



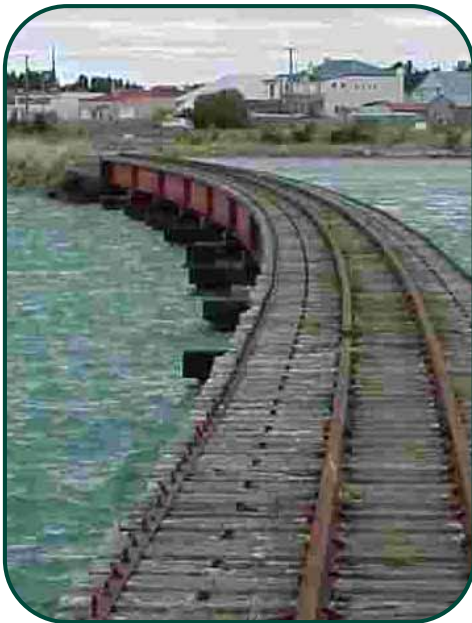
DECEMBER 2000

A news update for Land Information New Zealand clients

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PUBLIC WORKS ACT TO GET A MAKEOVER

Despite its youthful appearance, the heritage of the Public Works Act 1981 stretches back through the Public Works Act 1928 to laws made as early as 1870. The legislation is clearly showing its age and the Government is about to launch a comprehensive review that will give the statutes a 21st century perspective.

At a glance

- The Public Works Act 1981 is grounded in legislation going back to the 1870s, and needs reviewing.
- LINZ is now responsible for the Public Works Act and will lead the review process.
- The first step is the issue of a discussion paper this month and the seeking of submissions.
- The discussion paper focuses on “big picture” issues such as the role of the Treaty of Waitangi.
- Submissions close on 30 March 2001.

The Public Works Act and its predecessors provided the legislative grunt that was required to carve New Zealand’s infrastructure out of the country’s often challenging landscape.

It enabled land to be acquired, either by agreement or by compulsion, for the construction of roads, airports and railways, hospitals

and schools, water and electricity supplies – all of the facilities needed to transform New Zealand into a post-industrial nation within just a few decades.

The pace of infrastructure development has slowed considerably since the heady days of progress in the 19th and 20th centuries. But other circumstances have changed, too.

In the two decades since the latest public works legislation was enacted, New Zealand has undergone significant economic and state sector reforms. Functions that were once carried out by core government departments like the former Ministry of Works and Development are now done through the private sector.

Technology changes and globalisation have also affected the working environment for the 1981 legislation. And increasing awareness of the role of the Treaty of Waitangi is placing the Crown’s land-related activities under much greater scrutiny.

The Government wants to introduce new public works legislation that is clear, workable and flexible enough to meet current and future requirements. In doing so, it must strike a

careful balance between the rights and obligations of the Crown, local authorities and other public bodies to acquire land for work that’s needed for the public good, and on the other hand the rights and obligations of the people with a legal interest in the land.

In the wake of the state sector reforms that began in the 1980s, responsibility for the Public Works Act has bounced around and come to rest with Land Information New Zealand (LINZ). It is now the task of LINZ to lead the review of the legislation, starting with a process of public consultation.

The first step in this process has been the drafting of a public discussion paper, released this month and also published on the LINZ web site (<http://www.pwareview.linz.govt.nz>). The discussion paper focuses on the broad issues surrounding public works. Once those are addressed, the details can be looked at. There are seven key areas for discussion:

- what is a ‘public work’?
- who should be able to exercise public works powers?
- how should land be acquired?
- who should be compensated and to what extent?
- how should land that’s been acquired for public works be disposed of if it’s no longer needed?
- compliance and enforcement provisions, especially in situations where former Crown assets have been transferred to private ownership
- how should Treaty of Waitangi provisions be written into obligations to be provided for in the new legislation?

