

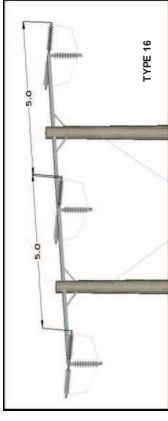
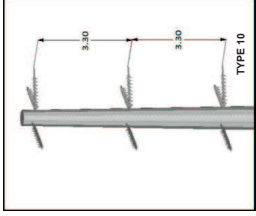
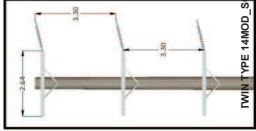
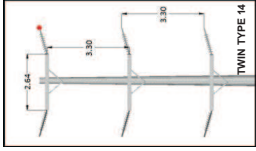
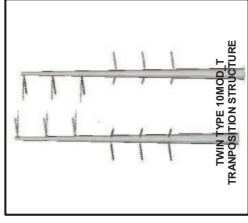
Appendix B

Pole Schedule

POLE NO	NEW POLE ID	PROPOSED WORK ON POLE	EXISTING POLE COORDINATES			EXISTING POLE HEIGHT ABOVE GL (m)	NEW POLE COORDINATES			NEW POLE HEIGHT ABOVE GL(m)	TYPE	CHANGE IN HEIGHT (m)	STRUCTURE HEIGHT FULLY COMPLIES WITH TAURANGA AIRPORT HEIGHT RESTRICTIONS	RADIAL DISTANCE FROM EXISTING STRUCTURE WHERE APPLICABLE (m)	DESCRIPTION OF WORKS	REQUIRE DEEP INSULATED EARTH
			X	Y	Z		X	Y	Z							
28 (LHS)	28A	TWIN POLE REPLACED WITH TWIN POLE	1880443.5	5820984.3		18.2	1880439.4	5820981.4	53.9	25.5	TWIN TYPE 10MOD_P	7.3	YES	5.0	POLE LENGTH 25.5m, FOUNDATION UPSTAND = 0.5m, STRUCTURE TOTAL HEIGHT ABOVE GL = 26.0m, STRUCTURE HEIGHT ABOVE NSL = 49.3m.	YES
28 (RHS)	28B		1880446.9	5820980.7			1880443.4	5820987.0	53.9							
28T		NEW TEMPORARY POLE					1880436.7	5821001.7	53.9	19.4	TYPE 10		YES		NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	NO
29	29A	POLE REPLACEMENT	1880636.7	5821076.4		16.3	1880540.7	5821079.4	55.6	28.2	TYPE 14	11.9	YES	5.0	POLE REPLACED WITH 32m STEEL POLE AND INSTALL SECOND CIRCUIT. NEW POLE MOVED 5m TOWARDS HA1 TO ALLOW FOR INSTALLATION WORKS.	YES
30	30A	POLE REPLACEMENT	1880645.0	5821158.9		17.2	1880641.0	5821155.9	52.3	28.2	TYPE 14	11.0	YES	5.0	POLE REPLACED WITH 32m STEEL POLE AND INSTALL SECOND CIRCUIT. NEW POLE MOVED 5m TOWARDS HA1 TO ALLOW FOR INSTALLATION WORKS.	YES
31	31A	POLE REPLACEMENT	1880735.0	5821237.7		18.1	1880731.2	5821234.4	44.1	28.2	TYPE 14	10.2	YES	5.0	POLE REPLACED WITH 32m STEEL POLE AND INSTALL SECOND CIRCUIT. NEW POLE MOVED 5m TOWARDS HA1 TO ALLOW FOR INSTALLATION WORKS.	YES
32	32A	POLE REPLACEMENT	1880810.7	5821317.5		18.0	1880807.3	5821313.9	41.6	28.2	TYPE 14	10.2	YES	5.0	POLE REPLACED WITH 32m STEEL POLE AND INSTALL SECOND CIRCUIT. NEW POLE MOVED 5m TOWARDS HA1 TO ALLOW FOR INSTALLATION WORKS.	YES
33		NO CHANGE	1880882.0	5821394.7		17.1					CTS	0.0	YES		EXISTING CTS POLE REMAINS UNCHANGED	NO
33A		NEW POLE					1880876.4	5821387.5	38.7	19.4	TYPE 14MOD_SC	19.4	YES		NEW 23m TP150 HS CONCRETE POLE AND SECOND CIRCUIT INSTALLED	YES
33B		NEW POLE					1880895.9	5821423.5	36.3	22.4	TYPE 10	22.4	YES		NEW 26m STEEL POLE CARRYING SINGLE CIRCUIT	YES
33C		NEW POLE					1880895.4	5821531.1	32.8	34.7	TYPE 18MOD_ECS	34.7	YES		POLE LENGTH 33.0m, VERTICAL LINE POST LENGTH = 1.4m, FOUNDATION UPSTAND = 0.3m, STRUCTURE TOTAL HEIGHT ABOVE GL = 34.7m, STRUCTURE HEIGHT ABOVE NSL = 36.5m	YES
33D		NEW POLE					1881249.5	5822129.1	32.2	46.8	TYPE 18MOD_ECS	46.8	YES		POLE LENGTH 46.1m, VERTICAL LINE POST LENGTH = 1.4m, FOUNDATION UPSTAND = 0.3m, STRUCTURE TOTAL HEIGHT ABOVE GL = 46.8m, STRUCTURE HEIGHT ABOVE NSL = 48.5m.	YES
33E		NEW POLE					1881363.7	5822254.1	53.4	24.0	TYPE 10	24.0	YES		INSTALL NEW 24m STEEL POLE CARRYING SINGLE CIRCUIT	YES
34		NO CHANGE	1881275.9	5822127.8		16.8					CTS	0.0	YES		EXISTING CTS POLE REMAINS UNCHANGED	NO
35		NO CHANGE	1881337.2	5822198.1		16.9					TYPE 14MOD_SC	0.0	YES		EXISTING POLE REMAINS UNCHANGED	NO
36		NO CHANGE	1881377.4	5822247.2		16.9					TYPE 14MOD_SC	0.0	YES		EXISTING POLE REMAIN UNCHANGED	NO
37		NO CHANGE	1881435.7	5822294.7		15.6					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
38		NO CHANGE	1881509.3	5822326.5		15.6					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
	38A	POLE REPLACEMENT	1881594.9	5822358.9		15.6	1881658.6	5822369.0	50.2	19.4	TYPE 14	3.9	YES	64.8	NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	YES
39A		NEW POLE					1881658.6	5822369.0	50.2	19.4	TYPE 14	19.4	YES		NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	YES
40		NO CHANGE	1881727.5	5822382.1		19.4					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
