

## Crown Pastoral Land Tenure Review

Lease name: Mt OLYMPUS

Lease number: PC 050

# Due Diligence Report (including Status Report) - Part 4

This report and attachments results from a pre-Tenure Review assessment of the pastoral lease for the purpose of confirming land available for Tenure Review and any issues, rights or obligations attaching to it. The information is gathered from files and other sources available to the LINZ contractor.

Part of the information relates to research on the status of the land, resulting in a Status Report that is signed off by a LINZ approving officer. The remainder of the information is not analysed for relevancy or possible action until required, and LINZ does not guarantee its accuracy or completeness as presented.

The report attached is released under the Official Information Act 1982.

# Certificate of Alteration under Section 113, Land Act, 1948

IN THE MATTER of the Land Transfer Act, 1952, and the Land Act, 1948,

and



In the matter of leace [licence] from His Majesty the King to ROBERT WATLACE FIGHTMAN of Mount Hutt, Farmer.

of Ecction Run 102, , Block Winterslow,
Ashburton County District, registered as Pastoral Licence 554, Canterbury Land Registry.

Commissioner of Crown Lands.

THIS is to certify	that on the First day of January , 1954, the area of
land included in the	above-mentioned leave-[licence] was altered by the incorporation therein [exclusion
therefrom of the land	described in the Schedule hereto and shown red in outline on the plan endorsed hereon.

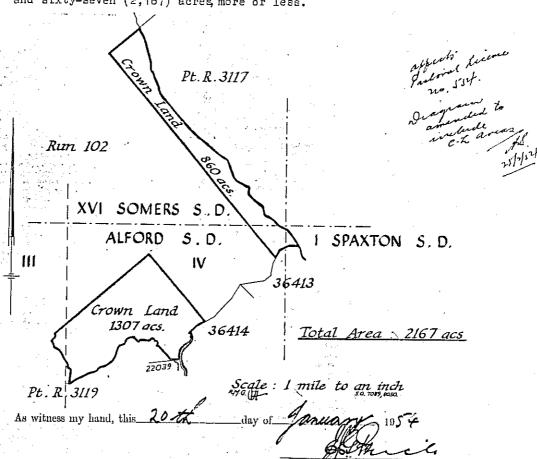
Consequent on the alteration in area aforesaid, the rental value and annual rent [purchase price and half-yearly instalments] were altered on the same date to the following amounts:—

Rental v	alue :	<u>£ 5,000</u>	:	Annual	rent:	£ 250 :	<u>• : • • </u>
Purchase	<del>price (</del>	exclusive c	of amounts a	heady p	aid)	<u> </u>	
ifali-year	ly inst	alment (tei	vm :	ye	ars): .	<u> </u>	

#### SCHEDULE

(Description and plan of land incorporated or excluded)

Crown land being formerly Part Reserves 3117 and 3119 situated in Block XVI Somers Survey District, Blocks III and IV Alford Survey District, and Block I Spaxton Survey District containing two thousand one hundred and sixty-seven (2,167) acres, more or less.



ed):

## "RELEASED UNDER THE OFFICIAL INFORMATION ACT" RELEASED UNDER THE OFFICIAL INFORMATION ACT

APPENDIX B – LAND STATUS REPORT (Certified Correct by Chief Surveyor)

### LAND STATUS REPORT

### for Tenure Review

RYTON STATION (MT OLYMPUS)

Prepared by Don McGregor, McGregor Property Services Limited for and on behalf of Q.V. Valuations

March 2002

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CHRISTCHURCH OFFICE

APPENDIX B1

Project Number: QVV 366

This report has been prepared on the instruction of Land Information New Zealand in terms of Contract No: 50272 (as yet undated) and is undertaken for the purposes of the Crown Pastoral Land Act 1998.

LAND STATUS REPORT for Ryton Station (Mt Olympus) Tenure LIPS Ref: 12755				
Review				
Property 1 of 1				

Land District	Canterbury	
Legal Description	Run 179, situated in Blocks X XI XIV and XV, Harper and II III VI and VII, Coleridge Survey Districts.	
Area	5058.5705 hectares.	
Status	Crown land subject to the Land Act 1948.	
Instrument of title / lease	Computer Interest Register (Pastoral Lease) CB529/90 pursuant to Sect 66 and registered under Section 83 of the Land Act 1948 as varied by Memorandum of Renewal 749840.1.	
Encumbrances	Subject to:	
	<ol> <li>Part IVA of the Conservation Act 1987, upon disposition.</li> <li>677166.1 Land Improvement Agreement pursuant to Section 30A Soil Conservation and Rivers Control Act 1941.</li> </ol>	
Statute	Land Act 1948 and Crown Pastoral Land Act 1998.	

Data Correct as at	5 March 2002.
[Certification Attached]	Yes
Prepared by	Don McGregor
Crown Accredited Supplier	McGregor Property Services Limited, Christchurch for and
	on behalf of Q.V. Valuations

Certification:

Pursuant to section 11(1)(I) of the Survey Act 1986 and acting under delegated authority of the Surveyor – General pursuant to section 11(2) of that act, I hereby certify that the land described above is Crown Land subject to the Land Act 1948.

R. Noulles

Date: 28/3/2002

R Moulton, Chief Surveyor (Canterbury Land District) Land Information New Zealand, Christchurch

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### **CERTIFICATION**

Report to the Chief Surveyor, Christchurch, for certification of Status Investigation for RYTON STATION (MT OLYMPUS) Pastoral Lease Tenure Review.

- 1. I, Donald McGregor of McGregor Property Services Limited, acting for and on behalf of QV Valuations, certify that the status report enclosed for certification is in order for signature.
- 2. In giving this certification I, Donald McGregor of McGregor Property Services Limited, acting for and on behalf of Q.V. Valuations, undertake that the status report has been completed in compliance with all relevant policy instructions and in particular, OSG Standard 1999/05 and the Regulatory Chiefs' Land Status Investigations Guidelines 1999/01.

D McGragor

McGregor Property Services Limited

Accredited Supplier

5 March 2002

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### **COMPUTER INTEREST REGISTER UNDER LAND TRANSFER ACT 1952**

### Historical Search Copy



Identifier

CB529/90

Land Registration District Canterbury

**Date Registered** 

22 May 1958 01:36 pm

Type

Lease under s83 Land Act 1948

Arca

5058.5705 hectares more or less

Term

thirty three years commencing on the first day of July 1954 and renewed for further 33 years commencing on 1.7.1987

Legal Description Run 179

**Original Proprietors** 

Ryton Station Limited

#### Interests

504624.1 Variation of the terms of the within Lease - 28.8.1984 at 9.02 am

677166.1 Land Improvement Agreement pursuant to Section 30A Soil Conservation and Rivers Control Act 1941 -27.4.1987 at 11.18 am

749840.1 Renewal of within Lease for 33 years commencing on 1.7.1987 and variation of terms hereof - 5.7.1988 at 11.13 am

988162.2 Mortgage to Trust Bank Canterbury Limited - 13.4.1992 at 11.25 am

"RELEASED UNDER THE OFFICIAL INFORMATION ACT" RELEASED UNDER THE OFFICIAL INFORMATION ACT 'Not Registered under Land Transfe: Act.—Registered under Section 83. The Register Land, Vol. 529 fol. 90. Land Act, 1948 Patroal Run Licence No. 476 NEW ZEALAND ed as a Boscowi of ferror Britany for Breed . CANTERBURY LAND DISTRICT · Pastoral Lease of Pastoral Land under the Land Act, 1948 No. P.50 Mar ob ., one thensami nine hundred and fifty-four day of This Deed, nuch the first PARTY THE RYPH (who, with his heirs and successors, is hereinafter referred to as "the Leaver"), of the one part, and HER CHEST after referred to as "the Lesser", of the one part, and
of that it is the beninier of New Zenland,
who, with he executor, adjunistrator, and primited argine, affect
is hereinafter referred to as "the Lesser", he had properly the PAPALATIAN
that, in consideration of the rest hereinafter reserved, and of the concentrate,
conditions, and agreements berein contained as implied and on the part of the
Lesser to be paid, observed, and performed, the Lesser doth hereby denic and
lesser unto the Lesser All that piece or pared of Lord containing by
administratorium two lyst thousand five hundred (12,500) as res
administratorium annual containing the subject of the containing by
administratorium two lyst thousand five hundred (12,500) as res
administration in the Lord District of Canterbury

