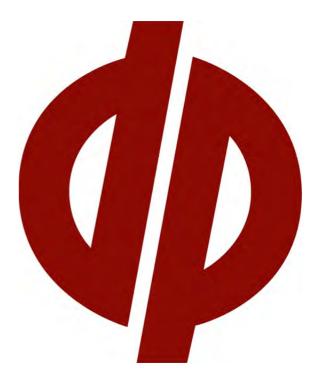


**Preliminary Site Investigation** 

Proposed Residential Subdivision Reeves Creek, Picton

> Prepared for Dartanyan Pty Ltd

Project 76579.03 February 2014





# **Document History**

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The undersigned, on behalf of Douglas Partners Pty Ltd, confirm that this document and all attached drawings, logs and test results have been checked and reviewed for errors, omissions and inaccuracies.

Signature	Date
Author Far JR	27 February 2014
Reviewer	> For LR. 27 February 2014



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# **Executive Summary**

This report presents the results of a Preliminary Site Investigation undertaken for the proposed subdivision of a site known as Reeves Creek in Picton. The investigation was commissioned by Cardno (NSW/ACT) Pty Ltd (Cardno), the project consultants, acting on behalf of Dartanyan Pty Ltd. The aim of the investigation was to assess the potential for site contamination resulting from past or present uses and/or features, and to provide preliminary information on the contamination status of the site.

The overall Reeves Creek site totals approximately 121 ha and comprises an irregular shaped area extending approximately 2 km southward from a Remembrance Drive frontage. It is bounded by Remembrance Drive to the north, the proposed Vault Hill development area and residential or rural lots to the west, rural land to the south, and rural land with some residential development to the east. Of the total area, three separate areas totalling approximately 56.5 ha have been nominated by Cardno for development and these areas are the subject of this investigation.

The site has generally been cleared of most of its original tree cover and is now mainly grass covered and used for grazing. There are areas of regrowth shrubs and small trees, particularly in areas disturbed by landslides, about the course of Reeves Creek (a tributary of Stonecutters Creek) and its associated drainage paths. Two homesteads and associated farm sheds are present on the site.

Based on a review of readily available site history information, the site appears to have been used for farming or agricultural purposes (cropping/cultivation and grazing) since at least 1901.

The site appears to have been used for farming or agricultural purposes since at least 1901. Six potential areas of environmental concern (AEC) have been identified within the site based on the site history review and the site walkover. Overall, however, it is considered that a low potential for site contamination exists. The potential AEC comprise the following:

- Potential AEC 1 A telecommunication tower and associated access road;
- Potential AEC 2 Four areas of former crop cultivation;
- Potential AEC 3 Two areas of ground disturbance, one located north and one located south of the cultivated areas;
- Potential AEC 4 Two homesteads;
- Potential AEC 5 A former building located adjacent (west) to the northern cultivation area; and
- Potential AEC 6 Dairy and farm sheds located east of the homesteads.

All the above mentioned potential AECs are essentially localised and pose little or no current risk to human health or the environment. The risks will be increased, however, under the proposed residential development and therefore the contamination status of soils beneath the AEC should be assessed prior to site re-development.

A more detailed, targeted investigation at the identified potential AEC would be required to confirm the contamination status and any requirements for remediation under the proposed land use. Based on our investigation, it is considered likely that the site can be rendered suitable for the proposed residential subdivision, subject to further investigation and remediation (if required).



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Preliminary Site Investigation Proposed Residential Subdivision Reeves Creek, Picton

# 1. Introduction

This report presents the results of a Preliminary Site Investigation (PSI) as part of an overall land capability assessment for the proposed residential subdivision of a site known as Reeves Creek in Picton. The investigation was commissioned by Cardno (NSW/ACT) Pty Ltd (Cardno), the project consultants, acting on behalf of Dartanyan Pty Ltd and was undertaken with reference to Douglas Partners Pty Ltd (DP) proposal CTW130145a dated 7 August 2013. Of the total area, three separate areas totalling approximately 56.5 ha have been nominated by Cardno for development. The development areas are defined as "the site" for the purposes of this assessment.

The site has been identified for potential re-zoning for urban development. The objective of the study is to assess the potential for site contamination resulting from past or present activities and/or land uses, and to provide preliminary information on the potential contamination status of the site. It is understood that the report will be used by the client to assist in the conceptual master planning for the project.

This investigation comprised a review of readily available site history information and a site walkover. The report was prepared with reference to EPA (2011) *Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites.* 

This assessment was undertaken concurrently with a slope stability assessment *Report on Slope Stability Assessment, Proposed Residential Subdivision, Reeves Creek, Picton* (Project 76579.01), (DP, 2013), which is reported separately and will form part of the overall land capability assessment of the development site.

A copy of the preliminary Reeves Creek Master Plan was provided by Cardno for use in the assessment.

# 2. Scope of Work

The scope of work comprised the following:

- A site history investigation to evaluate former site activities and land uses, including obtaining and reviewing:
  - o Review of historical aerial photography obtained through the Land Information Section of the Department of Finance and Services;

- o Review of previous site ownership using land titles obtained through the Land Titles Office;
- Search of the NSW EPA public registers established under the Contaminated Land Management Act (CLM)1997 and the Protection of the Environment Operations (POEO) Act 1997;
- o Search of the WorkCover Stored Chemical Information Database for current and historical dangerous goods licences;
- Review of site geology, hydrogeology and topography, including a search of the NSW Office of Water's database of registered groundwater bores;
- A site walkover to identify any areas/issues of concern and to evaluate general site conditions; and
- Preparation of this PSI report outlining the methodology and results, and provide comment on the potential contamination status of the site and recommendations for any additional investigations and/or remediation, as necessary.

# 3. Site Description

The overall Reeves Creek site totals approximately 121 ha and comprises an irregular shaped area extending approximately 2 km southward from a Remembrance Drive frontage. It is bounded by Remembrance Drive to the north, the proposed Vault Hill development area and residential or rural lots to the west, rural land to the south, and rural land with some residential development to the east. Of the total area, three separate areas totalling approximately 56.5 ha have been nominated by Cardno for development (refer to the blue boundaries on Figure 1 below). The areas beyond the development areas have not been considered as part of this investigation.

A site plan (aerial photograph, 2012) and locality map are shown on Drawing 1, Appendix A.

The site comprises three distinct areas as follows:

Douglas Partners

- An irregularly shaped area (Area 1 for the purposes of this report), approximately 180 m wide extending approximately 780 m mostly along the southern side of Remembrance Drive. It comprises mostly northeast-facing slopes of Vault Hill which lie between approximately RL 209 m relative to Australian Height Datum (AHD), at the central section of the north-eastern boundary, to 265 m AHD at the crest of a ridgeline extending southeast from Vault Hill, which rises to approximately 294 m AHD. The upper and mid-slopes are characterised by steep to very steep sections, particularly where slope instability has resulted in scarps. A semi-continuous cliff line, bounding the crest section of Vault Hill, is present along part of the western boundary of this investigation area.
- An elongated, irregularly shaped, variously approximately 130 m to 520 m wide area (Area 2 for the purposes of description) extending 1400 m south-south-easterly from its boundary with the Vault Hill site. It comprises mostly west-facing footslopes of the ridge extending southeast from Vault Hill, but also includes some mid-slope areas, particularly at the south-eastern end of the site. Surface elevations range from RL 265 at the south-eastern end of the site to RL 160 at the western boundary section adjacent to Menangle Street. The western boundary of the investigation area intersects or lies adjacent to the course of Reeves Creek.



• An irregularly shaped area (Area 3 for the purposes of description) with maximum width of approximately 220 m located near the overall western site boundary with Menangle Street. It comprises a ridge crest at RL 200 and gentle to moderately sloping, east to north-facing hillslopes falling to RL 170 adjacent to the course of Reeves Creek.