40A		NEW POLE					1881830.3	5822398.4	50.5	19.4	TYPE 14	19.4	YES		NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	YES
41		NO CHANGE	1881880.9	5822406.4		16.9					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
41A		NEW POLE					1881932.0	5822420.1	50.4	19.4	TYPE 14	19.4	YES		NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	YES
42		NO CHANGE	1881978.0	5822433.0		15.6					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
42A		NEW POLE					1882022.7	5822450.7	49.5	19.4	TYPE 14	19.4	YES		NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	YES
43A	43B	POLE REPLACEMENT	1882089.4	5822499.8		16.9	1882073.8	5822472.3	49.0	19.4	TYPE 14	2.6	YES	5.0	POLE REPLACED WITH 23m TP150 CONCRETE HS POLE AND INSTALL SECOND CIRCUIT. NEW POLE MOVED 5m TOWARDS HA1 TO ALLOW FOR INSTALLATION WORKS.	YES
43C		NEW POLE					1882116.6	5822495.6	48.6	19.4	TYPE 14	19.4	YES		NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	YES
44A		NO CHANGE	1882158.1	5822519.0		18.2					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
44B		NEW POLE					1882206.9	5822540.7	47.9	19.4	TYPE 14	19.4	YES		NEW 23m TP150 HS CONCRETE POLE CARRYING BOTH CIRCUITS	YES
45		NO CHANGE	1882243.9	5822575.3		18.2					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
45A		NEW POLE					1882281.3	5822606.8	47.7	19.4	TYPE 14	19.4	YES		NEW 23m TP150 HS CONCRETE POLE CARRYING SINGLE CIRCUITS	YES
46		NO CHANGE	1882319.9	5822640.6		18.2					TYPE 14	0.0	YES		EXISTING POLE WITH 2ND CIRCUIT INSTALLED	YES
47	47A	POLE REPLACEMENT	1882413.9	5822750.8		19.4	1882403.9	5822741.2	48.1	22.8	TYPE 14	3.4	YES	13.8	POLE REPLACED WITH 26m STEEL POLE AND INSTALL SECOND CIRCUIT. NEW POLE MOVED 13.8m TOWARDS HA1 TO ALLOW FOR INSTALLATION WORKS.	YES
48	48A	POLE REPLACEMENT	1882526.7	5822829.9		19.4	1882510.0	5822827.3	46.1	22.8	TYPE 10	3.4	YES	16.8	POLE 48 REPLACED WITH A 26.0m TALL STEEL POLE, CARRYING ONE CIRCUIT	YES
48B		NEW POLE					1882513.5	5822823.4	46.1	22.8	TYPE 10	22.8	YES		NEW 26m STEEL POLE CARRYING SINGLE CIRCUIT	YES
48A	48C	POLE REPLACEMENT	1882619.2	5822926.5		19.0	1882602.2	5822924.2	43.7	28.7	TYPE 16	9.7	YES	17.5	POLE REPLACED WITH 32.0m STEEL POLE CARRYING BOTH CIRCUITS.	YES
50	48D	POLE REPLACEMENT	1882733.2	5823057.7		15.2	1882674.5	5823024.5	40.9	26.2	TYPE 16	11.0	YES	67.4	POLE REPLACED WITH 30.0m STEEL POLE CARRYING BOTH CIRCUITS.	YES
48E		NEW POLE					1882707.3	5823102.4	38.9	22.8	TYPE 14	22.8	YES		NEW 26m STEEL POLE CARRYING DOUBLE CIRCUIT	YES
51	48F	POLE REPLACEMENT	1882747.3	5823198.8		17.8	1882744.4	5823199.2	36.6	21.8	TYPE 10	4.0	YES	3.0	NEW 26m STEEL POLE CARRYING SINGLE CIRCUIT. -1.0m ADDED IN TO THE STANDARD 3.2m EMBEDMENT BRINGING THE TOTAL EMBEDMENT TO 4.2m	NO
127A		NEW POLE					1882737.0	5823226.1	36.1	19.4	TYPE 16	19.4	YES		NEW TWIN 23m TP150 HS CONCRETE POLE CARRYING SINGLE CIRCUIT	YES
128	128A	POLE REPLACEMENT	1882762.5	5823495.4		12.6	1882751.3	5823492.6	33.4	11.2	TYPE 16	-1.4	YES	3.1	POLE REPLACED WITH 18.5m TP150 CONCRETE HS POLE AND INSTALL SECOND CIRCUIT. NEW POLE MOVED 3m TOWARDS HA1 TO ALLOW FOR INSTALLATION WORKS.	YES
113A		POLE REMOVAL	1880499.0	5821057.8		16.0						-18.0			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 16m	NO
114		POLE REMOVAL	1880514.9	5821127.7		16.3						-16.3			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 16.3m	NO
115		POLE REMOVAL	1880643.9	5821373.2		12.3						-12.3			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 12.3m	NO
116		POLE REMOVAL	1880721.2	5821559.1		15.5						-15.5			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 15.5m	NO
117		POLE REMOVAL	1880796.8	5821757.8		13.1						-13.1			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 13.1m	NO
118		POLE REMOVAL	1881085.7	5822012.8		31.0						-31.0			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 31m	NO