The public consultation process has been launched this month and will continue until March 2001. Issues of interest to Maori are considered throughout the paper, which includes a detailed set of recommendations from the Waitangi Tribunal on future reforms to the Public Works Act. A series of 14 hui will be held throughout the country to help ensure Maori views are woven into the process.

The discussion paper will be advertised in the print media.

Provision has been made for public meetings or meetings with special interest groups should the demand arise. The LINZ review team is also available to meet with interested groups in Wellington.

Submissions close on 30 March 2001, and new legislation stemming from the review is likely to be introduced in 2002.

There are several ways submissions can be made:

- using the submission form on the LINZ website
- emailing a submission to pwareview@linz.govt.nz

- faxing a submission to 04 498 3519; or
- using the submission form provided with the discussion document and posting it to LINZ.

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PUBLIC WORKS PART OF NEW ZEALAND HERITAGE

The public works projects that etched New Zealand's infrastructure into a rugged and unforgiving landscape are inextricably bound up with New Zealand's heritage of European settlement.

Nowhere was the celebration of a young country's achievements better expressed than in the New Zealand Centennial Exhibition which ran for six months in Wellington between November 1939 and May 1940. An incredible 2.6 million visitors passed through the gates to marvel at the modern wonders recreated on the 22 hectare site.

Five years in the planning and construction, the exhibition celebrated the achievements of a young nation and its emergence from the depression. New Zealand's transport and energy networks were still being forged against a background of optimism that man could indeed tame nature and the landscape.

Sir Julius Vogel's massive public borrowing programme of the 1870s was the first big pump-priming exercise in New Zealand's public works development. While his own political career ended in failure, Vogel set the scene for the 'opening up' of New Zealand to its new waves of settlers.

In the 1945 publication *Introduction to New Zealand*, the writer notes: "The earliest [railway] lines were built by British firms; but the Public Works Department has been the great builder, its engineers the unsung heroes of our great achievements....The road surveyor and engineer have often had the tough experiences of the explorer, and muscle and sweat did mighty deeds before the advent of modern mechanical shovels and bulldozers."

Our progress seemed unstoppable, and in the optimistic post-war years the surge of national development indeed continued as the country became wired up to the modern era. Our progress was routinely compared with the westward expansion of settlement in the United States.

The 1953 Tangiwai disaster was the first chilling reminder that nature can swat aside human achievements with impunity. Two decades on there were signs that New Zealanders would not accept 'progress' in the form of major public works projects at any cost: the ambitious Manapouri power project was modified in the face of public opposition as plans to raise lake levels were abandoned.

As we enter the 21st century, New Zealand's infrastructure

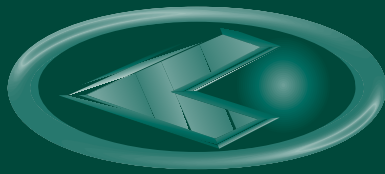


development has matured. The focus has turned to improving existing networks rather than carving new ones. Satellite and digital communications are supplementing land-hungry terrestrial communications networks.

Land that had been acquired by the Crown for public works projects but not needed is being transferred back to private ownership.

The Public Works Act 1981, now being reviewed, has its roots in Julius Vogel's 19th century version of 'Think Big'. New issues have emerged and old issues such as Maori land grievances are now being viewed in a different light. The institutions that guide public works have changed and so has the nature of the work. We were a 'British nation' then – we are not now.

The legislation that guides the way we acquire land for our public works needs to reflect these and other changes in New Zealand's economy and society.



Landonline
survey and title automation

Landonline gets successful test run with Dunedin customers

Since the beginning of October, half a dozen Dunedin solicitors and surveyors have been using **Landonline** in their offices to search titles and survey information.

As a final test of the functionality, four legal practices and two survey firms have been taking part in a trial of **Landonline's** on-line searching service. The trialists have been using **Landonline** to search for titles and survey data in a 'real-life' situation, as part of their day-to-day work in Otago.

"It was pretty successful, probably more successful as the trial progressed and more records had been entered into Landonline."

