.0	1719.0	-	1837.50	681.50	-	7213.0	-
102	Brown JD	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
103	Duncan IL Trust	847	-	-	600.0	-	-	232.50	420.0	-	1252.50	405.50
104	Nolan EJ Trust	968	-	-	290.0	-	-	326.0	332.0	-	948.0	-
105	Void	-	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET			-	-	10450.75	7473.25	3221.50	6411.75	12043.25	972.75	29987.75	8863.0
BRUGHT FORWARD			-	-	25048.75	22637.25	9280.50	29478.75	37099.50	6524.25	129799.0	36500.0
RUNNING TOTAL			-	-	35499.50	30110.50	12502.0	35890.50	49142.75	7227.0	159786.75	45363.0



WATER USAGE FOR <small>QAKU</small> IRRIGATION SCHEME 19 78 / 79 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
1	Alexandra AJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
2	Stafford TE & DJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
3	Airey FO & FM	3993	-	-	-	541.50	228.75	838.25	357.0	-	1965.50	-	-
4	Williamson MB	1815.25	-	-	-	623.0	336.50	948.75	399.50	-	2307.75	492.50	-
5	Anderton M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
6	Armitage DW & EJ	484	-	-	-	1437.0	384.0	775.0	720.0	-	3316.0	2832.0	-
7	Armitage W & DW	An.Chge.	-	-	-	-	-	-	-	-	-	-	-
8	Armstrong Bros.	7066.25	-	-	-	1887.50	1728.0	2688.0	1424.0	-	7727.50	661.25	-
9	Avonrath Partnership	1936	-	-	352.50	480.0	120.0	628.50	332.0	-	1913.0	-	-
10	Bell LV	1694	-	-	-	396.0	187.50	808.50	-	-	1392.0	-	-
11	Barker WR & L	72.50	-	-	14.0	11.0	21.0	12.50	-	-	58.50	-	-
12	Becks Community Centre	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
13	Bell GW	2 @ 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
14	Bell RH	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
15	Berry EJ	3109.75	-	-	-	426.0	639.0	840.0	328.0	-	2233.0	-	-
16	Brown RA & A	An.Chge.	-	-	-	-	-	-	-	-	-	-	-
17	Clouston CJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
18	Nolan EJ & JG	399	-	-	-	175.50	290.0	372.0	477.0	-	1314.50	915.50	-
19	Clouston IL	1936	-	-	153.0	622.0	1554.0	1449.0	339.0	-	4117.0	2181.0	-
20	Clouston JA	605	-	-	-	779.0	964.50	539.0	236.0	-	2518.50	1913.50	-
21	Clouston SD	1972.25	-	-	1034.0	334.0	1255.0	867.0	1074.0	-	4564.0	2591.75	-
22	Clouston WJ	1210	-	-	-	72.0	276.0	695.25	-	-	1043.25	-	-
23	Carrigall AJ	1185.75	-	-	-	-	-	-	-	-	-	-	-
24	Carrigall JE & Son	1210	-	-	133.0	1018.50	1182.0	1099.0	96.0	-	3528.50	2395.75	-
25	Berry EJ	2420	-	-	-	-	-	-	-	-	-	-	-
26	Davies EM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
27	Denton L	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
28	Devonshire Mining Company	Surplus water in winter	-	-	-	-	-	-	-	-	-	-	-
29	Donnelly EF	3520.50	-	-	-	501.0	1189.0	428.0	931.0	-	3049.0	-	-
30	Donnelly FJ	4537.50	-	-	-	2344.50	2011.75	1743.0	1483.0	-	7581.25	3043.75	-
TOTAL THIS SHEET BROUGHT FORWARD			-	-	1686.50	11648.50	12367.0	14730.75	8196.50	-	48629.25	17027.0	-
RUNNING TOTAL			-	-	1686.50	11648.50	12367.0	14730.75	8196.50	-	48629.25	17027.0	-

WATER USAGE FOR <small>OMAKU</small> IRRIGATION SCHEME 19 78 / 79 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
31	Donnelly H	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
32	Drake M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
33	Drake RH & LJ	72.50 3/4" dia.pipe	-	-	-	13.0	59.50	34.25	-	-	-	106.75	34.25
34	Duncan IL	2057	-	-	-	660.0	535.50	692.0	-	-	-	1887.50	-
35	Garry AM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
36	Stafford DE	387.50	-	-	-	-	-	-	-	-	-	-	-
37	Glassford AG & Son	1210	-	-	84.0	1152.0	1392.0	1377.0	1156.0	-	-	5161.0	3951.0
38	Glassford CD	968	-	-	-	175.0	1379.0	236.0	48.0	-	-	1838.0	870.0
39	Tucker GF	968	-	-	-	-	-	190.50	-	-	-	190.50	-
40	Lauder Lodge Farm Ltd.	1485.25	-	-	168.0	291.0	216.0	672.0	500.50	-	-	1847.50	362.25
41	Hamilton GS	302.50	-	-	-	-	-	-	-	-	-	-	-
42	Lillybank Farm Ltd	2202.25	-	-	48.0	585.0	810.50	1008.0	725.50	-	-	3177.0	974.75
43	Hamilton NM	1815	-	-	144.0	1136.0	1243.0	1292.0	574.50	-	-	4389.50	2574.50
44	Harley EJP	4114	-	-	532.50	627.50	2448.50	1655.50	-	-	-	5264.0	1150.0
45	Harley SE	605	-	-	-	322.0	156.0	226.0	-	-	-	704.0	99.0
46	McIntosh WS	3182.50	-	-	222.0	1387.0	512.0	1333.0	351.0	-	-	3805.0	622.50
47	Hire RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-	-
48	Hiddleston C & Sons	9196	-	-	-	99.0	5109.50	2415.0	1032.50	-	-	8656.0	-
49	Hiddleston EJ & WC	1875.50	-	-	-	717.0	1099.0	1560.0	-	-	-	3376.0	1500.50
50	Hiddleston E & R	1694	-	-	-	970.50	516.50	-	633.50	-	-	2120.50	426.50
51	Kane A & Son	2541 1" dia. pipe	-	-	-	-	-	-	-	-	-	-	-
52	Kane Kevin Ltd.	726 1" dia. pipe	-	-	48.0	-	1248.0	1029.0	525.0	-	-	2850.0	-
53	Kilkelly JV	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
54	Kirney PJ	3327.50	-	-	1270.0	1607.50	1715.0	1860.0	192.0	-	-	6644.50	3327.50
55	Leask Bros.	2178	-	-	-	159.0	720.0	526.0	168.0	-	-	1573.0	-
56	Leask W	1815	-	-	96.0	-	768.0	768.0	-	-	-	1632.0	-
57	Leith EF	1815	-	-	-	-	60.0	475.0	840.0	-	-	1375.0	-
58	McAuslan SS	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
59	McComachie WD	2238.50	-	-	-	787.50	358.25	792.0	550.25	-	-	2488.0	249.50
60	McIntosh JM Est.	3932.50 1" dia. pipe	-	-	147.0	2137.0	2134.50	1908.0	1440.0	-	-	7766.50	3834.0
TOTAL THIS SHEET			-	-	2759.50	12826.0	22480.75	20049.25	8736.75	-	-	66852.25	19976.25
BROUGHT FORWARD			-	-	1686.50	11648.50	12367.0	14730.75	8196.50	-	-	48629.25	17027.0
RUNNING TOTAL			-	-	4446.0	24474.50	34847.75	34780.0	16933.25	-	-	115481.50	37003.25