POLE NO	NEW POLE ID	PROPOSED WORK ON POLE	EXISTING POLE COORDINATES		EXISTING POLE HEIGHT ABOVE GL (m)	NEW POLE COORDINATES			NEW POLE HEIGHT ABOVE GL (m)	TYPE	CHANGE IN HEIGHT (m)	STRUCTURE HEIGHT FULLY COMPLIES WITH TAURANGA AIRPORT HEIGHT RESTRICTIONS	RADIAL DISTANCE FROM EXISTING STRUCTURE WHERE APPLICABLE (m)	DESCRIPTION OF WORKS	REQUIRE DEEP INSULATED EARTH
			X	Y		X	Y	Z							
119		POLE REMOVAL	1881398.0	5822310.5	13.1						-13.1			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 13.1m	NO
120		POLE REMOVAL	1881570.1	5822419.6	19.2						-19.2			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 19.2m	NO
121		POLE REMOVAL	1881770.7	5822544.3	16.4						-16.4			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 16.4m	NO
122		POLE REMOVAL	1881894.8	5822647.4	15.0						-15.0			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 15m	NO
123		POLE REMOVAL	1882071.4	5822753.4	15.0						-15.0			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 15m	NO
124		POLE REMOVAL	1882237.7	5822837.7	15.4						-15.4			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 15.4m	NO
125		POLE REMOVAL	1882384.4	5822936.4	13.7						-13.7			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 13.7m	NO
126		POLE REMOVAL	1882552.0	5823035.2	15.6						-15.6			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 15.6m	NO
127		POLE REMOVAL	1882649.4	5823258.4	16.1						-16.1			EXISTING POLE TO BE REMOVED. EXISTING HEIGHT ABOVE GL = 16.1m	NO

NOTE:
1 SHADED CELLS INDICATE EXISTING STRUCTURES REMAINING UNCHANGED.
2 THE HEIGHTS SPECIFIED FOR 33C AND 33D ARE TO THE CONDUCTOR ATTACHMENT POINT AT THE TOP OF THE VERTICAL LINE POST (VLP) INSULATOR FOR THE MID PHASE



Appendix C

Earthworks Schedule

HAI-MTM Deviation poles 28-128, anticipated earthworks volumes Rev 006 as at 14-09-17