The Lord Contained in Blocks X. H. VIV. IV Hence Burney. IAH RODERICK COLERIDS: MURCHISON, of Loke Coloridge,

Sheepfarmer (2/15ths),

PONALD SINCLAIR MURCHISON of Christchurch, Solicitor
(2/15ths) JAMPS DEAMS of Homobush, farmer and MORRET JOHN SINCLAIR MUCHELLING THE BENDOIS, Clerk (jointly inter so 2/15thm). JOHN NOLAN MURCHISON of Lake Coloridge, Sheepfarmer, (1/20ths) Run 179, situated in Blocks X, II, XIV, IV Harper Survey District and Blocks II, III, VI, VII Coleridge Survey District MICHAEL MODERICK NURCHISON of Lake Coloridge, Shoopfarmer (3/20thm) (bereinafter referred to as "the said land"), as the same is more particularly delineated in the plan drawn berein and therein coloured red in outline; together with the rights, ensements, and appartenances thereto belonging. TO HULD the said premiers intended to be benely demised unto the lesser for the term of thirty-three years, commercing on the first day of July one thousand also hundred and TITY-Tour together with the period between the date of this lesse and the aforesaid lirst day of July MEIL SUCCIATE AURCHISON of Christomech, Solicitor (1/10th) MALTER ROBERT FCCALLUM of Christchurch, Public Accountant and CHRISTINA Echanical Community of Christchurch, Midow (jointly inter se 3/15ths) by a deposit of

(I ) (the receipt of which sum is hereby acknowledged) and thereafter

by (I ) palferently instalments of

pounds and

pence (I : ) on the 1st day of January and

[st.day of July in much year in, the same manner as real. served as the times and in the manner hereindefine named in that behalf; and also will pay and discharge all sales, taxes, will bened, or payable in reject of the outs had or any part or justs thereof shring the soil tena. 1. THAT the Laure will fully and proceedly pay the cent hereinbefore error managers, and outgoings whateverse that new are no hereafter may be necessarily in, and seignings white ne will within one your after the date of this from take up his professes on the mid land, and thermater throughout the term of the from will profit creatmentaly on the anil hand. 3. THAT the Laurer will hold and has the said land down file for his own use and brought and will not transfer, assign, sublet, martings, charge, or part with population of the said land of virlout the previous approval of the Land Settlement Board: Provided that such approval will not be numberly in the case of a nonegype to the Cason or to a Department of State. يتم مراكم عندًا لعدا مرَّ من وحدا d. THAT the Louve will at all times lares the mid land differetly and in a hundredite manner occurring to the rules of good bendenity and will not in any way commit waste. 8. THAT the Lesses will throughout the term of his lesses to the milection of the Commissioner of Crown Lands for the Land District of to Commissioner 7) out and tries all him featons and hedges, that and herp close the mid land of all sections words, and will comply strictly with the previous (hareinafles referred t us of the Nuzione Words Act, 1975, 6. THAT the Lorent will beep the mid hand fron front wild extends, subbits, and other versule, and pracraily comply with the provisions of the Rabbit Nedescon Acc., 1926. 7. THAT the Leases will thus and that from wach and heep open all creeks, drains, diction, and watercourses upon the said limb, including any drains or diction a both may be constructed by the animinant after the commencement of the term of the hase; and will not an any time without the prior consent of the Commissionar after the charact of any such creek or watercourse or stop or direct water flowing therein. 8. THAT the Leave will at all times desire the mid term repair and maintain and trop in greal unbatantial repair, order, and confitien all improvements belonging to the Court in analysis in the control of the Court in the mid land, and will not, without the prior written assumed of the Courtlesoner, d the the resident paries a proper a single but serve them or may part of them. · 6. THAT the Learn will issue all building blanging to the Crown (including streammental included before winds are delaying the provider frontly are at hereafter exected on the their full instantion rated will pay all providers followed and exercise policy and deposit the Commissioner and will pay all providers followed and exercise policy and deposit the followed policy and the followed by the Commissioner every such policy and, not hier than the followed of the day on which any such pressure bearings payable, the receipt for that providers. 10. THAT the Lame will not throughout the term of the lease without the prior research of the Commissioner, which consent may be given on such because and sunctions the increased they need to be a proper that the prior of the lease proper the destructions and that he will throughout the term of the lease proper the destructions are made timber, two, or back galess the Commissioner otherwise approximations, two, or back galess the Commissioner otherwise approximations. Provided that the comment of the Commissioner as aforemed that out be provider uny with timbes or true is required for any agricultural, posteral, beautistic, encloseling, or building purp mil land not where the timber or true has been pleated by the La THAT the Lesses shall not, enterpt for the purpose of complying with any of the previous of the Noorlis Turvet Act, 1945, bern any tweeth, even, or grow on the said land, not premit any partle from any the said land to be before, unloss is rister case to shall have obtained the prior convent in critics of the Commissioner, which wewent may be given relificate to such terms distinct on the Commissioner may deem necessary. 11. THAT the Las re and employem of the Department of Internal Affeirs shall at all time r any adjoining last in infected with docs, wild greate, wild pigs, opened nt of faternal Affairs shall as all times have a sight of ingrous, express, and regrows arer the land comprised in this lesses for the purpose of determining is dost, wild grate, wild pige, openants, or other animals which the soid Department is charged with the duty of antercinating or controlling, or far the bother such hand or any adjusting land suppose of destroying any such autmate: Provided that such afficers and employees in the perferences of the sold detice shall at all times avoid under climatedware of the Larve's stock RD it is hearly agreed and declared by and between the Leaver and the Leaver:-(e) IHAI the Lames shall have the exclusive right of pasturage over the said had, but shall have no right to the soil (B) THAT the Losse shall have no right, tile, or claim whatenever to any minerals (within the meaning of the Lord Art, 1913) on or under the review of the soid of the mid hand, and all rock minerals are received to His Majory together with a free right of way over the said had in Lover of the Commissioner or of any paymen authorized by him and of all persons havely magned in the working, extraction, or removal of any mineral on or endors of the mineral of the force of the payment to the Losses of compensation for all damage done to improvements on the said had belonging to the Losses in the working, extraction, or removal of any mech minerals: Provided that there, that he as right of way ever, or right to work, extract, or creave any entered from, any part of the mid land which is for the time bring under crop or an almost difficult for york, parket, or hard, vioryand, namery, or plantation, or within 100 fairland any building: 220112770032. tied also that the Louise may, with the prior course in writing of the Commissioner, which course may be given subject to such resolutions on the Commissioner thinks th, see any scale for any agricultural, posteroid, resoluting, or building purpose on the said had, but not orthogonise. Parrided also that the Louis (f) THAT upon the espiration by effection of time of the term briefs granted and thereafter at the application of each securities term be granted to the Leane the original Leaner shall have a right to obtain, in accordance with the provisions of ortion 66 (1) of the Leaner Act, 1944, a new lease of the land briefs based at a read to be determined in the measure presented by Part VIII of the mid Act for a term of thirty-three years computed from the expiration of the term hereby granted and subject to the same coordants and provisions as this kees, including this present previous for the process thereof and all provisions acciding as it relation thereto.