The areas have generally been cleared of most of their original tree cover and are now mainly grass covered and are used for grazing. There are areas of regrowth shrubs and small trees, particularly in areas disturbed by landslides, about the course of Reeves Creek (a tributary of Stonecutters Creek) and its associated drainage paths.

There are several, discontinuous drainage paths, some displaced from their original paths by landslide debris, within or immediately upslope of the investigation areas. Erosion and entrenchment of these paths is limited in depth. The course of Reeves Creek and its associated gullies have entrenched the footslopes within Area 2 to depths of up to approximately 10 m.

# 4. Proposed Development

The Draft Reeves Creek Master Plan (refer Figure 1, below) dated 12 September 2012, includes within the current site boundaries proposed residential lots of varying sizes, access roads with a connection from Area 1 to the adjacent Vault Hill site, areas for public recreation and environmental conservation. Access will be developed from Remembrance Drive, Margaret Street and Menangle Street.

The proposed site layout is overlain in Figure 1 by the nominated investigation areas and the identified, probably historical slump-flow landslide affected areas (refer Drawings 2 to 5 in DP (2013) for details).



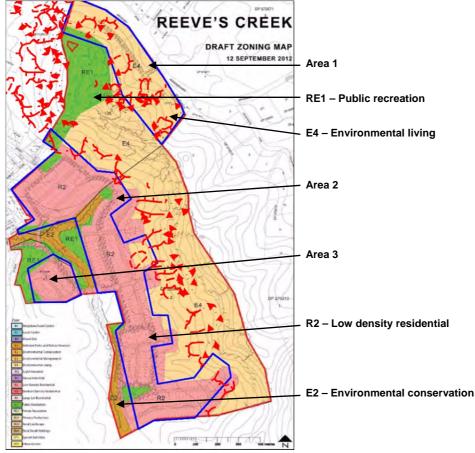


Figure 1: Reeves Creek Master Plan with overlay of landslide features

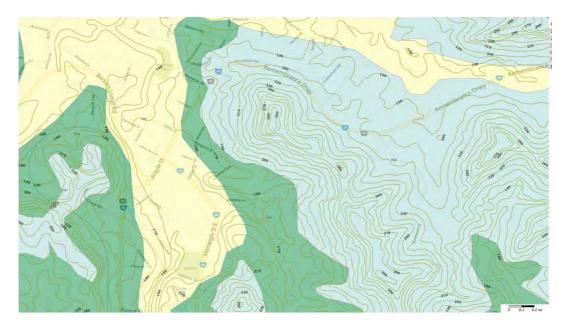
# 5. Regional Geology, Soil Landscapes and Hydrogeology

#### 5.1 Geology

The Wollongong – Port Hacking 1:100 000 Geological Series Sheet indicates that the site is underlain by rocks of the Wianamatta Group of Triassic age. All of Area 1 and the mid-slope areas of Area 2 are underlain by Bringelly Shale which typically comprises thinly bedded shale, siltstone, carbonaceous claystone, fine grained sandstone, laminite and some minor coaly bands. These rocks weather to form clays of high plasticity. Vault Hill and its associated south easterly trending ridgeline are capped by a thick, unnamed sandstone bed within the Bringelly Shale.

Most of the footslope areas are mapped as being underlain by Ashfield Shale, which comprises predominantly laminite and claystone. The boundary between Bringelly Shale and Ashfield Shale is typically marked by the Minchinbury Sandstone which ranges from approximately 1.5 m to 3.5 m thick. The field mapping indicated a fine grained sandstone band, somewhat inconsistent with the typical Ashfield Shale strata, in the base of Reeves Creek. This indicates that the mapped boundary may be inaccurate.





The Ashfield Shale (Rwa) and Bringelly Shale (Rwb) are shown on Figure 2, below.

Figure 2: Reeves Creek regional geology

#### 5.2 Soil Landscapes

The Soil Landscapes of the Wollongong – Port Hacking 1:100 000 Sheet indicates that the Picton soil landscape is mapped over all of the northern and eastern portions of the site. The remainder of the site, with the exception of a small section of disturbed terrain (located at an isolated area located approximately midway along the western boundary), are within the Luddenham soil landscape.

The Picton soil landscape is a colluvial landscape, developed on the Wianamatta Group rocks and derived colluvial materials. It is characterised by steep to very steep side slopes (slope gradients of 20% [11°] to 80% [39°]) with local relief of 90 m to 300 m and indications of widespread mass movements, predominantly soil creep and slumping.

The Luddenham soil landscape (soil mapping unit lu) is an erosional landscape which is also developed on the Wianamatta Group rocks. It is characterised by rolling to steep low hills (slope gradients of 5% [3°] to 20% [11°]; dominantly 10% [6°] to 15% [9°]) with local relief of 50 m to 80 m.

The isolated area mapped as disturbed terrain is probably due to earlier farming development within the Luddenham soil landscape. It is noted, however, that there is no current evidence of disturbance at this portion of the site.



The disturbed terrain (xx), Picton colluvium (pn) and Luddenham erosional (lu) are shown on Figure 3, below.



Figure 3: Reeves Creek regional geology

## 5.3 Hydrogeology

Several references (McNally, 2004; McNally, 2005; McNally, 2009; Old, 1942; Russell, et al, 2009; Wooley, 1991) describe some general features of the hydrogeology of western Sydney which are relevant to this site. The shale terrain of much of western Sydney is known for saline groundwater, resulting either from the release of connate salt in shales of marine origin or from the accumulation of windblown sea salt. Seasonal groundwater level changes of 1 m to 2 m can occur in a shallow regolith aquifer or a deeper shale aquifer due to natural influences.

The unweathered shale rock unit is effectively impermeable and the few bores drilled into the unweathered shales in the Sydney area are generally dry or yielding small flows of saline groundwater, typically with total dissolved salts (TDS) contents of 10,000 mg/L to 30,000 mg/L (Old, 1942; McNally, 2004).

Groundwater investigations undertaken by DP in the Camden area underlain by the Wianamatta Group and Quaternary alluvium indicate that:

- The shales have a very low intrinsic permeability, hence groundwater flow is likely to be dominated by fracture flow with resultant low yields (typically < 1 L/s) in bores; and
- The groundwater in the Wianamatta Group is typically brackish to saline with total dissolved solids (TDS) in the range 4000 mg/L to 5000 mg/L. The dominant ions are typically sodium and chloride and the water being generally unsuitable for livestock or irrigation.



Regional groundwater flow beneath the site is likely to reflect the regional topography and flow towards the non-perennial drainage lines to the north and south of Vault Hill and westwards towards Stonequarry Creek which is located approximately 400 m to the west of the site.

## 6. Review of Site History Information

The site history investigation is undertaken to identify current and former land uses, and potentially contaminating activities (e.g. filling or similar disturbances) resulting in the identification of potential areas of environmental concern (AEC). The following sections summarise the results of the investigations undertaken for the site.

#### 6.1 NSW EPA Public Registers

A search on the 15 October 2013 for Statutory Notices current under the *Contaminated Land Management Act 1997 (CLM Act)* and *Protection of the Environment Operation Act 1997* (POEO Act) available on the NSW EPA website showed that no notices under the CLM Act have been issued on the subject site. No notices have been issued for the site under the POEO Act.

#### 6.2 WorkCover Search

WorkCover NSW conducted a search of their Stored Chemical Information Database and microfiche records on 26 August 2013 on Menangle Street and Remembrance Drive, Picton, and did not locate any records pertaining to the site. A copy of the search results is provided in Appendix B.

#### 6.3 Groundwater Bore Database

A search of the groundwater bore database administered by the NSW Office of Water indicated that several registered bores were located within approximately 2 km of the site. Information was available for five of these registered bores. Three bores were situated to the north of the site and the use of two of the three bores was listed as 'domestic' and privately owned, and one was described as 'recreational', operated by the local bowling club. Groundwater levels were recorded at 5 m, 21 m and 64 m below ground level. Two bores were located to the south and east of the site and their use was listed as 'domestic bores for irrigation and stock'. The groundwater level was recorded at 150 m below ground level. All bores were generally drilled through clay, shale and sandstone. The groundwater level at the site is expected to differ from nearby registered bores due to different elevations and the distance from these bores.