STRUCTURE NUMBER	Line	DESCRIPTION OF STRUCTURE	FOUNDATION INSTALL (m³)	FOUNDATION REMOVE (m³)	ACCESS (m³)	PAD FOR RIG/Crane (m³)	TOTAL DISTURBED VOLUME OF SOIL (m³)	WITHIN 20M OF COASTAL MARINE AREA (m²)	WITHIN SPECIAL ECOLOGICAL AREA (m²)	CONTAMINATED SOILS (m³)	GROUNDWATER ANTICIPATED (m³)	EARTHWORKS ON SLOPE >15° AND <35° (m³)	COMMENTS	ACCESS COMMENTS
28	B Line	TYPE 18 SPECIAL	0	30	0	0	30						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 2M (X2 POLES)	
28A	B Line	TWIN TYPE 10 SPECIAL	40	0	0	0	40						HAVE ASSUMED 8M DEEP 1.8M DIAMETER LINED PILES (X2 POLES)	
28T	B Line	TYPE 10	10	35	0	0	45						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
29	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
29A	B Line	TYPE 14	10		5	0	15						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK A, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH1/3 OF TRACK NEEDING WORK, 25 X 3 X 0.3 X 1/3 = 5 CUBIC METRES
30	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
30A	B Line	TYPE 14	10		5	0	15						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK B, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH1/3 OF TRACK NEEDING WORK, 25 X 3 X 0.3 X 1/3 = 5 CUBIC METRES
31	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
31A	B Line	TYPE 14	10		5	0	15						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK C, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH1/3 OF TRACK NEEDING WORK, 25 X 3 X 0.2 X 1/3 = 5 CUBIC METRES
32	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
32A	B Line	TYPE 14	10	0	5	0	15						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH1/3 OF TRACK NEEDING WORK, 25 X 3 X 0.2 X 1/3 = 5 CUBIC METRES
33A	B Line	TYPE14 SPECIAL	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
33B	B Line	TYPE 10	10	0	5	0	15						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK D, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH1/3 OF TRACK NEEDING WORK, 25 X 3 X 0.2 X 1/3 = 5 CUBIC METRES
33C	B Line	BESPOKE ESTUARY CROSSING POLE	75	0	0	25	100	100			75		HAVE ASSUMED 16M DEEP 2.4M DIAMETER LINED PILES	
33D	B Line	BESPOKE ESTUARY CROSSING POLE	75	0	150	25	250				75		HAVE ASSUMED 16M DEEP 2.4M DIAMETER LINED PILES	TRACK E, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 420M LONG WITH1/5 OF TRACK NEEDING WORK, 420 X 3 X 0.2 X 1/5 = 50 CUBIC METRES
33E	B Line	TYPE 10	20	0	75	15	110					110	HAVE ASSUMED 8M DEEP 1.8M DIAMETER LINED PILES	TRACK F, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 75M LONG WITH ALL OF TRACK NEEDING WORK, 75 X 3 X 0.2 X 1 = 45 CUBIC METRES
38A	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
39	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
39A	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
40A	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
41A	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
42A	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
43A	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
43B	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
43C	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
44B	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
45A	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
47	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
47A	B Line	TYPE 14	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
48	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
48A	B Line	TYPE 10	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
48B	B Line	TYPE 10	10	0	0	0	10						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
48C	B Line	TYPE 14	10	0	5	0	15			15			HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK G, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH 1/5 OF TRACK NEEDING WORK, 25 X 3 X 0.2 X 1 = 5 CUBIC METRES
48D	B Line	TYPE 14	10	0	5	0	15			15			HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK H, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH1/3 OF TRACK NEEDING WORK, 25 X 3 X 0.2 X 1/3 = 5 CUBIC METRES
48E	B Line	TYPE 14	10	0	5	0	15			15			HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	TRACK I, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 25M LONG WITH1/3 OF TRACK NEEDING WORK, 25 X 3 X 0.2 X 1/3 = 5 CUBIC METRES
127A	A Line	TYPE 16	20	0	45	0	65			65			HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES(X 2 POLES)	TRACK J, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 100M LONG WITH 3/4 OF TRACK NEEDING WORK, 100 X 3 X 0.2 X 3/4 = 45 CUBIC METRES
48F	B Line	TYPE 10	10	0	0	0	10			10			HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES	
Midspan wiring site 127A - 128A	A Line				20	25	45		45					Both earthworks for wiring pad and access to it may be located within SEA77 area, and so for conservation have been assumed to be within it
128	A Line	TYPE 15	0	25	0	0	25						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
128A	A Line	TYPE 16 (TYPE 10)	20	0	45	0	65						HAVE ASSUMED 5M DEEP 1.5M DIAMETER LINED PILES(X 2 POLES)	TRACK K, REQUIRED ESTIMATED TO BE 3M WIDE X 0.2M DEEP X 300M LONG WITH 1/4 OF TRACK NEEDING WORK, 300 X 3 X 0.2 X 1/4 = 45 CUBIC METRES
113A	A Line	TYPE 12 DELTA	0	15	0	0	15						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 2M	
114	A Line	TYPE 12 DELTA	0	15	0	0	15						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 2M	
115	A Line	TYPE 15	0	25	0	0	25						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
116	A Line	TYPE 15	0	25	0	0	25						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
117	A Line	TYPE 15	0	25	0	0	25						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
118	A Line	TOWER	0	0	0	0	0				within estuary		METHODOLOGY AND VOLUMES OF DISTURBANCE TO BE CONFIRMED	TO BE CONFIRMED
119	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
120	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
121	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
122	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
123	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
124	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
125	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
126	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
127	A Line	TYPE 15	0	25	0	0	25			25			FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 4M, DIAMETER 2M (X2 POLES)	
48A	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
50	B Line	TYPE 10 GUYED	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
51	B Line	TYPE14 SPECIAL	0	35	0	0	35						FOR REMOVAL HAVE CONSERVATIVELY ASSUMED DEPTH 5M, DIAMETER 3M	
GRAND TOTAL VOLUME			480	805	375	90	1750	100	45	345	150	110		