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(6) THAT the Louise shall have no right of arguing the fee-simple of the said hard.

for TRIAT the Lower may, with the prior consent in writing of the Commissioner gives

- (i) Caltinute any portion of the mid-had for the purpose of growing winter first for the stark depostured the [3] Dop such area of the said had as is sufficient for the sea of bissoulf and family and his employmen;
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- Bel Clear may purties of the sold head by felling and burning beat, or serab and new the head so cleared in grown;

(r) Burlow alle be grow any parties of the said level:

محاربطا دمطا أمطته or aboth me the premination of the buthe estimation of the Commissioner,

- (f) THAT if the Learn shall be to New New Newtonian (the said last or if he cannot be found as if he shall profess or fail ar price to comply with the convenants and conditions herein expersion of simplest to the artification of the Land Settlement thand or the Convenience, as the case may be, or make the fail for not has been somethe in the payment of man, water here, or other payments due to the Levier, then the Land Settlement Board may, subject to the provisions of serving 144 of the Land Act, 1345, during the heart is he forest, and that without discharging or releasing the Levier from their fair pays also as according due or for any point breach of any comment or condition of the boson.
- (A) THAT their presents are intented to take effect as a justiced from under the Lond Act, 1919, and the precisions of the axid Act and have shall be hinding in all respects upon the parties bester in the same manner as if such previous had been fully and out herein. n of the mid Art and of the organisms made throughly applicable to such

#### 4000000 H----

(1) That the leases shall be deemed not to have failed to use due care in stocking or to have overatorized solong and the must departured on the said lend does not exceed 1100 sheep (being an increase of ten per cent on the carrying equality on which rent hereinbefore received). But the Correlectoner may, by notice in writing, permit the lesses to departure thereon any graphical to departure of the correlecton or granted shall be subject to revocation or another the shall be subject to revocation or anothers the same time and in particular in the event of a transfer. Any variation consented to by the Correlector shall

-- Li-

semidoloner at any time and in particular in the event of wilness whereast the Consensation of Crown Linds for the Land District of and these presents have also been executed by the said Lesses.	Conterbury	, on behalf of the Lessor, bath hereunto
Bigned by the said Commissioner, on behalf of the Lessor, in		
the presente of		PAH 1-1- C
Huner : 14 miles 100		Albani Lite
Occupation intended office ciero		Commissioner of Creen Lands.
Address: Cilablainance		
Bigned by the share-manufacture in the presence of		
Witness: And les		Jan Musen son
Occupation All to the dies of		Lessee
Address: Blenning thoughthench		
/Jan 194		
Signed by the soid DONALD SINCLAIR MURCHISON ) in the presence of:		- Defruction
-1-		
Witness:		•
Occupation: 15 th selection		
Addross: blacking Churchel		•
Andrews: 100 Andrews		
		1
Signed by the said <u>JANES DEAMS</u> in the prosence of:		James George
Witness: Charles and the	•	$\mathcal{U}^{-}$
70:11-11		
Address Deliciter Election	•	
	•	•
Signed by the said ROBERT JOHN SINCLAIR )	•	· 4. (5.)
MURCHISON in the presence of:	_	- 11 Juni - 1
Witness Francisco		A feet to the second
Tantol 1. de		
Occupation: A. C. Alexander		<i>*</i>
Address the color (houtele ch)		
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signed by the said JOHN FOLAN MURCHISCH ) in the presence of:		John Muncher
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in the presence of:		2015 . Moralt heron
Witness: Therees.		•
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Address Ablailing Church Sch		•

529/90 a maid MEIL SIECLAIR PURCHISON orson But to which Marones Oliching (1: stellunch) patron: But to Charling head ASArosas Atlailin Christehnel 4751 Res. Run 179 Mt. Olympus · 12,500 acs METRIC AREA - 5058.5705 ha Run 256 HARPER S.D COLERIDGE S.D Res.1578 Blue Hill Scale: I mile to an inch

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RELEASED UNDER THE OFFICIAL INFORMATION ACT 496772 the above propriet blunch Wilde Transfer 536342/1 to Ryton Station Limited at Christchurch - 19.3.1985 as demontant 10.59 am. reduced 2/3/1959 at 11.55 an for A.L.R. Mortgage 560769/1 What Mey Zealand - 12.8.1985 at 9.12.44 · Transier 632721 of the intent Mulion to John Wiles Muntin -Munkin both of Lake Clerke Sheep Farmers as Eventer -Etal 21.8.1964 - 1 10.17.2 ~ ARRES ALR miniam 634672 of the Joint share of Walter No.677166/1 Land Improvement Agreement Robert - ha Callum and Christina - ha Lannan Guthrie under Section 30A of the Soil to the said Christina In Laman Guthard as Conservation and Rivers Control Act 1941 - 27.4.1987 at 11.18am Survivor Contend 15/9/1964 at 2.41 pm Transfer 634673 of her Share Christina In Leman for A.L.R. Guthrie To the said Christina in Leman Gathrie No. 749840/1 Renewal of within Lease for Saw Robert Gardiner Guthrie of Tunedin Shipping 33 years commencing on 1.7.1987 and manager and Jack Brabagon manis of Prebleto variation of terms hereof - 5.7.1988 at 11.13am Janes - 15/9/1964 at 2.46 pm Lando wards of the share acquired to for A.L.R. enode Roberth huchian to the Mortgage 988162/2 to Trust Bank Canterbury . Comes Rodericos de Limited - 13.4.1992 at 11. tras in common in apper and 739598 of the le San Robert Transco While and gock 7395984-06 - 20/1/18/8 9.45 Brit to the mid to de, it abouter . 15-9-1919 aboli 40 THIS REPRODUCTION ON A REDUCE AGAINMENT OF THE ORIGINAL REGISTER FOR THE PURPOSES CONGINAL REGISTER FOR THE PURPOSES CONTRACTOR LAND THAN SEER ACT 1952. LAND & DEMOS 22 NAY 1955 1-361 No. 504624/1 Variation of the terms of the within lease - 28.8.1984 at 9.02 a.m.

for A.L.R.

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## "RELEASED UNDER THE OFFICIAL INFORMATION ACT" RELEASED UNDER THE OFFICIAL INFORMATION ACT

MEMORANDUM OF RENEWAL

HER MAJESTY THE QUEEN

Lessor

RYTON STATION LIMITED

Lessee

Particulars entered in the Register on date and at the time recorded below

District
Assistant Land Register hal

MWO\_0021024

ASST. LAND REGISTRAR

PARTICULARS ENTERED IN REGIST LAND REGISTRY CANTERBURY

### "RELEASED UNDER THE OFFICIAL INFORMATION ACT"

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IN THE MATTER of the Land Transfer Act 1952 and the Land Act 1948

AND

IN THE MATTER of Pastoral Lease P50
registered in Volume 529, folio 90
Canterbury Land Registry, from
HER MAJESTY THE QUEEN to RYTON
STATION LIMITED at Christchurch

Pursuant to Section 170 of the Land Act 1948 the term of the abovementioned lease registered in Volume 529, folio 90, Canterbury Land Registry, is renewed for a term of 33 years commencing on the 1st day of July 1987. The Covenant to pay rent and the Rental Value contained in the lease is hereby varied by deleting the said covenant and substituting the following:

Yielding and paying therefor for the first 11 years of the said term unto Land Corporation Limited at Christchurch the annual rent of \$207.00 calculated on a Rental Value of \$13,800.00 payable without demand by equal half-yearly payments in advance on the 1st day of January and the 1st day of July in each and every year during the said period of 11 years, and for the next two successive periods of 11 years of the said term a rent determined in respect of each of those periods in the manner provided in Section 132A of the Land Act 1948.

Save as hereby expressly varied all the covenants conditions and restrictions contained or implied in the said Memorandum of Lease shall remain in full force.

IN WITNESS WHEREOF the parties have hereunto subscribed their name this 13th day of JUNE 1988

)

)

SIGNED for and on behalf of )
HER MAJESTY THE QUEEN pursuant )
to a Deed lodged with the District )
Land Registrar as No. 686366/1 by )
LAND CORPORATION LIMITED by its )
Attorney TARITA ALISON FAIFAI )
GILMOUR in the presence of:

LAND CORPORATION LIMITED by its Attorney

Jugulmour

Witness: Vince fillharly-for

Occupation: PROPERTY OFFICER

Address: LANDCORP CHRISTCHURCH

THE COMMON SEAL of

RYTON STATION LIMITED

was hereunto affixed in the

presence of:

Director

Secretary

THE COMMON SEAL OF

Correct for the purposes of the Land Transfer Act

Solicitor for the Lessee

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P 50

4 July 1988

The District Land Registrar Lands and Deeds Registry Private Bag CHRISTCHURCH

Dear Sir

This dealing is not prohibited by the judgement of the Court of Appeal dated 29 June 1987 in the case for judicial review made by the New Zealand Maori Council and Graham Stanley Latimer.