WATER USAGE FOR ORAKAU IRRIGATION SCHEME 19 78 / 79 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
61	McKnight CG	254	-	-	72.0	-	164.0	568.0	-	-	804.0	550.0
62	McKnight SG	An.Chge	-	-	-	-	-	-	-	-	-	-
63	MacLean DE	1609.25	-	-	807.0	2821.50	1770.50	1819.0	1472.50	-	8690.50	7081.25
64	Mee MH	3025	-	-	-	-	636.0	1008.0	679.25	-	2323.25	-
65	Mee J Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	-	-	-	-	-	-	-	-
67	Milne RL	1996.50	-	-	-	224.0	935.0	1108.25	412.50	-	2679.75	683.25
68	Moran JT	2916	-	-	185.0	451.50	739.50	803.50	543.75	-	2723.25	-
69	Morgan JEF	4356	-	-	571.0	900.50	492.0	470.0	336.0	-	2769.50	-
70	Naylor EB	3013	-	-	47.0	789.50	1578.0	-	497.25	-	2911.75	-
71	Naylor G Est.	3146	-	-	-	-	1347.50	467.50	564.0	-	2379.0	-
72	Orakau Bowling Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
73	Orakau Conc.Products Ltd	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
74	Orakau Contracting Co	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
75	Orakau Domain Board	24.25 1/2" dia. pipe	-	-	-	-	-	-	-	-	-	-
76	Orakau Golf Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
77	Paterson BJ	4598	-	-	276.50	4425.0	3966.75	3710.75	2621.0	-	15000.0	10402.0
78	Paterson JS	3630	-	-	-	-	440.0	326.0	518.0	-	1284.0	-
79	Robertson JS	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
80	Samuel RA & FJ	2783	-	-	354.0	1160.0	1812.0	1781.0	-	-	5107.0	2324.0
81	Scorgie PRO Est.	6352.50	-	-	-	1214.75	2326.25	1848.50	1228.50	-	6618.0	265.50
82	Scott EM	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
83	Shaw IG	1210	-	-	-	-	-	-	-	-	-	-
84	Sinclair SW	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
85	Stafford E	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
86	Stafford WA	5203 1" dia. pipe	-	-	444.0	1353.25	1901.50	2225.0	1140.0	-	7063.75	1860.75
87	Stevenson B	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
88	Stevenson JE	1815	-	-	195.0	-	-	-	-	-	195.0	-
89	Thompson LL	2553	-	-	-	823.0	1072.75	980.0	45.50	-	2921.25	368.25
90	Thulow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET BROUGHT FORWARD			-	-	2951.50	14163.0	19181.75	17115.50	10058.25	-	63470.0	23535.0
RUNNING TOTAL			-	-	4446.0	24474.50	34847.75	34780.0	16933.25	-	115481.50	37003.25
			-	-	7397.50	38637.50	54029.50	51895.50	26991.50	-	178951.50	60538.25

WATER USAGE FOR OMAKA IRRIGATION SCHEME 19 78 / 79 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
91	Vincent County Council	1" dia. pipe	-	-	-	-	-	-	-	-	-	-	-
92	Vincent Jockey Club	1415.25	-	-	-	159.0	777.0	438.0	-	-	1374.0	-	
93	Waldron PL & VG	An. Chge. 3/4" dia. pipe	-	-	-	-	-	-	-	-	-	-	
94	Webster MR	1" dia. pipe	-	-	-	-	-	-	-	-	-	-	
95	White Bros.	4537.50	-	-	106.0	2836.0	2996.0	2266.0	774.0	-	8978.0	4440.50	
96	White DJ	1" dia. pipe	-	-	-	-	-	-	-	-	-	-	
97	White G & C	5082	-	-	-	2802.0	1134.0	2019.0	342.0	-	6297.0	1215.0	
98	Williamson EL	6667	-	-	-	1095.0	1260.0	1451.50	574.0	-	4380.50	-	
99	Morgan RJ	3509	-	-	-	1287.0	519.0	1419.0	-	-	3275.0	-	
100	Wilson SR	5566	-	-	1090.50	3390.75	1371.0	2933.0	176.25	-	8961.50	3395.50	
101	Wilson WC & EW	7792.75	-	-	1377.0	3451.50	2982.50	3058.25	406.50	-	11275.75	3483.0	
102	Brown JD	1/2" dia. pipe	-	-	-	-	-	-	-	-	-	-	
103	Duncan DL Trust	847	-	-	-	600.0	336.0	242.0	-	-	1178.0	331.0	
104	Nolan EJ Trust	968	-	-	-	-	-	-	-	-	-	-	
105	Williamson B												
TOTAL THIS SHEET BROUGHT FORWARD			-	-	2573.50	15621.25	11375.50	13826.75	2272.75	-	45669.75	12865.0	
RUNNING TOTAL			-	-	7397.50	38637.50	54029.50	51895.50	26991.50	-	178951.50	60538.25	
			-	-	9971.0	54258.75	65405.0	65722.25	29264.25	-	224621.25	73403.25	