Please Note : Foundation removal volumes are conservative for B line (uncontaminated) structures and may reduce by up to circa 150 cubic m	
total volume within contaminated land	cubic m
	345
total volume within 20m of CMA	100
total volume on slopes greater than 15 degrees	110
total volume other (none of the above)	1195
GRAND TOTAL VOLUME	1750

Appendix D

Certificates of Title



COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952

Search Copy




R. W. Muir
Registrar-General
of Land

Identifier

393312

Land Registration District

South Auckland

Date Issued

20 November 2007

Prior References

SAPR61C/715

Identifier**393312**

Estate Fee Simple
Area 6226 square metres more or less
Legal Description Tumatanui 2B3A Block

Proprietors

Anne Taute as to a 0.0003 share
Barbara Hineroa Luke (also known as Hineroa Maha) as to a 0.0755 share
Erina Helen Norling as to a 0.0019 share
Hemi James Taute as to a 0.0002 share
Hohi Tahere (also known as Hohi Tahere Ngatai) as to a 0.0056 share
Howard Ohomairangi Taute as to a 0.0003 share
James Frances Rolleston as to a 0.0022 share
Jessie Mererahi Ross as to a 0.0416 share
John Tairi Taute as to a 0.0003 share
Lynette Gillespie as to a 0.1750 share
Margaret Hinera Rolleston as to a 0.0022 share
Mavis Raerino (also known as Mavis Raerino Harrison) as to a 0.0089 share
Mitai George Rolleston as to a 0.0021 share
Naumai Matera Ngatai for life or until remarriage with remainder to Rewakura Rachael Ngatai, Kaatauawhi Sharmayne Ngatai, Wiremu Joseph Ngatai, Michael Ngatai, Maria Ngatai, April Patricia Ngatai, Robert Te Uka Ngatai, Harry Ngatai, Linda Te Riunui Ngatai and Josephine Ngawiki as to a 0.0024 share
Pauline Taute as to a 0.0003 share
Pirihira Pettifer as to a 0.0416 share
Rahuikura Ngatai (also known as Rahuikura Reweti) as to a 0.0228 share
Rangikawehea Sinclair Paul as to a 0.0019 share
Shane Pakihana Ngatai and Vaughn Waimaria Ngatai as trustees as to a 0.0023 share
Ruhi Tumoiri as to a 0.0035 share
Taikamaimate Walker as to a 0.0007 share
Taoho Walker as to a 0.0007 share
Te Aorere Numanga as to a 0.0024 share
Te Hariru Ngatai as to a 0.0406 share
Toni Ngaone Cummins as to a 0.0022 share
Tui Maria Rolleston as to a 0.0021 share
Lesley Ann Ngatai and Stephen Craig Ngatai as trustees as to a 0.0023 share
Wikitoria Margaret Hendin as to a 0.0003 share
William Waitoa Taute as to a 0.0003 share
Willona Waimarie Taute as to a 0.0003 share
Tony Ngatai Hawkes, Pearl Puanani Webster Cooper, Alana Rangimarie Webster, Teowai Jasmine Webster, Ngahihi O Tera Ngatai-Wepiha, Tumanako Victor Farrell and Constance Merepaora Ngahihiotera Webster (also known as Connie Farrell) (also known as Connie Webster) as trustees of the Waata Monikoura Wepiha Whanau Trust as to a 0.0117 share
Colleen Margaret Ross, Deryk Benjamin Ross, Donald Christopher Ross and Vivienne Eliot as trustees as to a 0.0416 share
Te Aorere Placid Briggs, Enoke Kraige Gear, Joanne Atawhai Gear, Tilly Ngahuia Briggs and Terrence Tamati (also known as Terrence Gear) as trustees as to a 0.0109 share
Erina Ollette Maui, Taupuhi Jay Maui, Taihako Cohra Jay Maui and Hendrick Hoani Hodge as responsible trustees jointly, no survivorship as to a 0.0018 share
Elisa Aroha Enoke, Pamela Te Anu Enoke, Geraldine Gerry Heeney, Basil Heketa Enoke and Barry Te Whanake Enoke as responsible trustees jointly no survivorship as to a 0.0056 share
Hakaraia Whetu Moke, John Luke Daniels, Orini Ngawai Kaipara, Shirley-Ann Rita Te Pou and Waru Te Riini Hemopo-Te Pou as responsible trustees jointly, no survivorship as to a 0.0078 share

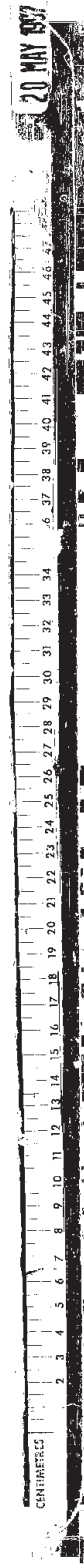
Identifier **393312**

Interests

The proprietors listed above hold the shares out of a total of 0.5222 shares.