#### 6.4 Historical Aerial Photography

Aerial photographs were examined with a view to identifying potentially contaminating land uses or significant environmental features. Seven aerial photographs were examined from the years 1955, 1966, 1975, 1983, 1994, 2005 and 2012 and copies are included in Appendix A. A summary of the findings is given below:

**1955:** The site was predominately vacant with several small buildings (including a possible homestead), a driveway and a possible shed located on the western boundary. The site was cleared with minimal vegetation cover, possible cropping or ground disturbance had occurred along the western boundary. There were residential lots along Remembrance Driveway and Menangle Street which runs along the eastern boundary.

**1966:** The site remained relatively unchanged; several dirt tracks ran from the homestead to the eastern boundary of the site. Some more residential development was present to the east of the site.

**1975:** The site remained unchanged. Possible ground disturbance was present toward the western boundary in the vicinity of a possible homestead. Further residential development was present to the east, south and south-east of the site and construction of what is now Ramsay Street was located to the north west of the site boundary. A single building and associated driveway, most likely residential, were located to the north of the site.

**1983:** The site remained relatively unchanged. Another homestead appeared to have been built to the north of the existing homestead. There appeared to be a crop or a ground disturbance in the central-western portion of the site. There was further residential development to the north-west, west and south of the site and a dam had been constructed and a farm to the north of the site.

**1994:** The site appeared relatively unchanged from the previous aerial photograph. A further increase in residential development was present to the north, north-west, north-east, west and south of the site.

**2005:** The site appeared relatively unchanged from the previous aerial photograph, with the exception of some additional dirt tracks from the homestead to the north-east corner of the site. There appeared to have been further residential development to the east and north of the site.

**2012 (Drawing 1):** The site appeared relatively unchanged from the previous aerial photograph, with the exception of increasing vegetation cover in the central portion of the site. There appears to be an increase in the density of residential development surrounding the site.

#### 6.5 Previous Site Ownership

The site predominantly comprises three large Lots with some smaller Lots. A title deeds search was conducted by Service First Registration Pty Ltd, Legal Agents, on the three main Lots. The title information can assist in the identification of previous land uses through the recorded occupation of individual land owners or by a descriptive company name. This may, therefore, establish potentially contaminating activities occurring at the site. A summary of the results of the site history and title deeds search are shown in the tables below. The full results of the search are given in Appendix C.



Term held	Owner and Occupation	Inferred land use
1901 to 1921	Robert Henry Antill (Esquire, Grazier)	Agricultural
1923 to 1946	Percy Hanger (Farmer)	Agricultural
1946 to 1967	Albert Edward Baxter (Dairy Farmer) Joseph Edward Wonson (Dairy Farmer)	Agricultural
1967 to 1969	Joseph Edward Wonson (Dairy Farmer)	Agricultural
1969 to 1972	Trevor Sell (Coal Miner)	Rural/Residential
1972 to date	# Alan Stewart Wilton # Carol Lesley Wilton	Rural/Residential

#### Table 1: Previous Site Ownership for Lot 9 in Deposited Plan 233840

# Denotes current Registered Proprietor

Table 2:	Previous \$	Site (	Ownership <sup>•</sup>	for Lo	t 2 in	Deposited	Plan 229679
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Term held	Owner and Occupation	Inferred land use
1901 to 1923	Robert Henry Antill (Esquire, Grazier)	Agricultural
1923 to 1946	Percy Hanger (Farmer)	Agricultural
1946 to 1967	Albert Edward Baxter (Dairy Farmer) Joseph Edward Wonson (Dairy Farmer)	Agricultural
1967 to 1967	Albert Edward Baxter (Dairy Farmer)	Agricultural
1967 to 1974	Albert Edward Baxter (Dairy Farmer) Lesley Robert Baxter (Dairy Farmer)	Agricultural
1974 to date	# Lesley Robert Baxter	Rural/Residential

# Denotes current Registered Proprietor

#### Table 3: Previous Site Ownership for Lot 106 Deposited Plan 1111043

Term held	Owner and Occupation	Inferred land use
1901 to 1921	Robert Henry Antill (Esquire, Grazier)	Agricultural
1921 to 1961	Edward Baxter (Farmer)	Agricultural
1961 to 1980	Albert Edward Baxter (Farmer)	Agricultural
1980 to date	# Leslie Robert Baxter (Dairy Farmer)	Agricultural

# Denotes current Registered Proprietor

The historical title deeds indicate various private individuals have owned the three main lots which comprise the bulk of the site.



#### 6.6 Summary of Site History Information

Based on a review of readily available site history information, the site appears to have been used for farming or agricultural purposes (cropping/cultivation and grazing) since at least 1901.

# 7. Site Walkover

A site walkover was undertaken by an environmental engineer on 20 August 2013. The following was noted during the site walkover:

- The site was generally used for grazing purposes, with much of the land too steep for cultivation.
- A dwelling was constructed on the entrance to the property of Baxters Lane.
- A dairy and farm sheds, including cattle yards were noted in the centre of the site to the east of the dwelling. The farm sheds were surrounded by small stockpiles of soil and farm machinery.
- Evidence of a former building was noted adjacent (west) to the northern area of cultivation.
- A telecommunication tower and associated access road was located at the northern portion of the site.

# 8. Potential for Site Contamination

The site appears to have been used for farming or agricultural purposes since at least 1901. Six potential areas of environmental concern (AEC) have been identified within the site based on the site history review and the site walkover. Overall, however, it is considered that a low potential for site contamination exists. The potential AEC are shown on Drawing 8, Appendix A (overlain on the 1983 aerial photograph) and comprise the following:

- Potential AEC 1 A telecommunication tower and associated access road;
- Potential AEC 2 Four areas of former crop cultivation;
- Potential AEC 3 Two areas of ground disturbance, one located north and one located south of the cultivated areas;
- Potential AEC 4 Two homesteads;
- Potential AEC 5 A former building located adjacent (west) to the northern cultivation area; and
- Potential AEC 6 Dairy and farm sheds located east of the homesteads.

All the above mentioned potential AECs are essentially localised and pose little or no current risk to human health or the environment. The risks will be increased, however, under the proposed residential development and therefore the contamination status of soils beneath the AEC should be assessed prior to site re-development.



# 9. Conclusion and Recommendations

The aim of the investigation was to assess the potential for site contamination resulting from past or present uses and/or features, and to provide preliminary information on the contamination status of the site. The investigation has shown that there is a low potential for contamination from the potential AEC as discussed in Section 8.

A more detailed, targeted investigation at the identified potential AEC would be required to confirm the contamination status and any requirements for remediation under the proposed land use. The targeted investigation should be completed with reference to appropriate guidelines including NEPC (2013a, 2013b and 2013c), OEH (2011) and DEC (2006).

Based on the results of our investigation, it is considered likely that the site can be rendered suitable for the proposed residential subdivision, subject to further investigation and remediation (if required).