Yours faithfully

Jagilmour.

Mrs T Gilmour Titles Officer

Christchurch Branch

Equitorip House 76 Cashel Street Physic Bug Christhurth New Zealand Telephone (03) 777-787 Fax (03) 778-440

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#### CERTIFICATE OF NON-REVOCATION OF POWER OF ATTORNEY

<u>ITA ALISON FAIFAI GILMOUR</u> of Christchurch, Property Officer

JY CERTIFY -

<u>HAT</u> by Deed dated the 12th day of June 1987 copies of which are leposited in the Land Registry Offices at -

AUCKLAND (North Auckland Registry) and there numbered B678573
BLENHEIM (Marlborough Registry) and there numbered 136439
CHRISTCHURCH (Canterbury Registry) and there numbered 686366/2
DUNEDIN (Otago Registry) and there numbered 681189/1
GISBORNE (Poverty Bay Registry) and there numbered 167089.2
HAMILTON (South Auckland Registry) and there numbered H734777
HOKITIKA (Westland Registry) and there numbered 076748
INVERCARGILL (Southland Registry) and there numbered 141782
NAPIER (Hawkes Bay Registry) and there numbered 478751.2
NELSON (Nelson Registry) and there numbered 341775
WELLINGTON (Wellington Registry) and there numbered 860782.2

LAND CORPORATION LIMITED at Wellington carrying on the business of land management appointed me its Attorney on the terms and subject to the conditions set out in the said Deed.

- 2. THAT at the date hereof I was Property Officer of the said Corporation.
- 3. THAT at the date hereof I have not received any notice or information of the revocation of that appointment by the winding up or dissolution of the said LAND CORPORATION LIMITED or otherwise.

SIGNE	D at	Christ	chi	ırch
this		day	σ£	June
1988				

dagilnow

### "RELEASED UNDER THE OFFICIAL INFORMATION ACT"

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DATED 20th January 1987

BETWEEN THE NORTH CANTERBURY

CATCHMENT BOARD

A N D RYTON STATION LIMITED

Particulars entered in the Register of Appellite and at the thine recorded below

Assistant Land Healstrar
of the Obtrict of Canters by

LAND IMPROVEMENT AGREEMENT

11.18 27.APR87 C 677166

PARTICULARS ENTERED IN REGISTER!
LAND REGISTRY CANTERBURY

ASST LAND REGISTRAR

ATTE 67

ATTE 6

CHAMPION TAYLOR & CO
SOLICITORS
CHRISTCHURCH

ENDER THE OFFICIAL INFORMATION ACT.



# LAND IMPROVEMENT AGREEMENT APPLICATION FOR REGISTRATION

TO: The District Land Registrar CANTERBURY REGISTRY.

I, <u>BRIAN JAMES MAIRS</u>, Secretary to the <u>NORTH CANTERBURY CATCHMENT BOARD</u>, <u>HEREBY CERTIFY</u> that the within is a true duplicate of a Land Improvement Agreement affecting an estate in fee simple/of leasehold in the land described in the Schedule <u>SUBJECT</u> to the encumbrances therein set out

### SCHEDULE

AREA (hectares)	LOT AND DEPOSITED PLAN (or other sufficient description where land not described in terms of complete lots on a	<u>ENCUMBRANCES</u>	TITLE REF (and le licence where app	ase or number
	deposited plan)		REGISTER	FOLIO
5058.5705	Run 179, Blocks X, XI, XIV,XV Harper, II,III, VI,VII Coleridge S.D.'s	Mortgage 560769/1	529 (Lease	90 P50)
9087.6455	Part R1578	As above	(27F—— (Lease 55	63 <sup>)</sup> 5261/3)
193.6142	R.S. 35294, Block XVI Wilberforce, XIII Harper, IV Oakden, I Coleridge S.D.'s	As above	620 ·	51

of which RYTON STATION LIMITED, a duly incorporated company having its registered office at Christchurch is registered as proprietor AND I HEREBY APPLY to have said Agreement registered against the said land pursuant to Section 30A of the Soil Conservation and Rivers Control Act 1941. I FURTHER CERTIFY that the Agreement is one that may be registered against the land under Section 30A of the Soil Conservation and Rivers Control Act 1941.

DATED at Christchurch this

20thday of Sancon

19 87

Secretary to the North Canterbury Catchment Board

### NORTH CANTERDURY CATCHMENT BOARD

### LAND IMPROVEMENT DEED

(Under Section 30(3) of the Soil Conservation and Rivers Control Act 1941)

THIS DEED made the

the NORTH CANTERBURY CATCHMENT BOARD duly constituted under the Soil Conservation and Rivers Control Act 1941 (hereinafter called "the Board") of the one part and RYTON STATION LIMITED a duly incorporated company having its registered office at Christchurch (hereinafter called "the Company") of the other part.

HEW ZEPELARD STAMP DUTY CHU

### WHEREAS:

- THE Company is the registered proprietor of the land hereinafter called "the said land") described in paragraph 2.2 of the Soil and Water Conservation Plan attached hereto (hereinafter called "the Soil and Water Conservation Plan").
- 2. IT was and is considered necessary in the interests of soil and water conservation to destock that part of the said land edged and cross-hatched in blue on the plan attached hereto (hereinafter called "the first retired land").
- 3. BY an agreement dated the 18th day or November 1965 certain grants (hereinafter called "the said grants") amounting to \$28,580 were made by the Board to the predecessor in title of the Company in respect of works to achieve destocking of the first retired land.
- 4. IT is considered necessary in the interests of soil and water conservation to destock that part of the said land edged and cross-hatched in black on the plan attached hereto (hereinafter called "the second retired land").

### NOW THIS DEED WITNESSETH THAT:

- 1.  $\sim$  IN consideration of the said grants and agreements hereinafter contained on the part of the Board the Company agrees that from the date of execution of this agreement until the expiry of the period referred to in Clause 2 hereof it will:
- (a) Continue to refrain from grazing stock on the first retired land;
- (b) Continue to refrain from carrying out any other uses of the first retired land that may be detrimental to the interests of soil and water conservation such interests to be assessed by the Board on the basis of accepted and prudent soil and water conservation practice in the district.

- 2. IN consideration of the agreements hereinafter contained on the part of the Board the Company agrees that during the period of minety-nine (99) years from the completion of the proposed works referred to in the Soil and Water Conservation Plan it will:
  - (a) refrain from grazing stock on the second retired land;
  - (b) refrain from carrying out any other uses of the second retired land that may be detrimental to the interests of soil and water conservation such interests to be assessed by the Board on the basis of accepted and prudent soil and water conservation practice in the district.
- 3. FURTHER in consideration of the agreements hereinafter contained on the part of the Board the Company agrees that from the date of execution of this agreement and until the expiry of the period of ninety-nine (99) years referred to in Clause 2 hereof it will operate manage and control and carry out such management practices methods programmes and systems of work on the said land as shall be necessary for the purpose of achieving the objectives of the Soil and Water Conservation Plan.
- 4. IN consideration of the agreements and covenants by the Company hereinbefore and hereinafter appearing and conditional upon the carrying out of the proposed works referred to in the Scil and Water Conservation Plan and the due observance performance and fulfilment of the conditions hereinafter appearing the Board will make certain grants to the Company in respect of the proposed works to be carried out by the Company at the rates and in the manner in which grants are provided for in the Soil and Water Conservation Plan and the Soil and Water Conservation Plan shall be subject to the following conditions:
- (a) The Company will during the period of five (5) years from the date of execution of this agreement carry out the proposed works referred to in the Soil and Water Conservation Plan in accordance with the Soil and Water Conservation Plan and the programme there set forth and will during such period so manage the land as to enable the proposed works referred to in the Soil and Water Conservation Plan to be carried out in such a period.
- (b) The Soil and Water Conservation Plan and these conditions may be modified only by agreement in writing between the Board and the Company.
- (c) As and when any part of the work qualifying for a grant is completed the Company may notify the Board and the Company shall in any case upon completion of the programme of work for any one year as set out in the Soil and Water Conservation Plan notify the Board of such completion and the Board may inspect the same to satisfy itself that the work has been done as required by the Soil and Water Conservation Plan. The Company will in any case supply the Board with such

- 3 -

further information relating to such work and provide such vouchers or receipts as the Board may require. If the work shall have been done in accordance with the Soil and Water Conservation Plan and the expenditures there referred to have been made by the Company the Board will pay the grant therefor to the Company.