Subject to Section 304 Te Ture Whenua Maori Act 1993

7587570.1 Status Order determining the status of the within land to be Maori Freehold Land - 24.10.2007 at 9:00 am

[illegible]



COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952




R. W. Muir
Registrar-General
of Land

Search Copy

Identifier 450875
Land Registration District South Auckland
Date Issued 14 October 2008

Prior References

450874

Estate	Fee Simple
Area	2.8378 hectares more or less
Legal Description	Part Ohuki No 2 D Block

Proprietors

Tio Faulkner, Hayden James Henry, Enid Ratahi-Pryor, Christopher George Stokes and Titihuia Carolyn Ririnui as trustees

Interests

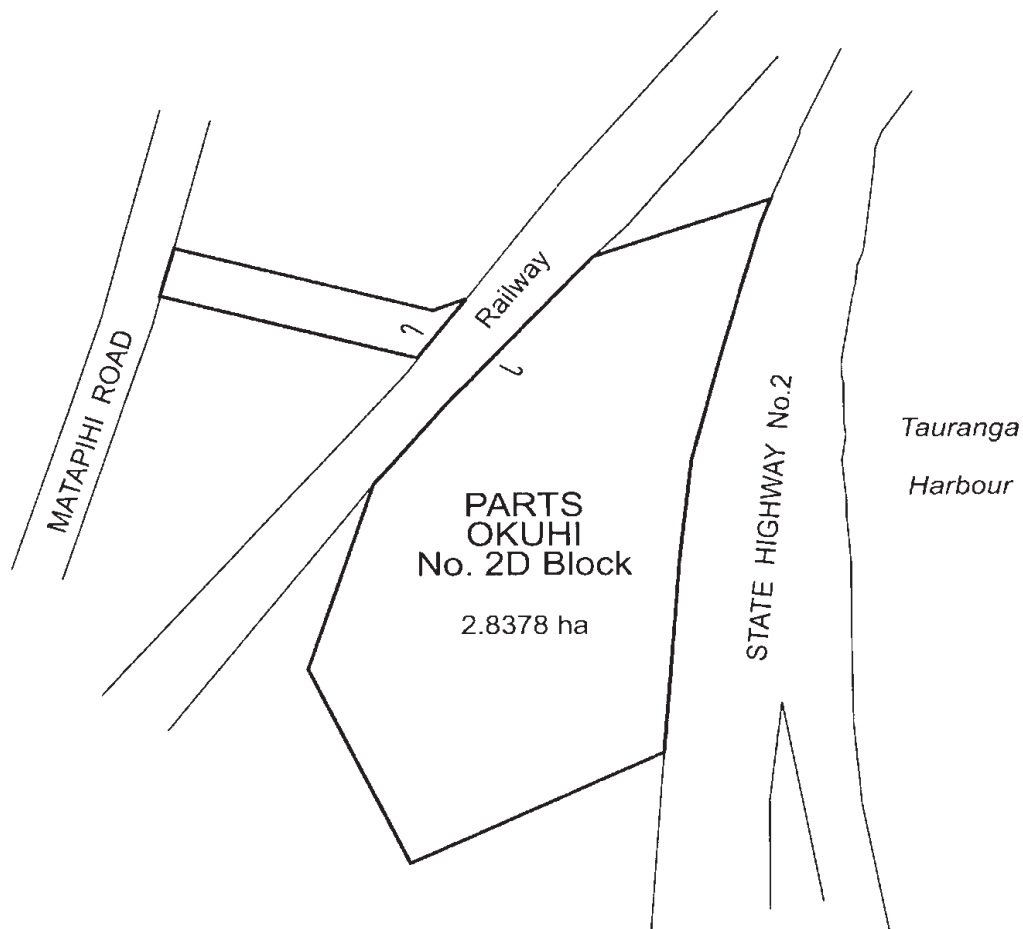
7966736.5 Status Order determining the status of the within land to be Maori Freehold Land - 14.10.2008 at 9:00 am

Title Diagram CT 450875

Cpy - 01/01, Pgs - 001, 29/10/08, 11:39



DocID: 511981863





COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952




R. W. Muir
Registrar-General
of Land

Search Copy

Identifier 456072
Land Registration District South Auckland
Date Issued 18 November 2008

Prior References

456071

Estate	Fee Simple
Area	3237 square metres more or less
Legal Description	Part Te Ngaio No.1 Block

Proprietors

Tio Faulkner, Hayden James Henry, Enid Ratahi-Pryor, Christopher George Stokes and Titihuia Carolyn Ririnui as trustees