WATER USAGE FOR <small>CM&amp;WU</small> IRRIGATION SCHEME 19 77/78 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
1	Alexandra AJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
2	Stafford TE & DJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
3	Airey RD & FM	3993	-	-	367.50	1390.50	1419.50	864.50	672.50	-	4714.50	721.50	
4	Anderson IW	1815.25	-	3.75	725.75	559.75	693.75	648.50	632.0	-	3263.50	1458.25	
5	Anderton M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
6	Armitage DW & EJ	484	-	-	1104.0	542.0	1488.0	1008.0	469.0	432.0	5043.0	4559.0	
7	Armitage W & DW	An.Chge.	-	-	-	-	-	-	-	-	-	-	-
8	Armstrong Bros.	7066.25	-	-	1298.0	1788.0	1860.0	1794.50	1906.75	1625.50	10272.75	3440.50	
9	Avonath Partnership	1936	-	652.50	1015.0	592.50	1135.0	716.0	378.0	105.0	4594.0	2658.0	
10	Ball LV	1694	-	354.0	1367.50	697.0	648.0	299.50	551.0	-	3917.0	2223.0	
11	Barker WR & L	72.50	15.0	34.25	12.0	12.75	15.0	45.50	12.50	-	147.0	75.50	
12	Becks Community Centre	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
13	Bell CW	2 @ 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
14	Bell RH	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
15	Berry EJ	3351.75	-	714.0	957.50	1775.0	980.0	360.0	349.50	324.0	5460.0	2108.25	
16	Brown RA & A	An.Chge	-	-	-	-	-	-	-	-	-	-	-
17	Clouston CJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
18	Nolan EJ & JG	399	-	-	290.0	253.50	359.0	53.0	236.0	-	1191.50	792.50	
19	Clouston IL	1936	-	942.0	363.0	774.0	816.0	678.0	480.0	192.0	4245.0	2309.0	
20	Clouston JA	605	26.0	498.0	935.0	512.0	1034.0	501.50	93.50	217.0	3817.0	3212.0	
21	Clouston SD	1972.25	1105.50	-	2209.0	1497.50	536.0	993.0	677.0	101.0	7119.0	5146.75	
22	Clouston WJ	1210	-	-	108.0	168.0	191.0	-	888.0	144.0	1499.0	289.0	
23	Corrigall AJ	1185.75	-	-	-	-	-	-	-	-	-	-	-
24	Corrigall JE & Son	1210	-	745.50	1161.50	1218.0	1385.0	1130.50	921.50	119.0	6681.0	4285.25	
25	Harris JM	2420	-	-	-	-	-	-	-	-	-	-	-
26	Davies EM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
27	Denton L	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
28	Devonshire Mining Company	Surplus water in winter	-	-	-	-	-	-	-	-	-	-	-
29	Donnelly EF	3520.50	-	275.0	992.0	865.0	820.0	642.0	953.0	576.0	5123.0	1602.50	
30	Donnelly FJ	4537.50	-	1732.50	1800.50	2358.50	1919.25	2074.75	653.0	713.0	11251.50	6714.0	
TOTAL THIS SHEET BROUGHT FORWARD			1146.50	5951.50	14706.25	15004.0	15299.50	11809.25	9873.25	4548.50	78338.75	41595.0	
RUNNING TOTAL			1146.50	5951.50	14706.25	15004.0	15299.50	11809.25	9873.25	4548.50	78338.75	41559.0	

WATER USAGE FOR OREKAU IRRIGATION SCHEME 1977/78 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
61	McKnight CG	254	-	96.0	177.0	240.0	500.0	223.50	140.0	72.0	1448.50	1194.50
62	McKnight SG	An.Chge.	-	-	-	-	-	-	-	-	-	-
63	MacLean DE	1609.25	139.0	718.50	667.50	744.50	1148.50	863.25	738.25	240.0	5259.50	3650.25
64	Mee MH	3025	-	156.0	728.0	996.0	1025.0	952.50	860.50	144.0	4862.0	1837.0
65	Mee J Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	-	-	-	-	-	-	-	-
67	Milne RL	1996.50	-	530.0	1694.0	1717.25	1329.50	1638.0	1230.0	-	8138.75	-
68	Moran JT	2916	-	-	792.50	990.50	780.0	839.75	754.25	80.25	4237.25	1321.25
69	Morgan JEF	4356	-	415.50	774.50	597.50	1110.50	1047.0	726.50	-	4671.50	315.50
70	Naylor EB	3013	-	292.0	1956.0	1692.0	1811.0	1335.0	897.50	-	7983.50	4970.50
71	Naylor G Est.	3146	-	-	1361.0	1024.0	694.0	1005.50	256.0	850.50	5191.0	2045.0
72	Orekaui Bowling Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
73	Orekaui Conc.Products Ltd.	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
74	Orekaui Contracting Co.	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
75	Orekaui Domain Board	24.25 & 1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
76	Orekaui Golf Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
77	Paterson BJ	4598	-	1225.50	3625.75	4163.75	3844.50	3103.0	2264.75	297.25	18524.50	13926.50
78	Paterson JS	3630	-	-	430.0	434.0	1457.25	376.0	766.75	192.0	3656.0	26.0
79	Robertson JS	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
80	Samuel RA & EJ	2783	-	288.0	498.0	795.0	1197.0	624.0	432.0	1152.0	4986.0	2203.0
81	Scorgie PRO Est.	6352.50	-	271.50	2036.25	1949.25	1989.50	2051.50	680.25	56.75	9035.0	2682.50
82	Scott EM	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
83	Shaw LG	1210	-	-	-	-	-	-	-	-	-	-
84	Sinclair SW	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
85	Stafford E	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
86	Stafford WA	5203 & 1" dia. pipe	-	1991.0	2397.50	1853.75	2172.75	1867.50	1574.50	187.50	12044.50	6841.50
87	Stevenson B	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
88	Stevenson JE	1815	-	711.0	600.0	1257.50	821.0	429.0	521.25	405.50	4745.25	2930.25
89	Thomson LL	2553	-	765.0	519.75	296.25	775.50	405.0	472.0	308.75	3542.25	989.25
90	Thurlow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET BROUGHT FORWARD			139.0	7460.0	18257.75	18751.25	20656.0	16760.50	12314.50	3986.50	98325.50	44933.0
RUNNING TOTAL			4225.0	14059.75	34625.75	40674.50	37093.25	31241.75	26700.25	10697.75	199318.0	114159.0
			4364.0	21519.75	52883.50	59425.75	57749.25	48002.25	39014.75	14684.25	297643.50	159092.0