- (d) The Company will from the commencement by it of the proposed works referred to in the Soil and Water ConservationPlan and for a period of thirty (30) years from the completion of all such works referred to in the Soil and Water Conservation Plan keep and maintain all such works at its own cost and expense to the satisfaction of the Board PROVIDED THAT the retirement fences referred to in paragraph 3.2 and Appendix 2 of the Soil and Water Conservation Plan (hereinafter called "the retirement fences") shall not be subject to the provisions of this condition but rather shall be subject to the provisions of Clause 5 hereof.
- (e) Where any of the proposed works referred to in the Soil and Water Conservation Plan consist of tree planting the Company agrees that it will not during the period referred to in paragraph (d) of these conditions cut down or top such trees without the written consent of the Board provided that the trimming of lateral branches may be carried out without consent.
- (f) Where any of the proposed works referred to in the Soil and Water Conservation Plan consist of tree planting for wind erosion control the Company will carry out the following practices on the land protected by such tree planting works:
  - the line of cultivation shall be across the direction of the principal eroding wind;
  - (ii) surface cultivation shall be practised to a suitable depth using such types of implement as chisel ploughs, discs and cultivators;
  - (iii) the soil shall not be worked to too fine a condition of tilth but a sufficient roughness of surface shall be retained to reduce the hazard of wind erosion;
  - (iv) after a crop or pasture is sown the soil shall be left with an uneven surface by the use of light harrows as the final operation;
  - (v) crop residue shall be returned to the soil and not burned;
  - (vi) The soil shall be bared ov vegetation for a minimum of time between crops or the renewal of pastures;
  - (vii) The rotation of crops and pastures shall be designed to maintain and improve the soil structure.
- (g) The Company will during the term of this agreement:
  - (i) When required by the Board supply to the Board all information and data necessary to enable the Board to compile grazing production and other records as a means of evaluation of the effect of the Soil and Water Conservation Plan;

- (ii) Advise the Board in writing if it intends to sell, transfer, lease or otherwise alienate its interest in the said land or change of use thereof;
- (iii) Permit the agents and servants of the Board on official duties to enter and inspect the said land at all reasonable times.
- (h) If at any time during the term of this agreement the Company fails to carry out faithfully the provisions of the Soil and Water Conservation Plan or breaches any of the covenants herein expressed or implied and on the part of the Company to be observed performed or fulfilled and such failure shall continue for a period of fourteen (14) days after written notice has been posted by the Board to the Company requiring it to remedy any such failure or breach then the Company will upon demand restore to the Board in full (but without interest) all grants made by the Board for the purpose of the works referred to in the Soil and Water Conservation Plan and the grants referred to in Clause 1 hereof.

### IT IS HEREBY AGREED AND DECLARED THAT.

- 5. FROM the date of commencement of the construction of the retirement fences until the expiry of the period of ninety-nine (99) years referred to in Clause 2 hereof the Company will at its own cost and expense and to the satisfaction of the Board:
  - (i) keep and maintain the retirement fences in good order and condition;
  - (ii) execute and carry out all such works and do all such things as may reasonably be necessary to ensure that the retirement fences perform the function of a stockproof barrier between the retired lands and the balance of the said land.

<u>PROVIDED THAT</u> the provision of this Clause shall in relation to the existing retirement fence come into effect at the date of execution of this agreement.

6. THE expression "maintain" in respect of the retirement fence shall mean carry out normal maintenance as is customary in the district and shall not include the repair of damage caused by any naturally occurring catastrophic event or disaster and in the event of any dispute arising as to whether or not any damage to the retirement fence has been caused by a naturally occurring catastrophic event or disaster any decision as to the causation of such damage shall be referred to a committee of two persons comprising -

- (i) a representative of the Company
- (ii) a representative of the Board.
- 7. ANY disputes and questions whatsoever which may during the term hereof arise between the parties shall be referred to the National water and Soil Conservation Authority the opinion of which body shall be accepted by the parties particularly as to any definition implementation or interpretation of soil and water conservation practice and management.
- 8. NOTWITHSTANDING the provisions of Clause 4 hereof on application made by the Company to the Board prior to the carrying out of maintenance works on the retirement fence the Board may approve a grant at the rate of 50% on the cost of such maintenance works and in the event of the Board approving such a grant the provisions of paragraph (c) of the conditions referred to in Clause 4 hereof shall apply to such maintenance works as if such works were detailed in the Soil and Water Conservation Plan PROVIDED THAT the Board shall be entitled to deduct from the grant payable to the Company a portion of the service charge referred to in Clause 9 hereof or such other charge as the Board may from time to time adopt in substitution therefor.
- 9 THE Company shall be properly chargeable by the Board with a service charge of 25% on job costs as approved by the Board for grant purposes. The service charge attracts the same rate of grant as the job costs approved. The Company shall bear the difference between the service charge and the grant calculated thereon and the difference will be deducted from the grant otherwise payable to the Company.
- 10. THIS Deed may be presented for registration in the Canterbury Land Registry against the Land Transfer documents relating to the said land.
- 11. THE parties hereto shall each be responsible for their own costs as to the preparation of this Deed and the Board shall be responsible for all registration costs and any stamp duty which may be assessed on this Deed.

IN WITNESS WHEREOF these presents have been executed the day and year first hereinbefore written.

THE COMMON SEAL of the MORTH CANTERBURY CATCHMENT BOARD was hereto affixed pursuant to a resolution of the said Board in the presence of:

CANTERBUSY CATCHMENT BOARD

Secretary

THE COMMON SEAL OF RYTON STATION LIMITED was hereto affixed in the presence of: COMMON SEAL

> M. S. Director

Director 27 Bayan,

Secretary Waren H. Mewes.

# HORTH CANTERBURY CATCHMENT BOARD AND REGIONAL WATER BOARD

### SOIL AND WATER CONSERVATION PLAN NO. 703250

Ryton Station Limited, c/- Messrs R.T. Bryant and M.S. Meares, "Sentended", DARFIELD, R.D. 2.

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•	Concervation Planning: F.J. McGuigan (1984)	

Recommended: J.H. Stone

# NORTH CANTERBURY CATCHMENT BOARD AND REGIONAL WATER BOARD

### SOIL AND WATER CONSERVATION PLAN NO. 703250

Ryton Station Limited, c/- Messrs R.T. Bryant and M.S. Meares, "Scotswood", DARFIELD, R.D. 2.

### 1. INTRODUCTION

Ryton Station is located in the Rakaia river valley of Canterbury. It was formally known as the 'Cotton's block' of Lake Coleridge Station. The property, comprising freehold land, University of Canterbury leasehold and Crown Pastoral lease contains steep mountainous land, numerous fans, low hills and minor flats as well as several lakes and associated wetlands.

This report records the physical description of the property's resources and an evaluation of the long-term capability of the land resource the purpose of which is to provide a basis upon which sound soil and water conservation measures can be implemented.

The presentation of this document will enable others to become conversant with the property and in particular come to appreciate its soil and water values.

The total cost is \$259287 with a Council share of \$167317 over five years.

### 2. PHYSICAL DESCRIPTION

### 2.1 Location and Access

Ryton Station is located 120 kilometres west of Christchurch in the Rakaia River catchment. On the north west the Harper River forms the boundary and on the eastern side the summit of the Craigieburn Range where it joins Castle Hill run. On the west and southwest the shores of Lake Coleridge form the boundary and to the south Lake Coleridge Station. Road access to the property is via the Rakaia gorge and Harper Road, which is sealed to within 10 kilometres of the property's south eastern boundary.