Interests

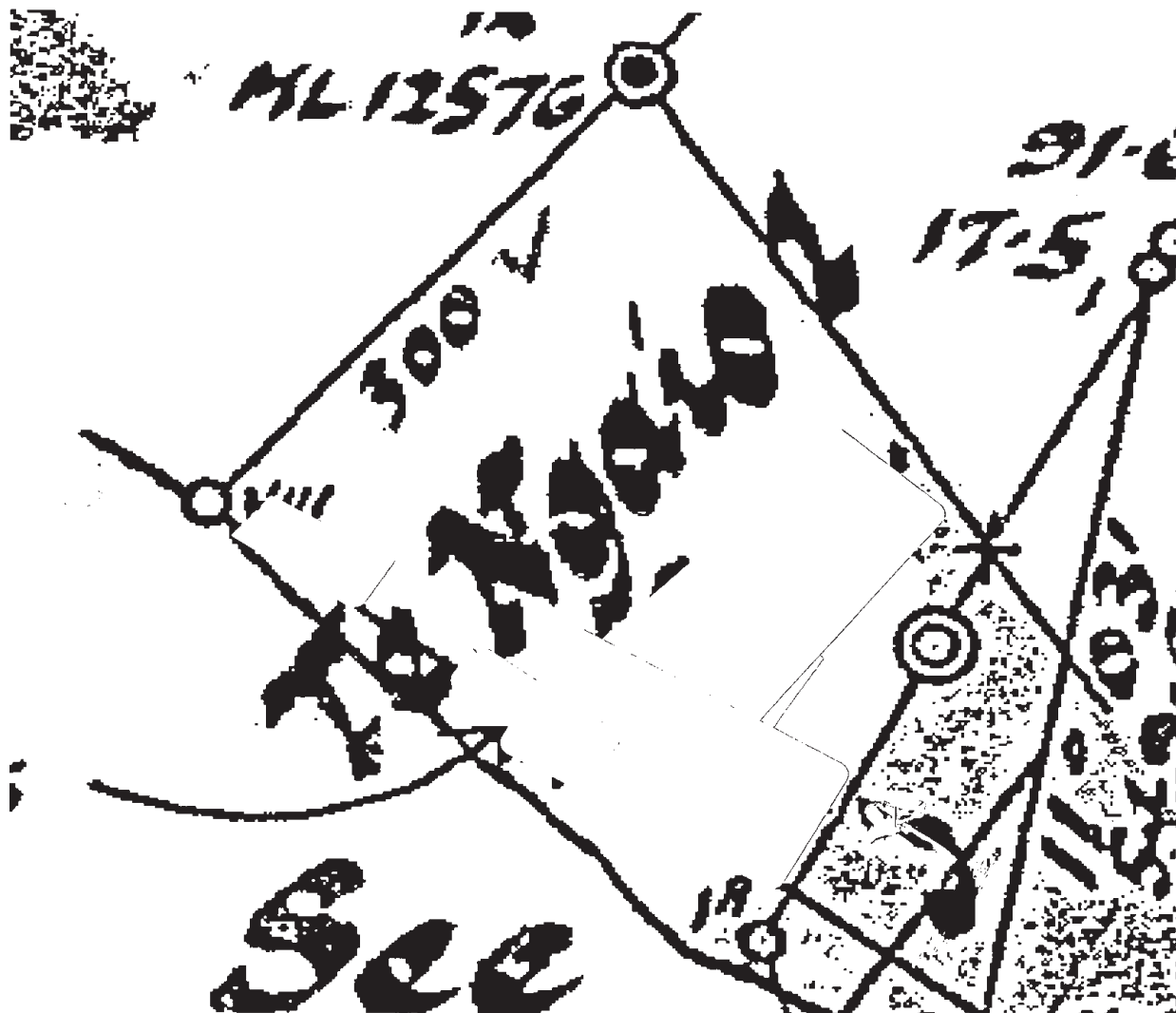
7999159.3 Status Order determining the status of the within land to be Maori Freehold Land - 18.11.2008 at 9:00 am

Title Diagram 456071

Cpy - 01/01.Pgs - 001.26/11/08.17.18



DateID: 511944103





COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952



R. W. Muir
Registrar-General
of Land

Search Copy

Identifier SA53C/196
Land Registration District South Auckland
Date Issued 20 June 1994

Prior References

SA50A/805

Estate Fee Simple
Area 46.7413 hectares more or less
Legal Description Part Ngai Tukairangi No 2 Block

Proprietors

Riri Ellis also known as Riri Te Whara Ellis, Neil Te Kani also known as Te Timatanga Neil Te Kani, Ngawa Hall, Peter Te Ratahi Cross, Carlo Jason Ellis, Joshua Nathan Gear and Helen Riria Te Kani as responsible trustees