WATER USAGE FOR <small>OMAU</small> IRRIGATION SCHEME 1977 / 78 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
91	Vincent County Council	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
92	Vincent Jockey Club	1452	-	-	3.0	918.0	276.0	1518.0	54.0	-	2769.0	1317.0	
93	Walchon EL & VG	An/Chge. 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
94	Webster MR	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	
95	White Bros.	4537.50	283.0	1988.0	1889.50	2938.50	2474.50	2061.0	1803.50	-	13438.0	8900.50	
96	White DJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	
97	White G & C	5082	-	2130.0	1659.0	2602.0	2337.0	955.0	1338.0	441.0	11462.0	6380.0	
98	Williamson EL	6667	-	601.50	1439.75	1235.0	1488.0	1344.0	868.0	-	6976.25	309.25	
99	Morgan RJ	3509	-	450.0	834.0	1239.0	1343.0	858.0	714.0	-	5438.0	1929.0	
100	Wilson SR	5566	-	1590.50	3367.0	1791.0	2295.0	1390.25	1494.50	102.0	12030.25	6464.25	
101	Wilson WC & FW	7792.75	-	2534.50	3465.0	3801.0	3529.75	4173.0	1531.50	670.50	19705.25	11912.50	
102	Brown JB	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	
103	Duncan LL Trust	847	-	415.0	482.50	60.0	542.50	538.50	213.0	250.50	2502.0	1655.0	
104	Wilson CG	968	-	180.0	188.0	148.0	232.0	420.0	192.0	-	1360.0	392.0	
TOTAL THIS SHEET			283.0	9889.50	13327.75	14732.50	14517.75	13257.75	8208.50	1464.0	75660.75	39259.50	
BRUGHE FORWARD			4364.0	21519.75	52883.50	59425.75	57749.25	48002.25	39014.75	14684.25	297643.50	159092.0	
RUNNING TOTAL			4647.0	31409.25	66211.25	74158.25	72267.0	61260.0	47223.25	16148.25	373324.25	198351.50	

WATER USAGE FOR <span style="margin-left: 100px;">MOKAU</span> <span style="margin-left: 100px;">IRRIGATION SCHEME 1976/77</span> <span style="margin-left: 50px;">SEASON</span>														
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA		
			sept	oct	nov	dec	jan	feb	mar	april				
1	Alexandra AJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
2	Stafford TE & DJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
3	Airey RD & EM	3993	-	-	95.0	-	-	263.25	671.50	353.0	1382.75	-	-	
4	Anderson IW	1815.25	-	-	343.0	142.50	-	648.50	704.50	80.0	1918.50	103.25	-	
5	Anderson M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
6	Armitage DW & EJ	484	-	-	240.0	432.0	-	360.0	336.0	792.0	2160.0	1676.0	-	
7	Armitage W & DW	An.Chge.	-	-	-	-	-	-	-	-	-	-	-	
8	Armstrong Bros.	7066.25	-	-	-	288.0	-	636.0	3032.0	935.0	4891.0	-	-	
9	Avonrath Partnership	1936	-	-	420.0	357.50	-	-	-	1015.0	1792.50	-	-	
10	Ball LV	1694	-	-	-	138.0	-	792.50	527.50	465.0	1923.0	229.0	-	
11	Barker WR & L	72.50	-	-	12.25	-	-	23.50	22.0	-	57.75	-	-	
12	Becks Community Centre	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
13	Bell GW	2 @ 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
14	Bell RH	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
15	Berry EJ	3109.75	-	-	773.0	246.50	-	122.0	1408.0	143.0	2692.50	-	-	
16	Brown RA & A	An.chge.	-	-	-	-	-	-	-	-	-	-	-	
17	Clouston CJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
18	Nolan EJ & JG	399	-	-	-	-	-	117.0	-	358.50	475.50	76.50	-	
19	Clouston IL	1936	-	-	386.0	-	-	1888.0	625.0	692.50	3591.50	1655.50	-	
20	Clouston JA	605	-	-	409.0	257.0	-	364.0	19.0	-	1049.0	444.0	-	
21	Clouston SD	1972.25	-	-	1175.0	-	-	1062.0	1362.0	444.0	4043.0	2070.75	-	
22	Clouston WJ	1210	-	-	-	-	-	-	343.50	31.0	374.50	-	-	
23	Conrighall IJ	1185.75	-	-	240.0	89.0	240.0	636.50	429.50	419.50	2054.50	868.75	-	
24	Conrighall JE & Son	1210	-	-	352.25	73.0	108.0	459.50	295.0	288.0	1575.75	365.75	-	
25	Duggan J	242	-	-	-	-	-	-	-	-	-	-	-	
26	Davies EM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
27	Denton L	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-	
28	Devonshire Mining Company	Surplus water in winter	-	-	-	-	-	-	-	-	-	-	-	
29	Donnelly EF	3520.50	-	-	2234.0	636.0	-	804.0	755.0	2053.0	6482.0	2961.50	-	
30	Donnelly FJ	4537.50	-	-	576.0	2124.50	-	1747.50	4072.0	1216.50	9736.50	5199.0	-	
TOTAL THIS SHEET BROUGHT FORWARD			-	-	7255.50	4784.0	348.0	9924.25	14602.50	9286.0	46200.25	15650.0	-	-
RUNNING TOTAL			-	-	7255.50	4784.0	348.0	9924.25	14602.50	9286.0	46200.25	15650.0	-	-