#### 10. References

- 1. Department of Environment and Conservation (2006) Contaminated Sites Guidelines for the NSW Site Auditor Scheme 2nd Edition
- 2. Douglas Partners (2013) Report on Slope Stability Assessment, Proposed Residential Subdivision, Reeves Creek, Picton (Ref 76579.01)
- 3. McNally, GH (2005) Investigation of urban salinity case studies from western Sydney. UrbanSalt 2005 Conference Paper, Parramatta
- 4. McNally, GH (2004) Shale, salinity and groundwater in western Sydney, Australian Geomechanics 39(3), pp 109 123
- McNally, GH (2009) Soil and groundwater salinity in the shales of western Sydney, Groundwater in the Sydney Basin Symposium, International Association of Hydrogeologists, pp 228 – 235
- National Environment Protection Council (2013a) National Environment Protection (Assessment of Site Contamination) Measure (NEPM, 1999 – amended 2013) Schedule B1 Investigation Levels for Soil and Groundwater
- National Environment Protection Council (2013b) National Environment Protection (Assessment of Site Contamination) Measure (NEPM, 1999 – amended 2013) Schedule B2 Site Characterisation
- National Environment Protection Council (2013c) National Environment Protection (Assessment of Site Contamination) Measure (NEPM, 1999 – amended 2013) Schedule B3 Guideline on Laboratory Analysis of Potentially Contaminated Soils



- 9. Office of Environment and Heritage (2011) Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites
- 10. Old, AN (1942) The Wianamatta Shale waters of the Sydney district, NSW Agricultural Gazette, pp 215 221
- Russell G, McKibbin D, Williams J and Gates G A (2009) Groundwater Resource Assessment of the Triassic rocks of the Sydney Basin, Groundwater in the Sydney Basin Symposium, International Association of Hydrogeologists, pp 312 – 328
- 12. Wooley D (1991) Groundwater in Jones DC and Clark NR (editors) Geology of the Penrith 1:100,000 sheet, pp 119 121. NSW Geological Survey, Sydney, 202p

# 11. Limitations

Douglas Partners Pty Ltd (DP) has prepared this report for this project at the proposed Reeves Creek development site, Picton, with reference to DP's proposal CTW130145a dated 7 August 2013. The work was carried out under DP's Conditions of Engagement. This report is provided for the exclusive use of Dartanyan Pty Ltd for this project only and for the purposes as described in the report. It should not be used by or be relied upon for other projects or purposes on the same or other site or by a third party. Any party so relying upon this report beyond its exclusive use and purpose as stated above, and without the express written consent of DP, does so entirely at its own risk and without recourse to DP for any loss or damage. In preparing this report DP has necessarily relied upon information provided by the client and/or their agents.

The results provided in the report are indicative of the sub-surface conditions on the site only at the specific sampling and/or testing locations, and then only to the depths investigated and at the time the work was carried out. Sub-surface conditions can change abruptly due to variable geological processes and also as a result of human influences. Such changes may occur after DP's field testing has been completed.

DP's advice is based upon the conditions encountered during this investigation. The accuracy of the advice provided by DP in this report may be affected by undetected variations in ground conditions across the site between and beyond the sampling and/or testing locations. The advice may also be limited by budget constraints imposed by others or by site accessibility.

This report must be read in conjunction with all of the attached and should be kept in its entirety without separation of individual pages or sections. DP cannot be held responsible for interpretations or conclusions made by others unless they are supported by an expressed statement, interpretation, outcome or conclusion stated in this report.

This report, or sections from this report, should not be used as part of a specification for a project, without review and agreement by DP. This is because this report has been written as advice and opinion rather than instructions for construction.



The contents of this report do not constitute formal design components such as are required, by the Health and Safety Legislation and Regulations, to be included in a Safety Report specifying the hazards likely to be encountered during construction and the controls required to mitigate risk. This design process requires risk assessment to be undertaken, with such assessment being dependent upon factors relating to likelihood of occurrence and consequences of damage to property and to life. This, in turn, requires project data and analysis presently beyond the knowledge and project role respectively of DP. DP may be able, however, to assist the client in carrying out a risk assessment of potential hazards contained in the Comments section of this report, as an extension to the current scope of works, if so requested, and provided that suitable additional information is made available to DP. Any such risk assessment would, however, be necessarily restricted to the environmental components set out in this report and to their application by the project designers to project design, construction, maintenance and demolition.

**Douglas Partners Pty Ltd** 

# Appendix A

About this Report Drawings

# About this Report

#### Introduction

These notes have been provided to amplify DP's report in regard to classification methods, field procedures and the comments section. Not all are necessarily relevant to all reports.

DP's reports are based on information gained from limited subsurface excavations and sampling, supplemented by knowledge of local geology and experience. For this reason, they must be regarded as interpretive rather than factual documents, limited to some extent by the scope of information on which they rely.

#### Copyright

This report is the property of Douglas Partners Pty Ltd. The report may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Engagement for the commission supplied at the time of proposal. Unauthorised use of this report in any form whatsoever is prohibited.

#### **Borehole and Test Pit Logs**

The borehole and test pit logs presented in this report are an engineering and/or geological interpretation of the subsurface conditions, and their reliability will depend to some extent on frequency of sampling and the method of drilling or excavation. Ideally, continuous undisturbed sampling or core drilling will provide the most reliable assessment, but this is not always practicable or possible to justify on economic grounds. In any case the boreholes and test pits represent only a very small sample of the total subsurface profile.

Interpretation of the information and its application to design and construction should therefore take into account the spacing of boreholes or pits, the frequency of sampling, and the possibility of other than 'straight line' variations between the test locations.

#### Groundwater

Where groundwater levels are measured in boreholes there are several potential problems, namely:

 In low permeability soils groundwater may enter the hole very slowly or perhaps not at all during the time the hole is left open;

- A localised, perched water table may lead to an erroneous indication of the true water table;
- Water table levels will vary from time to time with seasons or recent weather changes. They may not be the same at the time of construction as are indicated in the report; and
- The use of water or mud as a drilling fluid will mask any groundwater inflow. Water has to be blown out of the hole and drilling mud must first be washed out of the hole if water measurements are to be made.

More reliable measurements can be made by installing standpipes which are read at intervals over several days, or perhaps weeks for low permeability soils. Piezometers, sealed in a particular stratum, may be advisable in low permeability soils or where there may be interference from a perched water table.

#### Reports

The report has been prepared by qualified personnel, is based on the information obtained from field and laboratory testing, and has been undertaken to current engineering standards of interpretation and analysis. Where the report has been prepared for a specific design proposal, the information and interpretation may not be relevant if the design proposal is changed. If this happens, DP will be pleased to review the report and the sufficiency of the investigation work.

Every care is taken with the report as it relates to interpretation of subsurface conditions, discussion of geotechnical and environmental aspects, and recommendations or suggestions for design and construction. However, DP cannot always anticipate or assume responsibility for:

- Unexpected variations in ground conditions. The potential for this will depend partly on borehole or pit spacing and sampling frequency;
- Changes in policy or interpretations of policy by statutory authorities; or
- The actions of contractors responding to commercial pressures.

If these occur, DP will be pleased to assist with investigations or advice to resolve the matter.

# About this Report

#### **Site Anomalies**

In the event that conditions encountered on site during construction appear to vary from those which were expected from the information contained in the report, DP requests that it be immediately notified. Most problems are much more readily resolved when conditions are exposed rather than at some later stage, well after the event.