Landonline, Geoff Bates, a partner in D G Hatfield & Associates, says he found the customer trial 'enlightening'.

"It was pretty successful, probably more successful as the trial progressed and more records had been entered into **Landonline**."

According to Esme Dawson, Personal Assistant at Staley Cardoza Lawyers, her overall impression is that **Landonline** is really good.

"I was impressed with the professional service and any problems we experienced were dealt with quickly. LINZ was persistent and didn't let things lapse."

The purpose of the trial was to test **Landonline's** support services and technical architecture, as well as to find any parts of the system that needed to be improved before it was released. For the first month the trial users completed a daily report, focusing on different areas each week.

Neither the trialists nor LINZ were disappointed in the results.

One of the surveyors using

Early technical issues cleared up

Although LINZ was expecting some technical issues, Esme says she hasn't experienced too many technical problems using **Landonline**.

"The system ran slow for the first two days and I had to re-boot the PC - but that was the worst I experienced.

"To start with not all the titles were scanned in, but I could do a manual search using the system, so I got the answer either way. The response for manual searches was very quick. Some came back in half an hour as opposed to half a day pre-**Landonline**."

Geoff says he found the system good to use once he became familiar with it.

"I find certain parts are still frustrating. This is mostly because I'm used to working the old way, but it's frustrating having to go back to field books and so forth."

All the Otago Land Registration District records have now been converted, so users will be able to find all the records that ought to be there. However, some records, such as survey field books, will remain available in paper form only.

Printing in **Landonline** can require some special setting up, depending on how common a customer's printer is. LINZ obtained printer drivers for all trial customers before the trial started, but that didn't stop the odd problem from occurring. However, a printing solution that LINZ implemented during the trial has taken care of these problems, and now allows printer settings to be changed for sizes below A3.

Esme says Staley Cardoza experienced minor printing problems at the beginning of the trial.

"Ours turned out to be internal printing problems. However, LINZ did a lot of follow-up and were very thorough."

Geoff was pleased that the printing quality was good, and they could print to A3.

"One or two plans may require originals from the LINZ office, but I think this will always be a problem with old plans."

Not being able to view plans on screen before ordering them has been the main concern of the two survey firms in the trial.

"Searching titles is fine. However, searching sight-unseen is a bit frustrating with survey searches," says Geoff.

He also noted that he had to get used to a new way of working around the lodgement of plans. "One plan has to be totally lodged before you can do the next. It's all right as long as you're aware - it's just a matter of working around and getting used to it."



(Left to right)
Rachel Cardoza,
Esme Dawson and
Susie Staley.

The emailing of images, the main way of ordering plans, is working very well. Initially, LINZ experienced some problems with the emailing back of images, mostly with large files over four megabytes, which sometimes weren't delivered. However, these large files are now being delivered properly, without any problems.

Geoff believes that a high-speed phone connection like 'Jetstream' would be useful for offices that order a lot of images by email.

"We also quickly found that, with the number of plans we were ordering, we needed a dedicated PC and email line to ensure a quick workflow."

Support services praised

To give customers a good start using **Landonline**, LINZ provided them with three avenues of assistance; a written 'Quick Start Guide', a detailed on-line help file within **Landonline**, and an 0800 number to LINZ's 'Solutions Team' (call centre) in Wellington. The 0800 number was also the vehicle to report any difficulties encountered.

Esme commented that she quickly learnt how to use **Landonline**.

"I had never worked on the computer at LINZ before, as another person in our office went to LINZ for the searches. I was expecting the worst but there weren't any problems at all."

The Quick Start Guide was well received by customers, although many indicated they would like more information in the guide. One of these was Geoff. "I expect though, that it's a learning curve for each individual using it."

Esme believes the on-line help is thorough. "I made a point of trying to use that, the guide, and ringing the help-line number."

The trialists were very positive about the availability of an 0800 number and the friendliness and responsiveness of the Solutions Team.