WATER USAGE FOR <small>CHAKU</small> IRRIGATION SCHEME 19 76 / 77 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
31	Donnelly H	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
32	Drake M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
33	Drake RH & LJ	72.50 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
34	Duncan DL	2057	-	-	328.50	241.25	-	668.0	289.0	230.0	1756.75	-
35	Garry AM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
36	Stafford DE	387.50	-	-	-	-	-	-	-	-	-	-
37	Glassford AG & Son	1210	-	-	1708.0	276.0	-	1040.0	1780.0	-	4804.0	3594.0
38	Glassford OD	968	-	-	-	384.0	-	420.0	977.0	-	1781.0	813.0
39	Gunn DG	968	-	-	-	-	-	-	-	-	-	-
40	Lauder Lodge Farm Ltd	1485.25	-	-	-	-	-	732.0	528.0	-	1260.0	-
41	Hamilton GS	302.50	-	-	-	-	-	-	-	-	-	-
42	Lillybank Farm Ltd	2202.25	-	-	-	-	-	-	-	960.0	960.0	-
43	Hamilton NM	1815	-	-	672.0	168.0	-	648.0	1488.0	624.0	3600.0	1785.0
44	Harley EJP	4114	-	-	675.0	264.0	-	1423.50	1650.50	619.50	4632.50	518.50
45	Harley SE & JW	2662	-	-	-	-	-	48.0	72.0	108.0	228.0	-
46	McIntosh WS	3182.50	-	-	1005.0	392.50	-	1980.0	1018.0	538.50	4934.0	1751.50
47	Hare RR Est.	An.chge.	-	-	-	-	-	-	-	-	-	-
48	Huddleston C & Sons	9196	-	-	576.0	279.0	1078.75	3224.0	3196.50	1453.50	9807.75	611.75
49	Huddleston EJ & WC	1875.50	-	-	777.50	-	-	-	1773.0	1176.0	3726.50	1851.0
50	Huddleston E & R	1694	-	-	-	432.0	-	1863.0	-	504.0	2799.0	1105.0
51	Kane A & Son	2541 1" dia. pipe	-	-	636.0	-	48.0	444.0	276.0	540.0	1944.0	-
52	Kane Kevin Ltd.	726	-	-	-	-	-	-	316.0	-	316.0	-
53	Kilbally JV	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
54	Kirney PJ	3327.50	-	-	1183.50	670.50	1438.0	1238.25	2111.0	765.75	7407.0	4079.50
55	Leask Bros.	2178	-	-	576.0	-	-	576.0	-	504.0	1656.0	-
56	Leask W	1815	-	-	-	-	-	-	1084.0	-	1084.0	-
57	Leith E & V	1815	-	-	-	-	-	-	936.0	1080.0	2016.0	201.0
58	McAuslan SS	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
59	McCormachie WC	2238.50	-	-	-	-	-	48.0	900.0	1098.0	2046.0	-
60	McIntosh JM Est.	3932.50 & 1" dia.pipe	-	-	1060.50	1440.0	1440.0	1904.75	2116.0	1214.50	9175.75	5243.25
TOTAL THIS SHEET BROUGHT FORWARD			-	-	9198.0	4547.25	4004.75	16257.50	20511.0	11415.75	65934.25	21553.50
RUNNING TOTAL			-	-	7255.50	4784.0	348.0	9924.25	14602.50	9286.0	46200.25	15650.0
			-	-	16453.50	9331.25	4352.75	26181.75	35113.50	20701.75	112134.50	37203.50

WATER USAGE FOR OMAKA IRRIGATION SCHEME 1976 / 77 SEASON												
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA
			sept	oct	nov	dec	jan	feb	mar	april		
61	McKnight CG	254	-	-	96.0	-	-	139.50	68.50	143.0	447.0	193.0
62	McKnight SG	An.chge.	-	-	-	-	-	-	-	-	-	-
63	MacLean DE	1609.25	-	-	983.50	-	392.0	1216.50	963.50	238.0	3793.50	2184.25
64	Mae MH	9025	-	-	-	-	-	-	1008.0	1164.0	2172.0	-
65	Mae J Est.	An.chge.	-	-	-	-	-	-	-	-	-	-
66	Milne RL & MA	605	-	-	303.0	-	-	-	-	-	303.0	-
67	Milne RL	1996.50	-	-	298.50	538.50	-	959.0	1754.25	749.25	4299.50	2303.0
68	Moran JT	2916	-	-	272.50	162.75	-	760.75	742.0	708.50	2646.50	-
69	Morgan JEF	4356	-	-	667.0	288.0	43.75	89.25	960.0	339.0	2387.0	-
70	Naylor EB	3013	-	-	-	216.0	-	384.0	744.0	552.0	1896.0	-
71	Naylor G Est.	3146	-	-	-	123.0	492.0	625.0	483.50	772.50	2496.0	-
72	Omakau Bowling Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
73	Omakau Conc.Products Ltd.	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
74	Omakau Contracting Co.	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
75	Omakau Drain Board	24.25 & 1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
76	Omakau Golf Club	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
77	Paterson BJ	4598	-	-	2412.25	1041.25	263.38	3594.62	3589.25	2919.0	13819.75	9221.75
78	Paterson JS	3630	-	-	327.0	-	-	-	1822.50	1012.0	3161.50	-
79	Robertson JS	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
80	Samuel RA & FJ	2783	-	-	786.0	190.0	-	672.0	1158.0	660.0	3466.0	683.0
81	Scorgie PRO Est.	6352.50	-	-	1136.0	397.0	577.0	1684.0	899.25	320.25	5013.50	-
82	Scott EM	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
83	Shaw LG	1210	-	-	-	-	-	-	-	-	-	-
84	Sinclair SW	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
85	Stafford JJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
86	Stafford WA	5203 & 1" dia. pipe	-	-	2183.0	585.50	886.50	2598.75	2324.50	407.50	8985.75	3782.75
87	Stevenson B	1" dia.pipe	-	-	-	-	-	-	-	-	-	-
88	Stevenson JE	1815	-	-	729.0	195.0	118.50	1081.0	1204.0	164.50	3492.0	1677.0
89	Thomson LL	2553	-	-	-	65.0	252.50	585.0	629.0	-	1531.50	-
90	Thurlow Bros.	An.Chge.	-	-	-	-	-	-	-	-	-	-
TOTAL THIS SHEET BROUGHT FORWARD			-	-	10193.75	3802.0	3025.63	14389.37	18350.25	10149.50	59910.50	20044.75
RUNNING TOTAL			-	-	16453.50	9331.25	4352.75	26181.75	35113.50	20701.75	112134.50	37203.50
			-	-	26647.25	13133.25	7378.38	40571.12	53463.75	30851.25	172045.0	57248.25

WATER USAGE FOR OMAHA IRRIGATION SCHEME 19 76 / 77 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
91	Vincent County Council	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
92	Vincent Jockey Club	1452	-	-	288.0	502.50	400.50	600.0	202.0	-	1993.0	541.0	
93	Waldron PL & VG	An.Chge. 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
94	Webster MR	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
95	White Bros.	4537.50	-	-	706.50	731.50	-	3084.50	1251.0	1153.0	6926.50	2389.0	
96	White DJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
97	White G & C	5082	-	-	852.0	504.0	47.0	2098.50	1204.0	1482.50	6188.0	1106.0	
98	Williamson EL	6667	-	-	301.0	644.0	-	1008.0	144.0	618.0	2715.0	-	
99	Morgan RJ	3509	-	-	351.0	504.0	-	321.0	2481.0	414.0	4271.0	762.0	
100	Wilson SR	5566	-	-	2581.0	168.50	391.75	2776.75	3655.75	831.0	10404.75	4838.75	
101	Wilson WL & BW	7792.75	-	-	3173.0	856.50	588.0	3180.50	3498.50	802.50	12099.0	4306.25	
102	Brown JB	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
103	Duncan DL Trust	847	-	-	-	422.50	-	552.50	-	524.0	1499.0	652.0	
TOTAL THIS SHEET BROUGHT FORWARD			-	-	8452.50	4333.50	1427.25	13621.75	12436.25	5825.0	46096.25	14595.0	
RUNNING TOTAL			-	-	26647.25	13133.25	7378.38	40571.12	53463.75	30851.25	172045.0	57248.25	
			-	-	35099.75	17466.75	8805.63	54192.87	65900.0	36676.25	218141.25	61843.25	