Interests

Subject to Section 438 Maori Affairs Act 1953

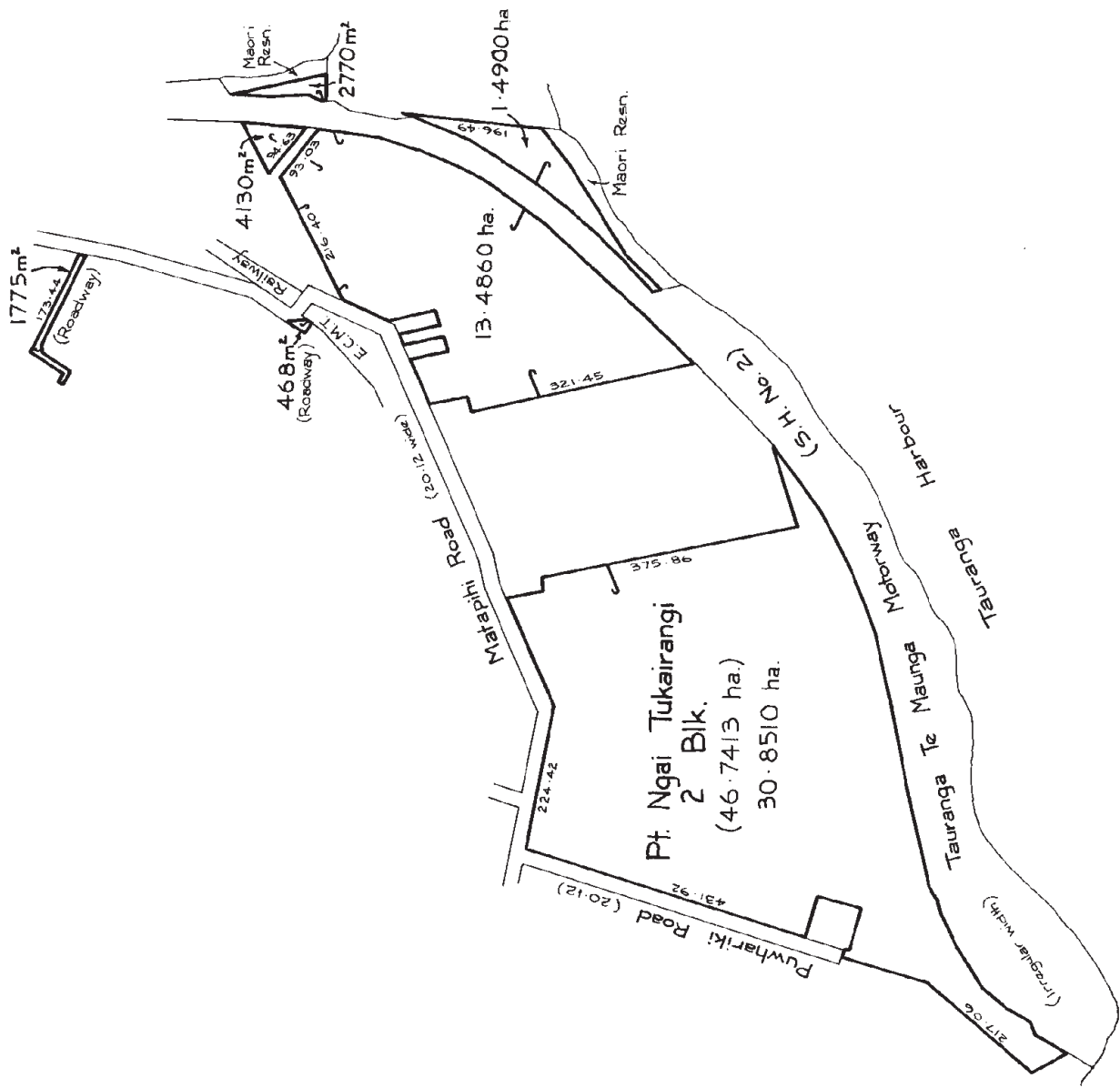
Subject to laying out a roadway right over part pursuant to Court Order B055727.3 - 29.11.1991 at 11.25 am

5624320.1 Notice pursuant to Section 94C Transit New Zealand Act 1989 declaring the adjoining State Highway No. 29 to be a limited access road - 17.6.2003 at 9:00 am

8152578.2 Status Order determining the status of the within land to be Maori Freehold Land - 5.5.2009 at 9:00 am

Identifier

SA53C/196





COMPUTER FREEHOLD REGISTER UNDER LAND TRANSFER ACT 1952




R. W. Muir
Registrar-General
of Land

Search Copy

Identifier SA62C/83
Land Registration District South Auckland
Date Issued 17 October 1997

Prior References

SA25C/1407 SA25C/1408

Estate	Fee Simple
Area	4.1064 hectares more or less
Legal Description	Lot 2 Deposited Plan South Auckland 78629

Proprietors

Riri Te Whara Ellis, Te Timatanga Neil Te Kani, Ngawha Hall, Peter Cross, Carlo Jason Ellis, Joshua Nathan Gear and Helen Riiria Tekani

Interests

5624320.1 Notice pursuant to Section 94C Transit New Zealand Act 1989 declaring the adjoining State Highway No. 29 to be a limited access road - 17.6.2003 at 9:00 am

10704262.17 Mortgage to ANZ Bank New Zealand Limited - 24.2.2017 at 8:21 am

[illegible]