"I found the Solutions Team to be extremely helpful and used the 0800 number regularly," says Geoff.

Esme was also enthusiastic about service from the Solutions Team. "I am impressed with the customer service and support of the Solutions Team in Wellington. They were persistent in trying to solve problems and, on occasion, gave twice-daily updates."

Stephen Hall (the co-ordinator for the trial) also came in for praise.

"Stephen Hall was really good - he rang up every day to check how we were going and to find out about any issues we were having," says Esme.

The **Landonline** team is now working on a 'Frequently Asked Questions' page on its Internet site to address technical questions. The start-up pack that will go out to customers who sign up will also be expanded in response to questions trialists asked. LINZ will regularly review this information and update it based upon Solutions Team calls and other enquiries.

All in all, the trial has been a great success. The feedback and assistance from the six trialists has given LINZ the opportunity to iron wrinkles out of the system, and future users will find that **Landonline** is a very robust and efficient system.

The trial has been extended until early December to test some of the improvements introduced since it began.

LINZ is launching **Landonline** to Dunedin customers on 12 December.

LINZ MANAGING ALEXANDRA PROPERTY PURCHASES

A series of devastating floods in Alexandra during the 1990s has culminated in a major flood protection project funded jointly by the Crown and Contact Energy – and a key role for LINZ's Crown Property Management Group.

At a glance

- The Government and Contact Energy are to fund a \$21.58m flood protection and remediation project in Alexandra.
- LINZ's Crown Property Management Group is managing the contract for the purchase of properties and easements needed for the construction of flood protection works.
- A contractor, The Property Group Ltd, has been appointed to carry out the property purchase work.



Alexandra during the November 1999 floods. Photo: Otago Daily Times

Following the most recent flooding in November 1999, the Government announced a \$21.58 million package to protect Alexandra from future flooding by the Clutha River and make good earlier flood damage.

The main components are the construction of a floodwall one metre higher than the 1999 flooding level, and a community amenity enhancement package. This involves landscaping, roading and the restoration of amenities such as the town's swimming pool.

In addition to the flood protection stop banks, there will be collateral work such as alterations to roading, waste and stormwater, telecommunications and power systems.

In order to carry out the flood protection work, some properties will need to be purchased, while easements will be required over others. This is where the LINZ team comes in.

As a first step in the process, LINZ has appointed The Property Group Ltd as the agent to negotiate the purchases. Last month the company began contacting owners of affected properties. At the same time applications have been lodged with the Otago Regional Council for the resource consents necessary for the flood protection work.

Contact for further information:

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LINZ HOSTS OVERSEAS DELEGATIONS

Land Information New Zealand has recently hosted a number of overseas groups with an interest in our reforms and processes:

- In August, 18 representatives of the **Japan** Federation of Survey and Planning Associations visited LINZ and private sector groups to take a closer look at the New Zealand survey system, cadastral reforms and the development of **Landonline**.
- Twelve executive members of the **Malaya** Association of Authorised Land Surveyors visited New Zealand recently to study the regulatory framework for surveying. They visited the Surveyor-General at LINZ national office and Christchurch regional office, as well as New Zealand Institute of Surveyors representatives.
- LINZ hosted a consulting surveyor from **Queensland** undertaking a project on behalf of the Australian Government,

looking at options for digital lodgement of cadastral survey data.

- A delegation from the Chinese Legislative Affairs Office of the State Council **People's Republic of China** made a brief visit to LINZ national office in October. The visitors were interested in New Zealand's administration of its marine resources and were hosted by a number of government agencies during their stay. At LINZ they were introduced to New Zealand's spatial referencing system and the spatial definition of marine rights. LINZ staff also explained the New Zealand Continental Shelf Project.
- Two surveyors from the **Fiji** Department of Lands and Survey spent time at the LINZ Hamilton regional office and also visited the Surveyor-General at national office during October. The survey system in Fiji is hampered with big backlogs, and the delegates were focusing on LINZ's system for plan approval, and the cadastral surveyor and audit system. They are interested in implementing similar reforms in Fiji with a view to improving plan approval times.