WATER USAGE FOR OMAKA IRRIGATION SCHEME 19 75/76 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept.	oct	nov	dec	jan	feb	mar			april
1	Alexandra AJ	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
2	Leaning Rock Rabbit Board	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
3	Airey RO & FM	3993	-	25.50	435.0	1303.50	973.50	967.50	428.0	459.0	4592.0	599.0
4	Anderson LW	1815.25	-	176.75	411.50	581.75	483.0	519.50	294.0	262.50	2729.0	913.75
5	Anderton M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
6	Armitage DW & EJ	484	-	96.0	528.0	1248.0	756.0	1056.0	540.0	300.0	4524.0	4040.0
7	Armitage W & DW	An.Chge.	-	-	-	-	-	-	-	-	-	-
8	Armstrong Bros.	7066.25	-	-	600.0	2379.0	2521.0	2121.75	1550.0	1449.75	10621.50	3555.25
9	Avonrath Partnership	1936	-	801.0	568.50	542.50	715.0	600.0	310.0	467.50	4004.50	2068.50
10	Ball L	1694	-	-	71.0	-	873.50	436.0	555.50	547.50	2483.50	789.50
11	Barker WR & L	72.50	-	-	34.50	7.50	10.75	45.50	11.50	-	109.75	37.25
12	Becks Community Centre	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-
13	Bell CW	2 @ 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
14	Bell RH	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
15	Henry EJ	3109.75	-	-	1226.0	746.0	823.0	668.0	561.0	388.0	4412.0	1302.25
16	Brown RA & A	An.Chge.	-	-	-	-	-	-	-	-	-	-
17	Clouston CJ	1936 & 3/4" dia.pipe	-	216.0	564.0	1861.0	545.75	335.0	242.50	170.50	3934.75	1998.75
18	Clouston EF	399	-	429.0	530.0	272.0	232.0	144.0	383.0	203.50	2193.50	1794.50
19	Clouston IL	1936	-	408.0	-	-	-	341.0	-	-	749.0	-
20	Clouston JA	605	-	622.0	45.0	723.0	669.0	381.50	114.0	-	2554.50	1949.50
21	Clouston SD	1972.25	-	1279.0	1214.50	2395.0	627.0	903.0	1142.50	931.75	8492.75	6520.50
22	Clouston WJ	1210	-	-	-	373.0	496.75	608.0	107.0	325.0	1909.75	699.75
23	Connigall LJ	1185.75	-	424.0	267.50	657.50	563.0	497.0	241.0	253.50	2903.50	1717.75
24	Connigall JE & Son	1210	-	286.0	319.0	688.0	530.0	410.0	308.50	167.50	2709.0	1499.0
25	Duggan J	242	-	-	-	-	69.0	-	47.50	-	116.50	-
26	Davies EM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
27	Denton L	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-
28	Devonshire Mining Company	Surplus water in winter	-	-	-	-	-	-	-	-	-	-
29	Donnelly EF	3520.50	-	190.0	1546.0	1119.25	775.0	470.0	580.0	202.0	4882.25	1361.75
30	Donnelly FJ	4537.50	-	1565.50	1729.0	1947.0	2294.50	1750.0	1001.25	595.0	10882.25	6344.75
TOTAL THIS SHEET BROUGHT FORWARD			-	6518.75	10089.50	16844.0	13957.75	12253.75	8417.25	6723.0	74804.0	37191.75
RUNNING TOTAL			-	6518.75	10089.50	16844.0	13957.75	12253.75	8417.25	6723.0	74804.0	37191.75

WATER USAGE FOR OPAKU IRRIGATION SCHEME 19 75 / 76 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
31	Donnelly H	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
32	Drake M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
33	Drake RH & LJ	72.50 3/4" dia.pipe	-	-	-	156.0	84.0	108.0	23.75	-	371.75	299.25	
34	Duncan DL	2057	-	484.50	407.0	540.0	683.75	382.0	562.0	623.0	3682.25	1625.25	
35	Garry AM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
36	Gavin D	387.50	-	-	23.50	57.50	-	48.0	-	-	129.0	-	
37	Glassford AG & Son	1210	-	1494.0	384.0	1673.50	1464.0	795.0	697.0	1003.0	7510.50	6300.50	
38	Glassford CD	726	-	-	720.0	336.0	776.0	336.0	504.0	588.0	3260.0	2534.0	
39	Gunn DG	968	-	-	-	24.0	264.0	228.0	68.0	-	584.0	-	
40	Lauder Lodge Farm Ltd	1486.25	-	-	72.0	721.0	251.0	832.0	660.0	1006.0	3542.0	2055.75	
41	Hamilton GS	302.50	-	-	-	-	-	-	90.0	42.0	132.0	-	
42	Lillybank Farm Ltd	2202.25	-	-	-	828.0	1302.0	954.0	732.0	888.0	4704.0	2501.75	
43	Hamilton NM	1815	-	-	230.50	1008.0	1110.0	1008.0	939.0	858.0	5153.50	3338.50	
44	Harley EJP	4114	-	1022.0	1085.0	1784.25	1931.0	1248.0	931.0	844.0	8845.25	4731.25	
45	Harley SE & JW	605	-	-	-	178.0	143.75	120.0	-	204.0	645.75	40.75	
46	McIntosh WS	3182.50	-	863.0	916.0	1617.50	1280.0	1104.0	716.0	231.0	6727.50	3545.0	
47	Hore RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-	
48	Huddleston C & Sons	9196	-	-	1517.0	3581.75	3390.50	2086.50	1907.50	1773.0	14256.25	5060.25	
49	Huddleston EJ & WC	1875.50	-	804.0	637.50	2109.0	1198.0	772.0	800.0	718.0	6538.50	4663.0	
50	Huddleston E & R	1694	-	-	-	-	-	-	-	-	-	-	
51	Kane A & Son	2541 1" dia.pipe	-	48.0	477.50	661.0	740.0	672.0	720.0	720.0	4038.50	1497.50	
52	Kane Kevin Ltd.	726	-	-	216.0	360.0	396.0	522.0	21.38	-	1515.38	789.38	
53	Kilkelly JV	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	
54	Kinney PJ	3327.50	-	1133.50	1912.50	1871.25	2712.75	1693.50	573.0	444.0	10340.50	7013.0	
55	Leask Bros.	2178	-	432.0	312.0	1249.0	744.0	696.0	681.50	360.0	4474.50	2296.50	
56	Leask W	1815	-	-	312.0	744.0	721.0	-	-	-	1777.0	-	
57	Leith E & V	1815	-	-	-	336.0	758.0	330.0	530.0	278.0	2232.0	417.0	
58	McAuslan SS	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
59	McConnachie WG	2238.50	-	-	-	720.0	1116.0	1008.0	968.50	852.0	4664.50	2426.0	
60	McIntosh JM Est.	9932.50 & 1" dia.pipe	-	1514.0	2092.50	1997.75	2088.75	2003.50	719.0	769.0	11184.50	7252.0	
TOTAL THIS SHEET			-	7795.0	11315.0	22553.50	23154.50	16946.50	12343.63	12201.0	106309.13	58384.63	
BROUGHT FORWARD			-	6518.75	10089.50	16844.0	13957.75	12253.75	8417.25	6723.0	74804.0	37191.75	
RUNNING TOTAL			-	14313.75	21404.50	39397.50	37112.25	29200.25	20760.88	18294.0	181113.13	95576.38	