### 2.2 Area, Tenure, Legal Description, Air Photos

### 2.2.1 Area

Ryton Station comprises:

Crown Leasehold Mt Olympus run 5058.5705 ha University of Canterbury leasehold 9087.6495 ha Freehold 443.3693 ha

14589.5893 ha

### 2.2.2 Tenure

Crown leasehold: Mt Olympus run. Lease expires 1/7/1987 University of Canterbury Leasehold. Freehold.

### 2.2.3 Legal Description

Crown Leasehold: Run 179 Mt Olympus situated in Blocks II, III, VI and VII Coleridge S.D. and Blocks X, XI, XIV and XV Harper S.D. contained in C.T. 529/90.

Freehold: 193.6142 hectares situated in Block IV Oakden S.D. being R.S. 35294 contained in C.T. 620/51. 249.7551 hectares situated in Blocks V, VI, IX and X Coleridge S.D.

### . 2.2.4 Air Photos

Present - Rakaia Gorge

Series	Survey No.	Photo No.	Date
S.W.	5060	G7,8, H7,8,9,10	14/2/77
S.W.	5688	A7, 8	8/2/50

Previous - Arthurs Pass, North Loburn Survey No. 1063

Flight No.	Photo No.	Date
2743 2744 2745 2746 2757 2758 2759	29 26 - 28 26 - 30 24 - 30 34 - 37 37 - 39 39 - 44	22/2/60 22/2/60 22/2/60 22/2/60 31/10/59 31/10/59

### 2.3 Climate, Topgraphy, Soils and Vegetation

### 2.3.1 Climate

The precipitation decreases from west to east. At Hut Creek flowing from Mt Cheeseman into the Harper River the rainfall exceeds 1750 mm per annum and drops to 1150 mm at the Harper Diversion on the northern boundary. On the southern boundary of the property rainfall is estimated to be around 950 mm per annum. The rainfall comes principally from the northwest.

Snow-falls can occur from early April to October. On the higher mountain slopes and in the basins the snow lies for about four months. On the tlats and low hills heavy snow-falls may lie for some weeks but generally snow melts on sunny aspects in a few days.

Frosts during the winter halt vegetative growth from May till mid-September.

Wind is a particularly important element in the climate of the region. Strong dry nor-west winds during the spring create adverse conditions for plant growth during the summer.

### 2.3.2 Topography

The property lies along the western flank of the Craigieburn range and extends westwards as far as Lake Coleridge. Beginning at over 2100 metres along the Craigieburn Range the property descends rapidly to the low hills of the Clay range (840 m a.s.l.) and onto the valley floors occasionally interrupted by a singular mountain before rising to 1477 metres a.s.l. on Cottons Sheep range and descending very steeply into Lake Coleridge.

Altitude ranges from 518 metres a.s.l. at Lake Coleridge to 2194 metres a.s.l. at the highest point Mt Enys.

### 2.3.3 Soils

Four soil sets were recorded when the property was surveyed.

Sets Mapped

### A. Soils of the Fans, River Flats and Swamps

Tasman Grasmere Dobson

### B. Soils of the Terraces

Mesopotamia fine sandy loam Craigieburn

### C. Soils of the Rolling Country and Hill Land

Tekapo Tekapo hill soils Cass soils

### D. Related Steepland Soils

Tekoa steepland soils Lewis steepland soils Kaikoura steepland soils Alpine steepland soils

These fall into five major soil groups.

### Recent Soils

99 Tasman (Tm) The Tasman soils on the river flats are mostly light and stony. The soil has developed from greywacke alluvium under fescue tussock grassland with matagouri scrub. These soils are subject to stream bank erosion and deposition of coarse detritus in places.

90d Dobson (Db) A soil of flat low-lying land. On the property this soil type is found near take Henrietta and near Hossburn Stream. The soil has developed from greywacke alluvium under a swamp vegetation of rushes and sedges. It is poorly or imperfectly drained as indicated by strong mottling and gleying throughout the profile. The soil has a medium natural fertility.

### 2. Upland and High Country Yellow - Brown Earths

52b Mesopotamia (Mp) Soil is formed from greywacke loess over gravels. The soil profile is approximately 60 cm of silt and sand over fine gravels. The vegetative cover is fescue tussock grassland and widespread patches of matagouri scrub. It is found on flat to easy rolling terraces or old moraines. On this property this soil borders the Harper River. It is liable to wind erosion.

52 Craigieburn (Cb) Silt and sandy loam soils are found on the higher terraces of the property. They have developed from greywacke loess under a fescue tussock grassland and matagouri scrub. Dense thickets of manuka and kanuka scrub feature on slopes between one terrace and another. These soils, like the other terrace soils, are very porous and subject to drying out in north-west conditions. When exposed to frost action the soil suffers severe wind erosion. Topsoil has been stripped from between the islands of vegetation. Characteristic nests of stones are found on the surface of these eroded soils. Natural fertility is low.

50 Tekapo (T2) and Tekapo Hill (T2H) are formed from greywacke morainic detritus with a veneer of loess under a fescue tussock grassland with a wide dispersion of matagouri scrub and patches of mixed manuka and kanuka. The porous nature of these soils render them liable to dry conditions for plant growth and prone to wind erosion. Where severe wind erosion has occurred most frequent plants are Coprosma petriei, Raoulia subsericia and Cyathodies fraseri.

53H Cass Hill (CsH) Soils are fine sandy loams and stony loams derived from greywacke loess over gravels and glacial till, under snow tussock and fescue tussock grassland. They are found on the morainic downlands and low hills of the Clay range where the rainfall is higher than on the areas of Tekapo soils. Today the Cass soils support mainly fescue tussock grassland with some snow tussock (Chionochloa rigida and C. flavescens) and widely scattered patches of maiagouri and manuka scrub. Where the soils appear to be less porous and wetter red tussock (C. rubra) is present. These soils have a low natural fertility and are subject to severe sheet erosion.

57a Tekoa Steepland (Tks) Soils are found on steep slopes on the Craigieburn range and on Mt Ida upto about 1100 metres. These soils are derived mainly from greywacke detritus. The vegetation is snow tussock (C. flavescens and C. rigida) grassland although fescue tussock is widely dispersed throughout and there are remnants of beech forest. The soils are stony silt loams, with numerous rock outcrops.

The soil has a low natural fertility and is subject to sheet, wind, scree and gully erosion.

57 Kaikoura Steepland (KrS) Soils are found on the steep and very steep slopes at altitudes in excess of 1000 metres. The soil is derived from greywacke detritus under a discontinuous cover of snow tussock grassland and sub-alpine scrub. Fertility is extremely low.

- 5

They are subject to severe erosion due to movement by frost and snow, wind, sheet and gully erosion. These soils occur on the higher slopes of the Craigieburn range, Mt Ida and Mt Cotton blocks of this property.

### 3. Upland and High Country Podzolised Yellow - Brown Earths

65 Lewis (LwS) Soils are found on steep and very steep slopes at high altitudes. The soil is derived from greywacke detritus under sub-alpine scrub and beech forest. Fertility is extremely low. They are subject to severe sheet and gully erosion.

### 4. Alpine Steepland Soils

100 Alpine Steepland (ApS) soils refer to the rocky outcrops and scree slopes on the higher reaches of the mountains which are mostly bare ground with some scattered alpine herbs and grass. They are subject to active geological erosion.

References: Soils of the South island. Soil Bureau Bulletin No. 27, D.S.I.R. Conservation run plan No. 35. Lake Coleridge Run, N.C.C.B., 1965.

### 2.3.4 Vegetation

Little attempt has been made to introduce improved species into the tussock grasslands of this property. That part of the property known as the Peninsula was oversown and topdressed in 1974.