#### **Information for Contractual Purposes**

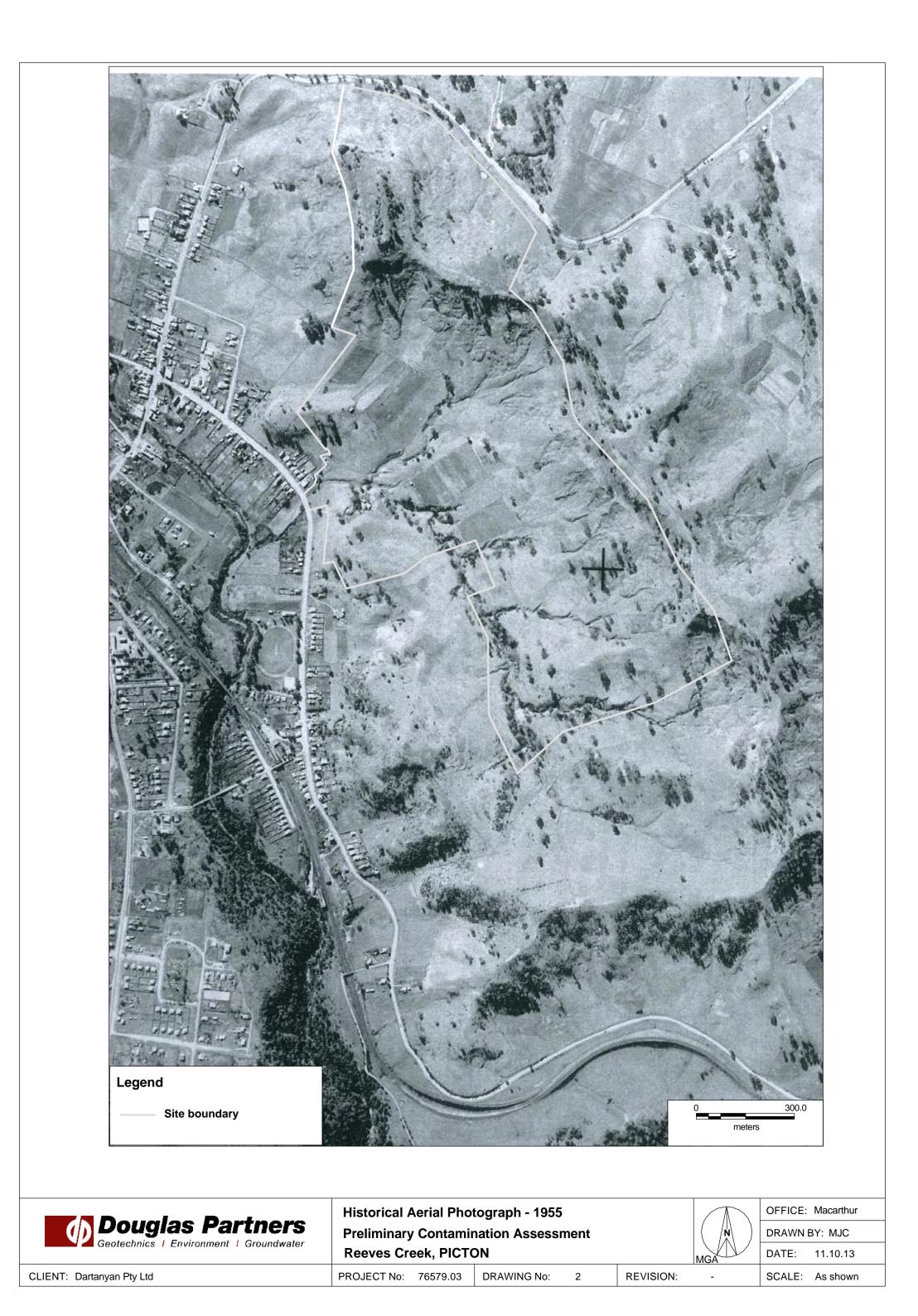
Where information obtained from this report is provided for tendering purposes, it is recommended that all information, including the written report and discussion, be made available. In circumstances where the discussion or comments section is not relevant to the contractual situation, it may be appropriate to prepare a specially edited document. DP would be pleased to assist in this regard and/or to make additional report copies available for contract purposes at a nominal charge.

#### **Site Inspection**

The company will always be pleased to provide engineering inspection services for geotechnical and environmental aspects of work to which this report is related. This could range from a site visit to confirm that conditions exposed are as expected, to full time engineering presence on site.



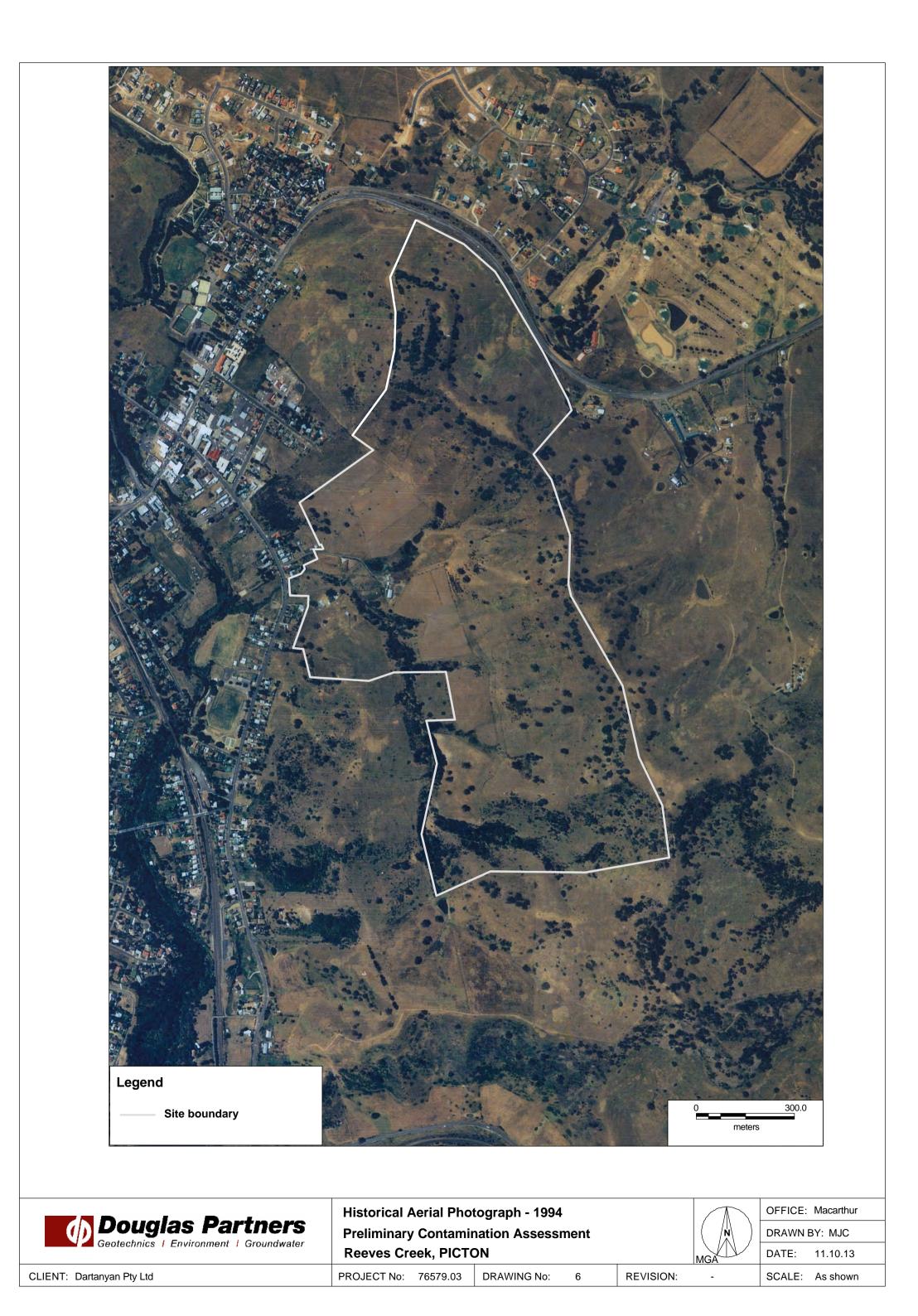
Legend Reeves Creek Boundary Site Boundary				meters	<u>30</u> 0.0
	Site Locality				OFFICE: Macarthur
<b>Douglas Partners</b> Geotechnics   Environment   Groundwater	Preliminary Contamination Assessment				DRAWN BY: MJC
	Reeves Creek, PICTON				DATE: 08.01.14
CLIENT: Dartanyan Pty Ltd	PROJECT No: 76579.03	DRAWING No: 1	REVISION:	-	SCALE: As shown