WATER USAGE FOR OAKAU IRRIGATION SCHEME 19 75/76 SEASON													
L/N	NAME	QUOTA	M O N T H								TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar	april			
91	Vincent County Council	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	-
92	Vincent Jockey Club	1452	-	-	454.50	504.0	1095.0	-	-	-	2053.50	601.50	
93	Waldron PL & VG	An.Chge. 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
94	Webster MR	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	
95	White Bros.	4537.50	-	1340.0	1450.0	1772.0	2145.0	2755.0	873.0	533.0	10868.0	6330.50	
96	White CJ	1" dia.pipe	-	-	-	-	-	-	-	-	-	-	
97	White G & C	5082	-	1672.0	856.50	1333.50	1669.50	2858.0	790.0	421.0	9600.50	4518.50	
98	Williamson EL	6667	-	1290.0	398.0	1745.75	1872.25	1010.0	813.25	533.0	7662.25	995.25	
99	Wilson CG	3509	-	478.0	365.0	2078.25	1381.25	1106.0	570.0	343.0	6321.50	2812.50	
100	Wilson SR	5566	-	3787.50	1538.75	2734.50	1044.0	2778.25	1176.0	572.0	13631.0	8065.0	
101	Wilson WL & BW	7792.75	-	2570.50	2074.0	3043.0	3384.75	2531.0	1414.0	1010.0	16027.25	8234.50	
102	Brown JB	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	
TOTAL THIS SHEET			-	11138.0	7136.75	13211.0	12591.75	13038.25	5636.25	3412.0	66164.0	31557.75	
BROUGHT FORWARD			-	21098.75	30851.12	61454.25	59507.0	46574.25	32267.26	27850.25	279602.88	144606.88	
RUNNING TOTAL			-	32236.75	37987.87	74665.25	72098.75	59612.50	37903.51	31262.25	345766.88	176164.63	

WATER USAGE FOR <small>CHAKU</small> IRRIGATION SCHEME 19 83 / 84 SEASON												
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA	
			sept	oct	nov	dec	jan	feb	mar			april
31	Void	-										
32	Void	-										
33	Hodge RG & JA	72.50 3/4" dia.pipe	-	-	24.0	24.0	-	-	-	-	48.0	-
34	Duncan DL	2057	-	-	48.0	612.0	795.0	850.0	288.0	-	2593.0	536.0
35	Void	-										
36	Stafford DE	387.50	-	-	-	-	-	-	-	-	-	-
37	Glassford AG & Son	1210	-	-	1536.0	164.0	984.0	1408.0	-	-	4092.0	2882.0
38	Glassford CO & SR	968	-	-	-	504.0	606.0	72.0	624.0	-	1806.0	838.0
39	Tucker GF	968	-	-	-	-	453.0	144.0	162.0	-	759.0	-
40	Lauder Lodge Farm Ltd	1485.25	-	-	-	-	-	-	-	-	-	-
41	Hamilton GS	302.50	-	-	-	-	-	-	24.0	-	24.0	-
42	Lillybank Farm Ltd	2202.25	-	-	-	401.0	393.50	504.0	240.0	-	1538.50	-
43	Hamilton NM	1815	-	-	522.0	432.0	535.50	366.0	240.0	-	2095.50	2805.0
44	Harley EJP	2662	-	-	-	252.0	825.0	288.0	36.0	-	1401.0	-
45	Harley SE	605	-	-	-	-	-	-	-	-	-	-
46	McIntosh WS	4634.50	-	-	432.0	2016.0	1105.0	828.0	459.0	1224.0	6064.0	1429.50
47	Hore RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-
48	Huddleston FA	2178	-	-	-	1382.0	678.0	-	454.50	950.0	3464.50	1286.50
49	Huddleston WC & Sons	1875.50	-	-	-	-	-	-	-	432.0	432.0	-
50	Huddleston WC & Sons	1694	-	-	-	-	-	-	-	-	-	-
51	Kane A & Son	2541 1" dia. pipe	-	-	-	-	-	-	-	-	-	-
52	Kane Kevin Ltd	726	-	-	324.0	444.0	971.0	504.0	194.50	-	2437.50	1711.50
53	Huddleston ET	7018	-	-	283.0	912.0	1374.0	1200.0	160.50	138.0	4067.50	-
54	Kimney PJ	3327.50	-	-	804.0	1757.0	2103.50	1102.0	311.25	912.0	6989.75	3662.25
55	Rutter LGA	1936	-	-	-	-	144.0	-	96.0	-	240.0	-
56	Leask RJ	2057	-	-	-	262.50	424.50	90.0	72.0	421.50	1270.50	-
57	Leith EF	1815	-	-	-	-	150.0	1048.0	-	-	1198.0	-
58	Void	-										
59	Hanrex-Green-Kedball	2238.50	-	-	-	252.0	331.0	528.0	144.0	-	1255.0	-
60	Hakker LD & J	3932.50	-	-	1580.0	2118.0	2073.0	2070.0	502.75	936.0	9279.75	5347.25
TOTAL THIS SHEET BROUGHT FORWARD			-	-	5553.0	11532.50	13946.0	11002.0	4008.50	5013.50	51055.50	20498.0
RUNNING TOTAL			-	-	4121.50	8291.50	12689.75	11921.50	3248.50	1814.0	38580.75	12091.25
			-	-	9674.50	19824.0	26635.75	22923.50	7257.0	6827.50	89636.25	32589.25