Below 1000 metres the vegetation is dominantly fescue tussock grassland with a wide dispersion of matagouri scrub and several patches of mixed manuka and kanuka scrub. The principal associated grass species include browntop, sweet vernal, yorkshire fog, blue tussock and silver tussock where soils are deeper. Where wind erosion has been severe most plants, particularly Coprosma petriei and Raoulia subsericia, are prevalent. On the less porous and wetter soils red tussock (C. rubra) and swamp vegetation are present.

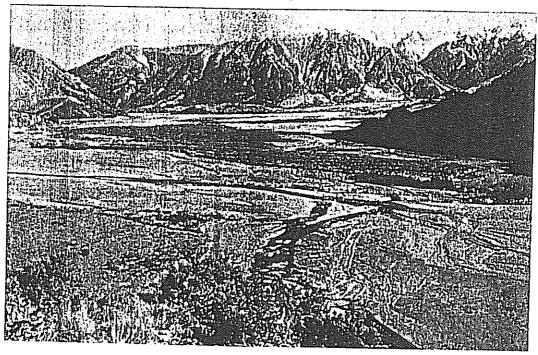
Above 1000 metres altitude the vegetation is principally snow tussock (C. flavescens and C. rigida) grassland although fescue tussock is widely dispersed throughout. Scrub-land is found often in the vicinity of rock outcrops and scree slopes where species of Coprosma, Corokia, Drachophylium and Cassinia grow. There are pockets of beech forest. Often a feature of this area is the shingle screes which gravitate down from the Alpine zone presenting a landscape of islands of vegetation of irregular outline with an eroding perimeter. Within the Alpine zone much of the area is bareground with some scattered alpine herbs and grasses.

Both gorse (Ulex europaeus) and broom (Cystus scoparius) are found on this property. Gorse is found on the 'Peninsula' and around Moncks Hut at Lake Catherine while the broom is confined to an area along the Ryton River between the road and Lake Coleridge where sweet briar (Rosa rubiginosa) is also present. Both species show little signs of spreading any great distance from where they established originally.

Under the prevailing climatic conditions exposed soils erode readily. Geological erosion of an extreme nature is active on the highest slopes. The mid slopes have moderate sheet, wind and some scree creep erosion. The terraces and moraines are wind eroded in many places.

Frost lift is the major cause of pulverising the weakly structured soils and facilitates the removal of soil particles by wind and water and for this reason the maintenance of a vigorous plant cover is essential.

Stream bank erosion is occurring along a section of the north-western boundary adjacent to the Harper River. Previous works for lateral bank erosion have been carried out on the Ryton River.



PROTECTION WORKS ALONG HARPER RIVER

A large 'active' fan extending from the Cottons. Range is contributing detritus to Lake Evelyn and will eventually fill the lake. Elsewhere on the property the streams are relatively stable and non eroding.

### 2.5 Land Capability Classification

### 2.5.1 Capability Class Areas

	Class	(	Area Hectare by planimeter)	% of Total
	IVel, e2 IVw IV2	159) 36) 69)	264	2
<u>ኣ</u>	Vw		138	1
	VIel-e3 VIs	2003) 1296)	3299	22
	VIIel-e3		2873	20
	VIIIel-e4		8016	55

14590

### 2.5.2 Class Standards

### Land Suitable for Arable Use

Class IV - On this class of land, while cropping is feasible, the limitations as defined by the following subclasses severely curtail many options.

Mesopotamia fine sandy loams of flat to gently undulating (A - B) slopes with slight sheet and wind erosion. These soils are subject to a severe sheet and wind erosion hazard.

Cass silt loam on undulating to rolling (B + C) slopes and Craigieburn silt loam on flat to undulating (A + B) sites with slight sheet and wind erosion. These soils are subject to a severe wind erosion potential when cultivated.

Dobson soils on flat (A) slopes. A residual wetness persists which drainage can alleviate to some extent.

Tasman shallow silt loams on flat (A + B) slopes with up to 10% of the area bared of vegetation.

### Land Not Suitable for Arable Use

Class V - This land is unsuitable for arable use because the degree of physical limitation, as defined by the following sub-class, severely curtails many options.

w (40 ha) - Dobson sandy clay loam in low-lying wet areas contains swamp vegetation. The major limitation is soil wetness, unable to be improved significantly through land drainage.

Class VI - This class of land is well suited for pastoral or forestry production. The limitations are defined by the following subclasses:

- Cass silt loam soils on flat to strongly rolling (A + D) moraines and fans with sheet and wind erosion affecting  $\tilde{1}$  - 20% of the area and Cass Hill soils on moderately steep (E) slopes with 1 - 20% of the area eroded.
- Craigieburn silt loam soils on flat and rolling ( $\Lambda$  + C) slopes. Erosion in the form of sheet and wind affects up to 20% of the

Tekoa Hill and Steepland soils on moderately steep (25°) slopes, with sheet erosion affecting 1 - 20% of the area.

Tasman shallow stony and very stony shallow soils of flat (A + B) slopes with upto 20% of the area bared of vegetation and soil depth a limiting factor.

Class VII - This class of land has limitations or hazards that severely restrict the use for pastoral production. Forest production may still be sustainable though with severe limitations.

Cass silt loam soils (strongly leached) and Cass Hill and Craigieburn soils on strongly rolling (D) to steep (F) slopes with 21-40% of the surface area, sheet and wind eroded and a 'significant loss in profile depth.

Tekoa Hill and Tekoa steepland soils on steep (F) slopes with 21 - 40% of the area covered either in scree debris or sheet, wind

and gully eroded.

Kaikoura steepland Lewis steepland soils on steep slopes with up to 40% of the area covered in scree debris.

Class VIII  $\stackrel{\circ}{-}$  This is land with such extreme limitations or hazards that its use is restricted to water-shed protection.

- $e_1$  Tekoa steepland soils on steep (F) slopes mostly above 850 metres and 40 60% either covered in scree debris or sheet, wind and gully croded.
- e<sub>2</sub> Kaikoura steepland, soils on steep to very steep F G slopes (35° or more) and generally above 1000 metres in altitude with more than 60% of the area sheet wind and gully eroded.

Lewis steepland soils on very steep slopes (G) on lower slopes of Mt Cheesman with 40 - 60% of the area in scree.

e<sub>4</sub> Alpine steepland soils on very steep (F - G) slopes with extreme erosion in the form of talus scree.

 $e_4$  Skeltal soils have little or no top soil on very steep slopes with over 60% of the area eroded by sheet and wind.

### Abbreviations:

e = erosion

s = soils

c = climate

w = wetness

### 2.6 Water Resources

Ryton Station occupies much of the land in the natural catchment of lake Coleridge. Its water resources are diverse and include two rivers, several streams and a number of lakes and associated wetlands. The property lies in an area of relatively low runoff. The average annual water, resources (Isolyd) over the property range from 20 lsec km² to 45 lsec km² which is low in relation to other properties in the area.

### 2.6.1 Rivers

### (a) Harper

The Harper River forms the north-western boundary of the property. It flows from the largely forested area of the Harper - Avoca State Forest and in its upper reaches is quite stable. In the lower reaches where the river is a braided channel re-alignment is often necessary to maintain the flow in the Harper Diversion after spring floods.

#### (b) Ryton

The Ryton River practically bisects the property. From its source on Mt Cheeseman in the Craigieburn Range it flows to Lake Coleridge. In the upper reaches the river is joined by the Goldney and in this area both rivers are flanked by spectacular scree slopes. In the lower reaches the river is more braided and some channel training works have had to be carried out.

### 2.6.2 Lakes

#### (a) Lake Evelyn

Lake Evelyn is a small  $(0.15~{\rm km}^2)$  elongate lake surrounded by an extensive raupo wetland. Maximum depth of 3 metres. There is no distinct inflow and the outlet is to the Hennah Stream which flows to Lake Coleridge via the Ryton River. The lake is

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ED UNDER THE OFFICIAL INFORMATION ACT

considered near oligotrophic which means it is of low fertility for a lake. It is important that lake water quality be maintained at a reasonably high level in order to protect water quality in the Hennah Stream.