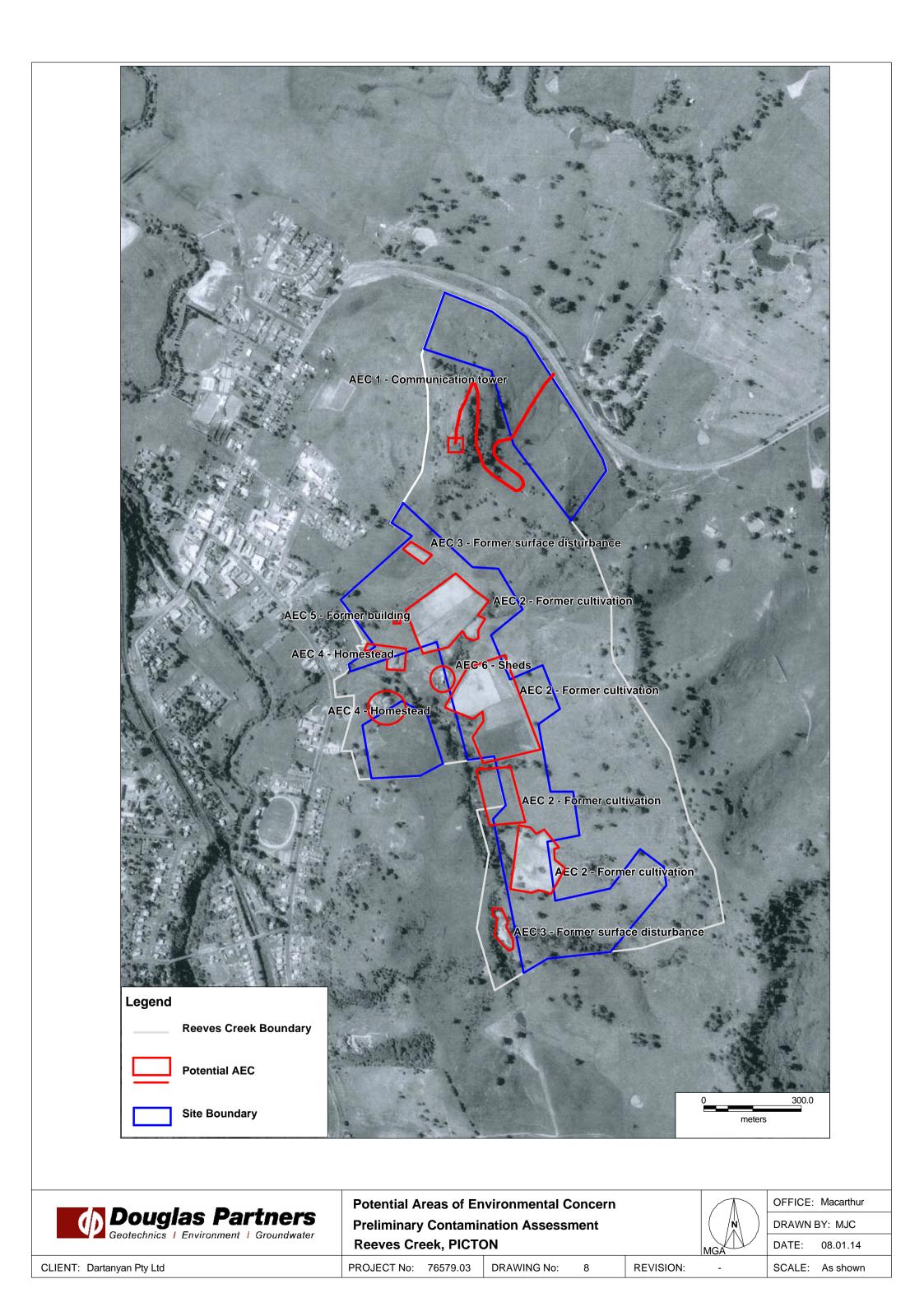












# Appendix B

WorkCover Search Results



WorkCover NSW 92-100 Donnison Street, Gosford, NSW 2250 Locked Bag 2906, Lisarow, NSW 2252 T 02 4321 5000 F 02 4325 4145 WorkCover Assistance Service 13 10 50 DX 731 Sydney workcover.nsw.gov.au

26 August 2013

Your Ref: John Russell

Attention: John Russell Douglas Partners 5/50 Topham Rd Smeaton Grange NSW 2567

Dear Mr Russell,

## **RE SITE: Menangle St & Remembrance Driveway Picton NSW**

I refer to your site search request received by WorkCover NSW on 23 August 2013 requesting information on licences to keep dangerous goods for the above site.

A search of the Stored Chemical Information Database (SCID) and the microfiche records held by WorkCover NSW has not located any records pertaining to the above mentioned premises.

If you have any further queries please contact the Dangerous Goods Licensing Team on (02) 4321 5500.

Yours Sincerely

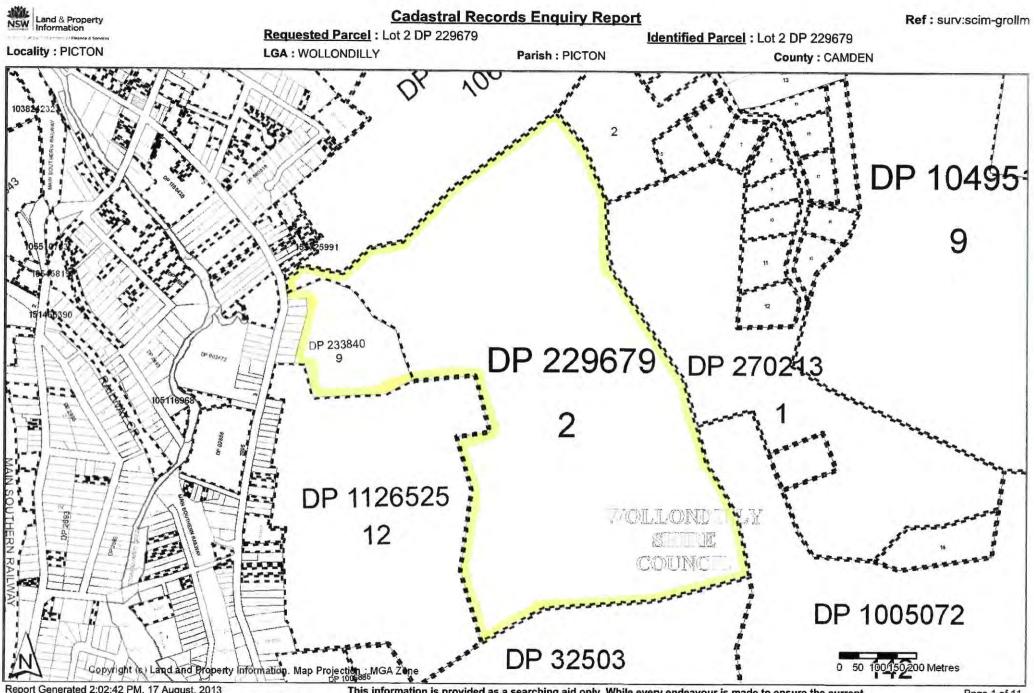
Brent Jones Senior Licensing Officer Dangerous Goods Team