WATER USAGE FOR OPAKAI												IRRIGATION SCHEME 19 83 / 84 SEASON	
L/N	NAME	QUOTA	M O N T H							TOTAL	EXTRA		
			sept	oct	nov	dec	jan	feb	mar			april	
1	Void	-											
2	Stafford TE & DJ	2371.50 & 3/4" dia.pipe	-	-	1926.0	342.0	2145.0	1792.0	120.0	-	6334.0	3962.50	
3	Airey RD & EM	3993	-	-	-	210.0	300.0	300.0	-	-	810.0	-	
4	Williamson MB	1815.25	-	-	-	-	313.50	342.0	17.0	-	672.50	-	
5	Anderton M	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
6	McKnight CG & EJ & White FC	484	-	-	-	-	-	-	-	-	-	-	
7	Hore RR Est.	An.Chge.	-	-	-	-	-	-	-	-	-	-	
8	Armstrong Bros.	7066.25	-	-	-	588.0	1568.0	2392.50	654.50	-	5203.0	-	
9	Avonrath Partnership	1936.0	-	-	-	612.0	768.0	-	-	-	1380.0	-	
10	Brown TM & CM	1694.0	-	-	-	480.0	252.0	282.0	210.0	-	1224.0	-	
11	Barber WR & L	72.50	-	-	-	-	-	-	-	-	-	-	
12	Becks Community Centre	1/2" dia.pipe	-	-	-	-	-	-	-	-	-	-	
13	Bell CW	2 @ 3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
14	Void	-											
15	Berry EJ	3351.75	-	-	-	-	450.0	2040.0	414.0	-	2904.0	-	
16	Brown IR	An.Chge.	-	-	-	-	-	-	-	-	-	-	
17	Void	-											
18	Nolan EJ & JG	399	-	-	-	-	-	-	-	-	-	-	
19	Clouston IL	1936	-	-	96.0	622.50	-	912.0	52.0	1009.50	2692.0	756.0	
20	Clouston IA	605	-	-	416.0	545.50	575.0	-	624.50	-	2161.0	1566.0	
21	Clouston SD	1972.25	-	-	648.0	889.50	1076.0	900.0	-	-	3513.50	-	
22	Clouston WJ	1210	-	-	-	-	-	-	-	-	-	-	
23	Connigall AJ	1185.75	-	-	-	-	-	-	-	-	-	-	
24	Connigall JE & Son	1210	-	-	143.50	815.0	1084.0	507.0	295.50	355.0	3200.0	1990.0	
25	McNemara MW	2420	-	-	406.0	216.0	742.0	600.0	66.0	-	2030.0	-	
26	Davies EM	3/4" dia.pipe	-	-	-	-	-	-	-	-	-	-	
27	Void	-											
28	Devonshire Mining Company	Surplus water in winter	-	-	-	-	-	-	-	-	-	-	
29	Donnelly EF	1633.50	-	-	48.0	571.0	474.0	376.0	147.0	-	1616.0	-	
30	Heckler MJ	4537.50	-	-	438.0	2400.0	2942.25	1476.0	648.0	450.0	8354.25	3816.75	
TOTAL THIS SHEET BROUGHT FORWARD			-	-	4121.50	8291.50	12689.75	11921.50	3248.50	1814.0	38580.75	12091.25	
RUNNING TOTAL			-	-	4121.50	8291.50	12689.75	11921.50	3248.50	1814.0	38580.75	12091.25	



APPENDIX E

REVIEW OF OLD CENTRAL OTAGO IRRIGATION SCHEMES

BRIEF FOR PHASE 1 : INVENTORY OF EXISTING INFORMATION  
AND SURVEY OF SCHEME SUPPLY WORKS

1 INTRODUCTION

A comprehensive programme for the upgrading of the old Central Otago irrigation schemes is proposed. It has been determined that this programme should be developed in four phases:

- a Phase 1 : Inventory of existing schemes
- b Phase 2 : Technical assessment of schemes for funding and programming for upgrading
- c Phase 3 : Feasibility reporting on scheme proposals
- d Phase 4 : Design and construction

This brief sets out the requirements for phase 1 of the review programme.

2 SCOPE OF BRIEF

The objective of phase 1 is to provide:

- a An inventory of the existing scheme components, including aerial maps and photographs.
- b An assessment of the structural condition of the scheme components.
- c A commentary on operational problems and possible improvements.
- d A summary of general operations aspects associated with the schemes.
- e An assessment of present operating costs and the reduction in operating costs which will result from scheme upgrading works.

2.1 Inventory of Components

For each scheme an inventory of components will be prepared. The inventory is to identify and describe all headworks components and structures and major distributary structures. The location of these components and structures is to be defined by station values accurate to 100 metres.

2.2 Plans, Maps and Photographs

The following pictorial documentation of each scheme is to be provided:

### 3 SCHEMES TO BE REVIEWED

The following schemes are to be included in this review:

- a Arrow
- b Manuherikia
- c Hawkdun
- d Ida Valley
- e Omakau
- f Teviot River
- g Last Chance
- h Galloway
- i Ripponvale
- j Ardgour
- k Idaburn
- l Pisa
- m Tarras

### 4 PROGRAMME

The work contained within this brief is to be completed by 31 May 1985.

Reports on each scheme are to be provided progressively between 15 January 1985 and 31 May 1985.

A programme is to be prepared by 1 December 1984 detailing all items required for the completion of phase 1.

### 5 MANAGEMENT

The management of the refurbishment of old Central Otago irrigation schemes is to be under the direction of the district projects manager.

Phase 1 of the review is to be undertaken by staff under the direction of the resident engineer, Alexandra.

The district design engineer is to be the recipient of the phase 1 scheme reports, and therefore he will provide technical oversight of this work.

The project manager is responsible for the oversight of progress and costs of this work.

### 6 FINANCIAL MANAGEMENT

A detailed estimate for the completion of this work is to be submitted to the district projects manager by 5 December 1984 for his approval. All costs associated with the execution of this brief are to be properly identified and recorded.

### 7 REPORTING

Monthly reports are to be submitted to the district projects manager by the tenth day of each month. These reports are

to cover details of progress, programme review, expenditure and forecast final cost and are to be presented in the format set out in the project management manual.

*K J Thompson*  
K J Thompson  
District Projects Manager

23 November 1984