### (b) Lake Ida - Little Lake Ida

Lake Ida is a small lake that lies in the shaded valley between Little Ida and Mt Ida. The surrounding land is scrub and tussock grassland with small pockets of beech forest on the lower slopes of Mt Ida. This forest comes to the lake edge on the northern side of the lake. Inflows to the lake are from intermittent watercourses draining the adjacent hill country and the outlet is at the eastern end where it flows into the Idaburn Stream.

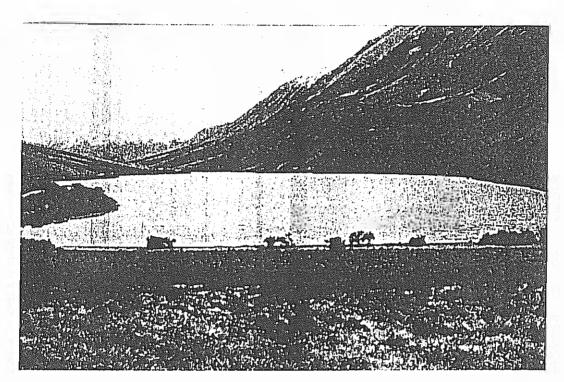
Maximum lake depth is 9 metres. Lake Ida is the only lake in this area which freezes in most winters. The lake is of medium fertility. Lake Ida, with its predominantly shingle beaches, is of low wildlife habitat and fisheries value.

Little Lake Ida is a small lake separated from Lake Ida by a shingle fan originating from Mt Ida. The outflow from this small lake drains into the western end of Lake Ida.

### (c) Lake Selfe

Lake Solfe which lies in a valley to the southwest of Mt Ida and Little Mt Ida is 2.1 kilometres long, has a maximum width of 0.5 kilometre and a maximum depth of 30 metres. The lake is retained behind shingle fans from both Mt Cotton and Mt Ida. Inflows are from several small streams draining the adjacent hill country along with intermittent surface runoff from the catchment. The outlet from the lake is at the northwestern end, where the stream is channelled across the bottom of the converging shingle fan, before dispersing into lake Henrietta, from there into the Mossburn wetlands and Harper River. Lake Selfe is considered mesotrophic, i.e. of medium fertility for a lake. The shaded slopes of Little Ht Ida on the northeast side of the lake have little potential for any agricultural development. The slopes contain beech forest, pepperwood stands, scree and tussock grassland and are scenically attractive. The lower slopes of the Cotton range to the south west of the lake have potential for development for grazing which could be enhanced by oversowing and topdressing.

To ensure lake water quality remains at its present level the owners agree not to topdress that portion of the bake Selfe catchment shaded on the programme of work map at least for the duration of the proposed programme (5 years). This will enable Board staff time to monitor and access the likely results of development upon this important lake. Lake Selfe is of little value as a wildlife habitat and the only recreational developments to date in the catchment are the informal camp site at the south east end of the lake.



LAKE SELFE

### (d) Lake Catherine

Lake Catherine, also known as Lake Monck, lies to the east of Mt Ida. The lake is  $0.15~\rm km^2$  in area, with a maximum length of  $0.9~\rm km$ , and maximum width of  $0.3~\rm km$ . The maximum depth is about  $10~\rm metres$ . The main inflow is the Monkburn Stream which drains the Clay Range to the east and which is near the outflow which drains south through a small wetland to the Ryton River. Lake water quality is presently satisfactory and it can be characterised as oligotrophic – mesotrophic. Lake Catherine and its environs offer good wildlife habitat and recreational value.

#### (e) Lake Henrietta

Lake Henrietta is located to the west of Lake Selfe from which it derives its inflow. It is a shallow lake (2 metres) and is surrounded by a substantial raupo dominated wetland area. It drains to the Harper River via the Moss Burn wetland. Lake Henrietta shows very similar chemical features to Lake Selfe and is considered to be near mesotrophic. The lake and its associated wetlands are considered to offer considerable habitat potential for wildlife. The water quality of Lake Henrietta is influenced by what happens to Lake Selfe.

### ~ 2.6.3 Wetlands

The wetland areas on Ryton Station are formed in depressions among glacial moraines.

The term 'wetlands' is a general term for a wide range of habitats, including marshes, swamps, ponds, bogs and lagoons. The ecology of the wetlands on Ryton Station are little studied.

ASED UNDER THE OFFICIAL INFORMATION ACT.

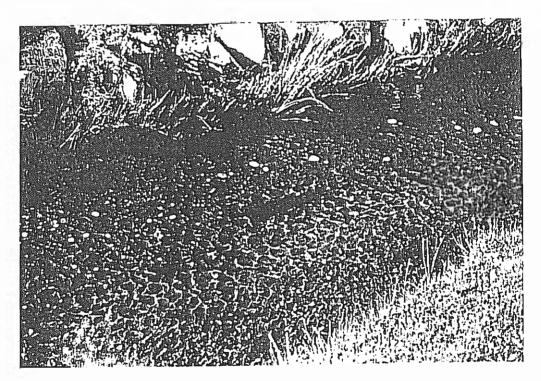
The owners are aware that topdressing, if carried out in the catchments of lakes should be so done as to avoid direct inputs of fertiliser into the lakes and particularly around Lake Selfe, consideration should be given to the concept of grazing only without inputs of fertiliser.

### 2.7 Wildlife

### 2.7.1 Fisheries

The sports fishery in the lakes and streams of Ryton Station is based upon three introduced salmonid species.

(a) Land-locked quinnat salmon are the most heavily exploited fish species in Lake Coleridge. Streams in the Ryton system, particularly the Hennah Stream, are amongst the most important spawning waters for this population. Like their sea-run counterparts most land-locked quinnat spawn at 3 years of age at which time fresh-run fish average about 1 kg (cf. fresh 3 year sea-run fish average about 7 kg). Most spawning occurs during April and May, after which the fish die. Quinnat salmon are also known to be present in low densities in Lake Catherine, but there are few records of these fish in Lakes Ida and Evelyn, to which Lake Coleridge fish also have access.

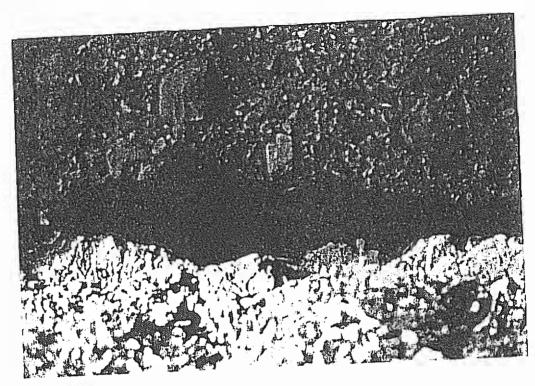


#### **OUINNAT SALMON - HENNAH STREAM**

(b) Brown trout are present in all the lakes on Ryton Station and in Lake Coleridge itself. Spawning occurs in streams of the Ryton System, the Lake Catherine and Lake Henrietta inlet streams (Monckburn and the Selfe outlet stream respectively) and probably around the gravel margins of most of the lakes. Spawning typically commences in about mid-May and peaks in June or early July. Fish start spawning at about 3 years and repetitive

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spawning occurs, with fish as large as 6.5 kg (14 lb) and perhaps 10 - 11 years in age having been captured in the Ryton fish trap operated by the Acclimatisation Society. Where present, brown trout provide challenging angling for skilled fly fishermen.



### BROWN TROUT - HENNAH STREAM

(c) Rainbow trout are common in Lake Coleridge and many spawn in waters of the Ryton Station. Small populations are also known to be present in Lakes Catherine and Ida. Rainbow trout spawn latest of these three species, with the peak of the run typically being mid July - Mid August. They are a popular sports fish.

Native fish recorded from lakes or streams on Ryton Station include land-locked Koaro (one of the whitebait species) and the upland bully. Other native fish known to be present in Lake Coleridge are the longfinned eel and the common bully, species which are very probably present in the Ryton Stream and also perhaps in some or all of the lakes. It is important to have an overhanging vegetation along the stream margins to provide cover for the fish during spawning.