# Appendix C

Historical Title Deeds

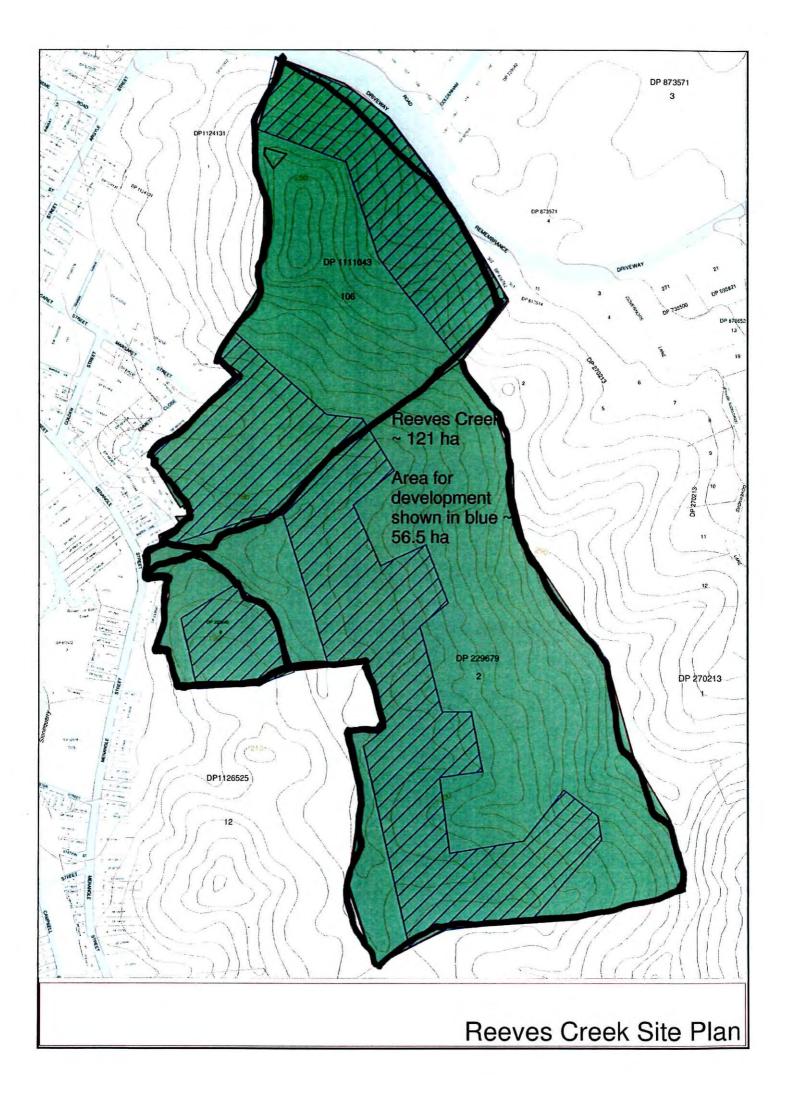




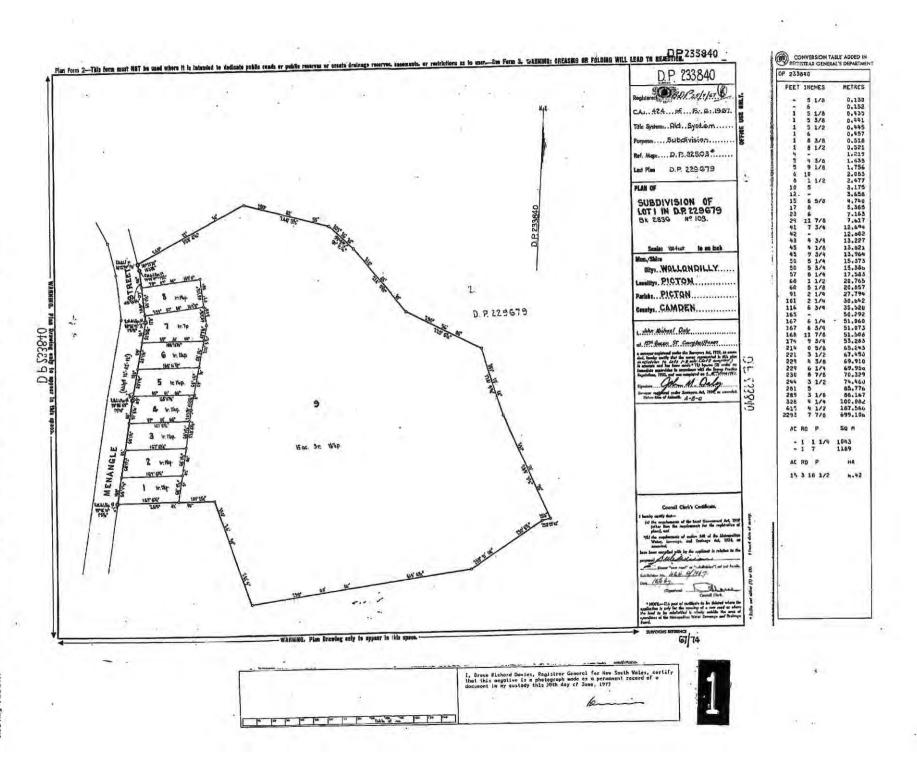
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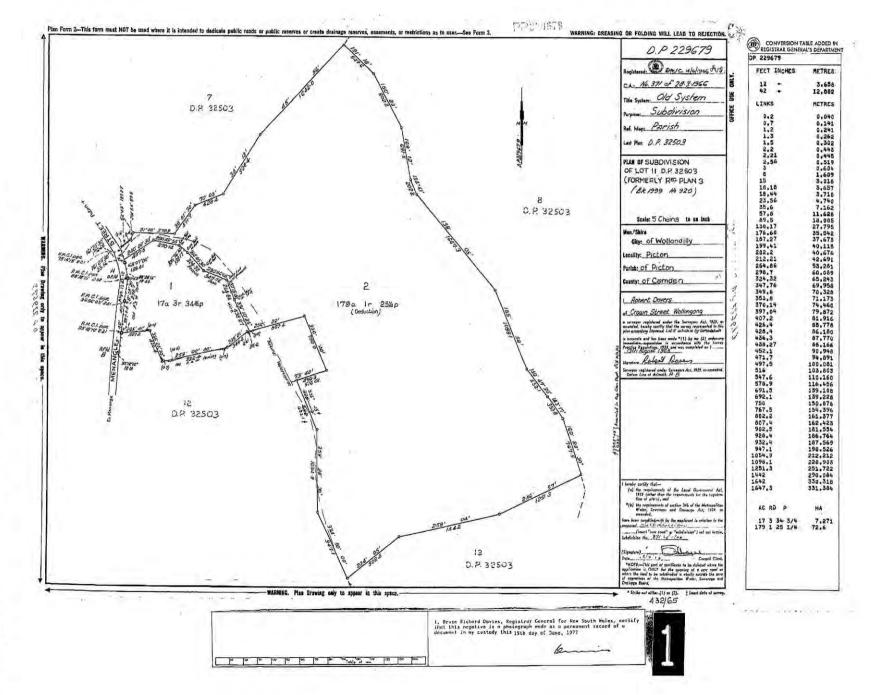
This information is provided as a searching aid only. While every endeavour is made to ensure the current cadastral pattern is accurately reflected, the Registrar General cannot guarantee the information provided. For all ACTIVITY PRIOR to SEPT 2002 you must refer to the RGs Charting and Reference Maps.