CADASTRAL SURVEY GUIDELINES UPDATED

7

At a glance

- The LINZ Cadastral Survey Guidelines have been revised.
- The latest set of guidelines is known as version 3.
- They are now being disseminated via the LINZ web site, at www.linz.govt.nz/services/survey_system/cadastral/csg_index.html
- The guidelines will be updated more regularly now that this can be done via the Internet.

expensive and unwieldy process of sending out the updates in hard copy form, surveyors can now retrieve the new guidelines from the LINZ web site at www.linz.govt.nz/services/surveysystem/cadastral/csg_index.html.

The guidelines were introduced in 1998 to coincide with the introduction of accreditation of cadastral surveyors. Version 2, May 1999, contained significant revisions and some additional sections. With the latest revision, version 3 (issued in August 2000), there are very few new or changed requirements. Most of the changes are to clarify existing requirements and help achieve more consistent interpretation of those requirements.

Although some chapters have not been changed since the last amendments were made, the entire set of guidelines on the Internet are labelled as version 3.

Land Information New Zealand has put the Internet to work to bring registered surveyors the latest batch of changes to the Cadastral Survey Guidelines. (Cadastral boundaries are legal property boundaries.)

Rather than going through the

Surveyor-General Tony Bevin has written to all practicing surveyors with an overview of the changes. He says the guidelines will now be reviewed regularly, probably quarterly. The Internet will be the primary means of update and dissemination. Publishing on the Web gives more flexibility to address changes as they are needed.

LINZ will maintain a 'Change Log' to make it easier for surveyors and staff to keep track of what has changed. Recently a log of changes from version 2 to version 3 was added to the Guidelines material on the Internet. This will make it easier to identify which parts to print to update existing printed guidelines and, more importantly, to easily identify any new requirements.

Some of the more significant changes in version 3 include revised requirements for checking Global Positioning System (GPS) measurements, more examples of methods used to ensure compliance with the prescribed standards of accuracy, clarification of plan presentation requirements and sample plans, presentation requirements for existing subject easements, natural boundaries and limited titles.

Tony Bevin has paid tribute to the LINZ review team led by the ex-Auckland Chief Surveyor Bruce Morrison. "They have achieved a major milestone in compiling this new update version," Tony said.

Contact for further information:

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RAIL BRIDGE REACHES END OF THE LINE

Preparatory work on demolition of the 1905 Riverton rail bridge in Southland has begun with the appointment of Queenstown-based Steve Rout Contractors to remove the structure.

The contractor will be removing the two bridge structures and central causeway and doing repairs on the northern causeway rockwork.

One of the 'Howe trusses' – the wooden structures that support the bridge – will be saved and relocated to a display area to be nominated by the Southland District Council's Riverton Community Board.

Work this year will focus on establishing the working area and safety measures such as fencing. The bridges and causeways will be left secure over the Christmas/New Year holiday period.

The bulk of the demolition work will happen in February and March 2001, with final completion of the removal works expected by May 2001.

Opus International Consultants was contracted by LINZ to oversee the demolition of the bridge, and they in turn appointed Steve Rout Contractors to complete the removal work.

For further information contact:

**David Morgan, Crown Property Management,
Land Information New Zealand, ph (07) 834 6762,
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A Howe truss, one of the wooden supporting structures, will be preserved for display.

FEES NEWS

When you're informed that fees are going to be 'adjusted', you can be fairly sure the direction will be upwards. Fortunately that's not always the case.

Crown property regulatory functions

Cabinet has agreed to amend the fixed fees for the LINZ Crown property regulatory functions to which fees and charges apply. The fees apply largely to government organisations involved in acquisition or disposal of Crown property. These functions are actions under various statutes for which the Chief Executive of LINZ has accountability, namely:

- Public Works Act 1981
- Land Act 1948
- Local Government Act 1974
- Te Ture Whenua Maori Act 1993
- Waikato Raupatu Claims Settlement Act 1995
- Ngai Tahu Claims Settlement Act 1998.

These fees are set in line with the cost of fixed overheads. Because the volumes of work are changing, the fees can be adjusted accordingly. In some cases the fees can be reduced as the overhead costs are spread over a greater number of transactions.

Fees for most Crown property regulatory functions will reduce by between 2-37%. A few will remain the same and there is an increase in just one case.

New fees are also being established for actions pursuant to:

- the recently enacted Ngati Turangitukua Claims Settlement Act 1999; and
- the Ngai Tahu Claims Settlement Act, the Public Works Act, and the Land Act.

The regulations required to promulgate the new fees are expected to be in place early next year.

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Landonline security fee component reduced

Future **Landonline** subscribers can look forward to lower than expected sign-on charges as a result of the elimination of the need for the security component of their installation fees. This comes thanks to a streamlining in the way the **Landonline** software is hosted. Licensed users will now access **Landonline**

software through a central server, rather than holding it on their own sites.

This simplifies security issues and means that the security component in the installation charge and the additional \$130 security charge for each further user licensed can now be abolished. The installation fee will now be a single charge of \$230 per licensed site irrespective of the number of users located on that site. The new charge covers the cost of the additional software licences that will be required, together with a general administration component.

At this stage there are no plans to change the maintenance fee of \$440, which will be charged retrospectively from the end of the first year of operation.

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Bulk survey data

As **Landonline** rolls out, a new bulk survey data product will become available for purchase from LINZ for only the cost of its dissemination. This data provides the land parcel framework for geographic information systems, such as those operated by local authorities and utility companies. The requirements for this type of data have up until now been met from the Digital Cadastral Database (DCDB), which is being phased out with the introduction of **Landonline**.

The LINZ price for the new bulk survey data product from **Landonline** will be \$270 including GST for a full national copy, or part thereof during the phase in period. By comparison, a full national copy of the DCDB is \$800,000 per annum.

The new fee is scheduled for introduction in late January 2001. The LINZ web site will announce the introduction date and other details as they are finalised.

The change follows a similar move a year ago with LINZ topographic information. As a result of that change many customers have taken advantage of its freeing-up. Areas such as the agriculture and health sectors have been quick to take advantage of being able to use this data without prohibitive fees.

Most of the survey data in **Landonline** is being upgraded to survey accuracy. Storing this survey accurate data requires more complex data and file structures than those of the DCDB, where data was only stored as coordinates. This means that the raw bulk survey data output from **Landonline** is much

more complex than that supplied from the DCDB. It will therefore require more transformation before it can be assimilated into a geographic information system (GIS).

LINZ expects to have only a limited number of direct customers for this data due to its volume (eventually some 30Gb), the media it is supplied on and the amount of processing required before it can be incorporated into a GIS. To assist smaller organisations and individuals with GIS systems, LINZ will maintain a list of data resellers on its web site. The resellers will service the market needs for smaller geographic subsets of this data in various data formats.

The change will occur with the introduction of **Landonline** in each region, starting in the south. Once the Digital Cadastral Database (DCDB) has been transferred into **Landonline** the DCDB will be terminated in that region. By late 2002 the DCDB will cease to exist.

LINZ will be making regular programmed-extractions of bulk survey data from the **Landonline** system. It is anticipated that these extractions will be made on a monthly basis. LINZ will also examine options for providing more regular updates to external parties. It is possible that these updates may be made available on our web site at no charge.

Making this data available for only the marginal cost of dissemination is in line with the Government's policy for government-held information. The pricing removes all Crown copyright fees for the use of the Crown's intellectual property. However, the Crown retains its copyright and still requires it to be acknowledged. This protects the integrity and authoritative nature of the Crown's data.

It is expected that making this new **Landonline** bulk survey data available at a low fee and without copyright fees will open up great opportunities for the development of geographic information systems. These will underpin everything from improved environmental management to socio-economic development.

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NZ HYDROGRAPHIC CHARTS TO BE AVAILABLE ON CD

New Zealand's hydrographic charts will be available on a CD-ROM. One hundred and ten charts on WGS84 datum are due to be published in the last quarter of this financial year. The data will be called NZ Mariner.

The rasterised charts will be used by commercial shipping and fishing vessels, but there will also be a demand from recreational mariners, according to Michael Farrell, Hydrographic Information Manager, in Land Information New Zealand.

Michael points out that while the electronic versions of the charts do not change the obligations of commercial vessels to carry paper charts, they do form part of the current navigational technology that's available for modern shipping. They also comply with Safety Of Life At Sea (SOLAS) requirements for Electronic Chart Display Information Systems (ECDIS).

In line with the abolition of copyright fees for Crown topographic and hydrographic data, the rasterised charts will be made available at a low level reflecting only the marginal cost of disseminating the information. A monthly update service will also be available to mariners for an annual fee.

Michael says the remaining charts will be rasterised and added to the folio later next year. These include 10 Pacific Island charts and 40 smaller scale coastal charts.

Contact for further information:

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ROBERT MUIR NEW REGISTRAR-GENERAL OF LAND

LINZ has appointed Robert (Robbie) Muir as Registrar-General of Land, following the move of former RGL Brendan Boyle to head the State Services Commission's E-Government Unit. Robbie has been acting RGL for the past 18 months, so his appointment will ensure a smooth transition for LINZ and its customers.

"Robbie has built up strong relationships with LINZ's major industry groups in his time as acting RGL, and has worked closely with the legal profession and others on the introduction of **Landonline**," says LINZ Chief Executive, Russ Ballard.

"As Registrar-General of Land he has a vital role to play in developing policy for a 'virtual' land environment where land

transactions and survey plans will be lodged and processed electronically."

One of the RGL's primary tasks is to set standards and guidelines for New Zealand's land registration system, which enables the Government to guarantee land title.

Robbie (35) has an LLB from Otago University and completed the Advanced Management Programme at Melbourne's Mt Eliza Business School earlier this month.

Contact for further information:

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Classic New Zealand map goes on line

A map that's become something of an icon within the traditions of New Zealand mapmaking has been given a new lease of life. Ironically it is the same kind of technology that's replaced the mapmaker's art that has made this particular map accessible to all.

The meticulously rendered colour relief map of New Zealand has been captured digitally and will be available soon free of charge through the LINZ web site. Any New Zealander who has browsed through an in-flight magazine will be familiar with the map which, for many years, was used as a base for flight route maps.

The original drawings of the North and South Islands were done during the 1960s by Julius Petro, a cartographer working for the then Lands and Survey Department. The painstaking work was done over a period of 18 months, using fine coloured pencil. Julius worked from aerial photographs, always taken with the sun at the same angle so that he could capture exactly the relief patterns etched into New Zealand's landscape.

LINZ Technical Policy Manager (Topo/Hydro) Heather Macfarlane was just starting her career in mapmaking when Julius Petro was midway through the project.

She recalls the incredible detail required for the 1:1,000,000 scale map. "Julius even went up on some of the aerial photography flights to ensure they were capturing what he needed to complete the project. He lined the photos up in rows

and painstakingly worked his way through the country, capturing the hills and valleys with delicate strokes of the pencil."

Heather says that relief shading is now done digitally; automated processes have slowly replaced the art of brush and pen.

The original maps were found when staff were sorting through some old mapping drawings, and it was decided to have high-resolution scans made and put the artwork on the LINZ web site for free use.

"This is in line with the recent abolition of copyright fees on topographic data," Heather says.

The map will be on the LINZ web site on www.linz.govt.nz

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