Page 1 of 11





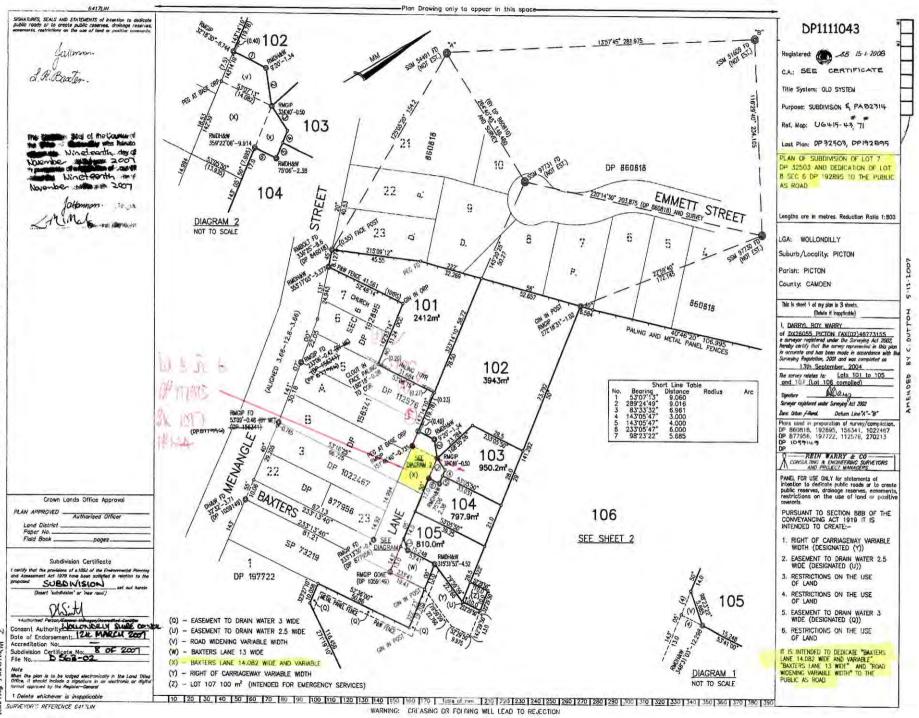




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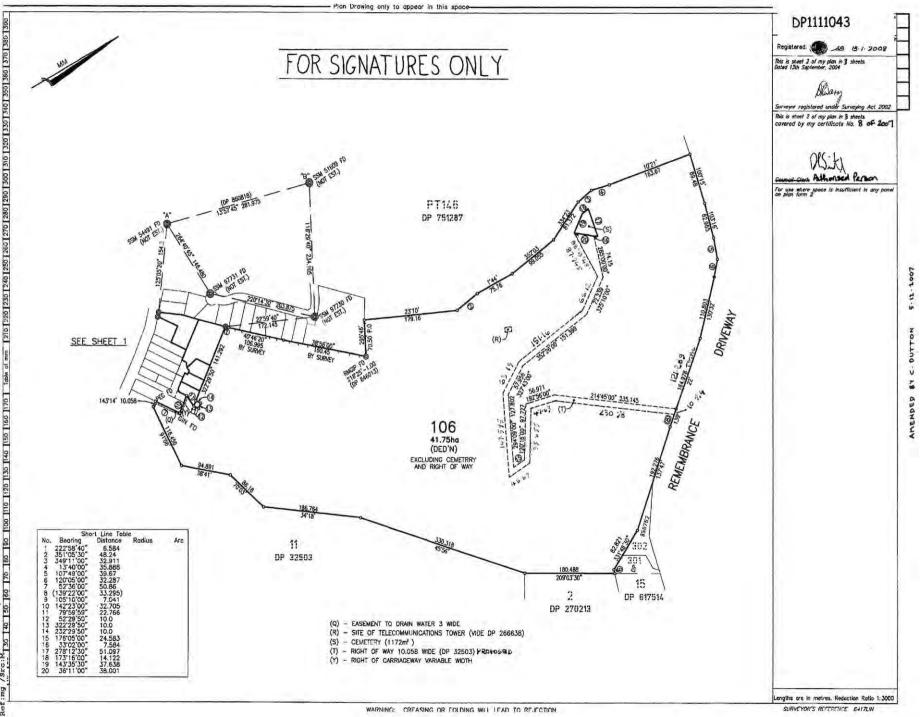
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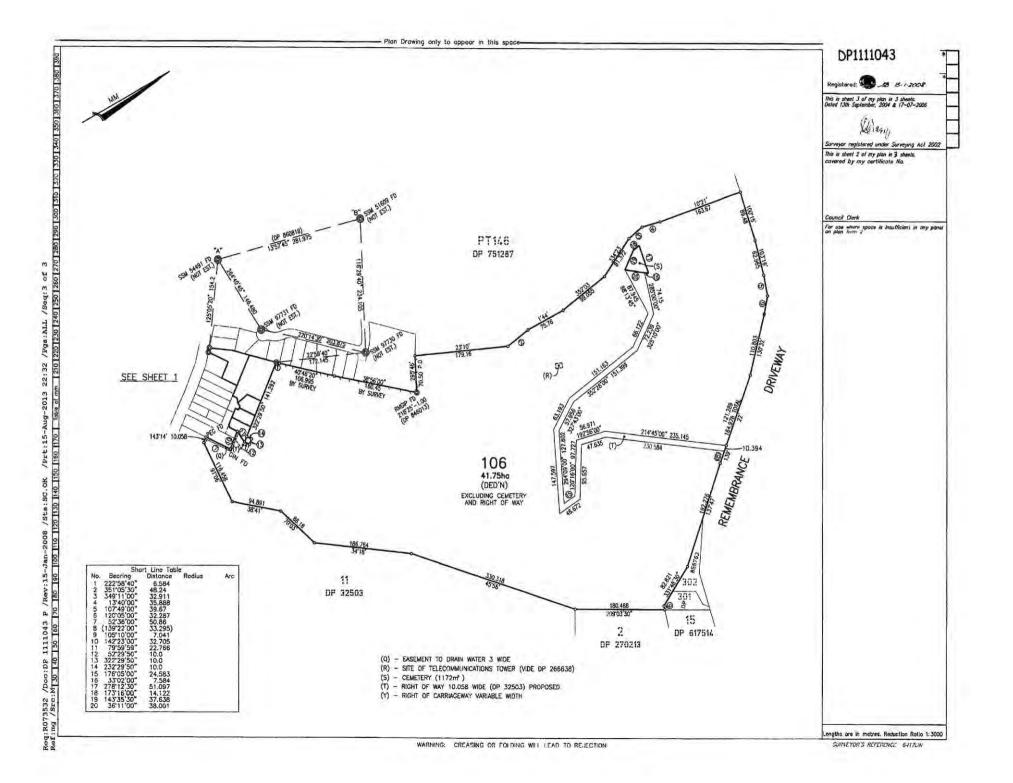


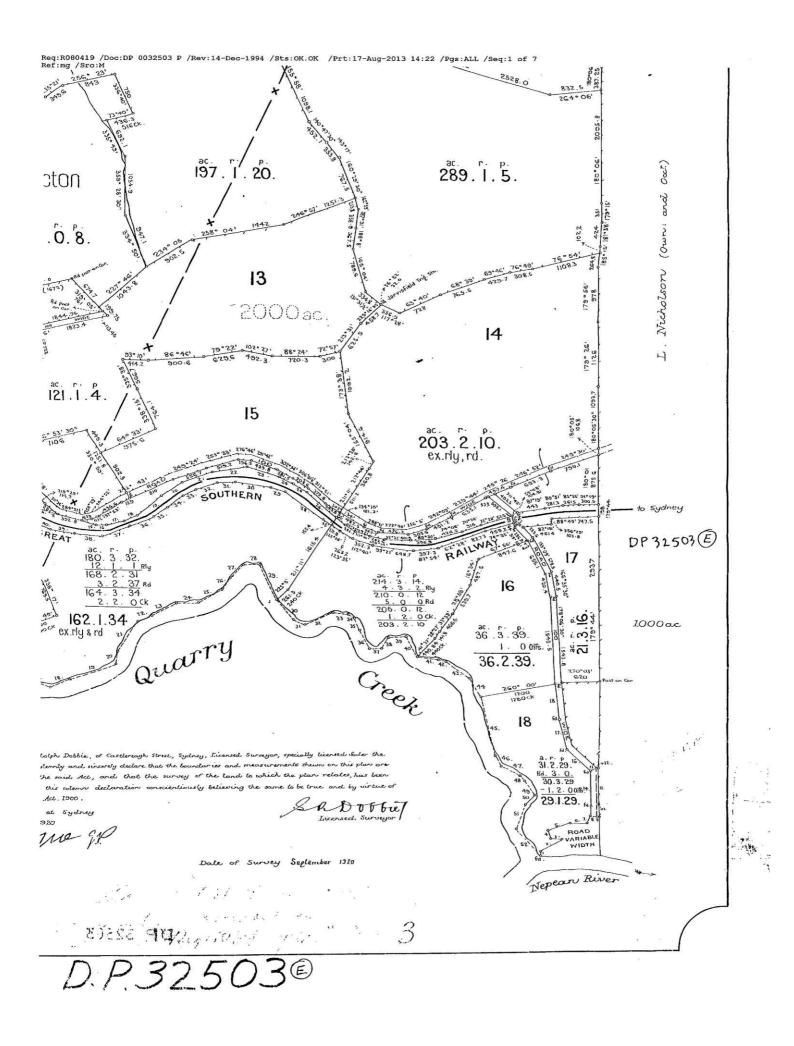


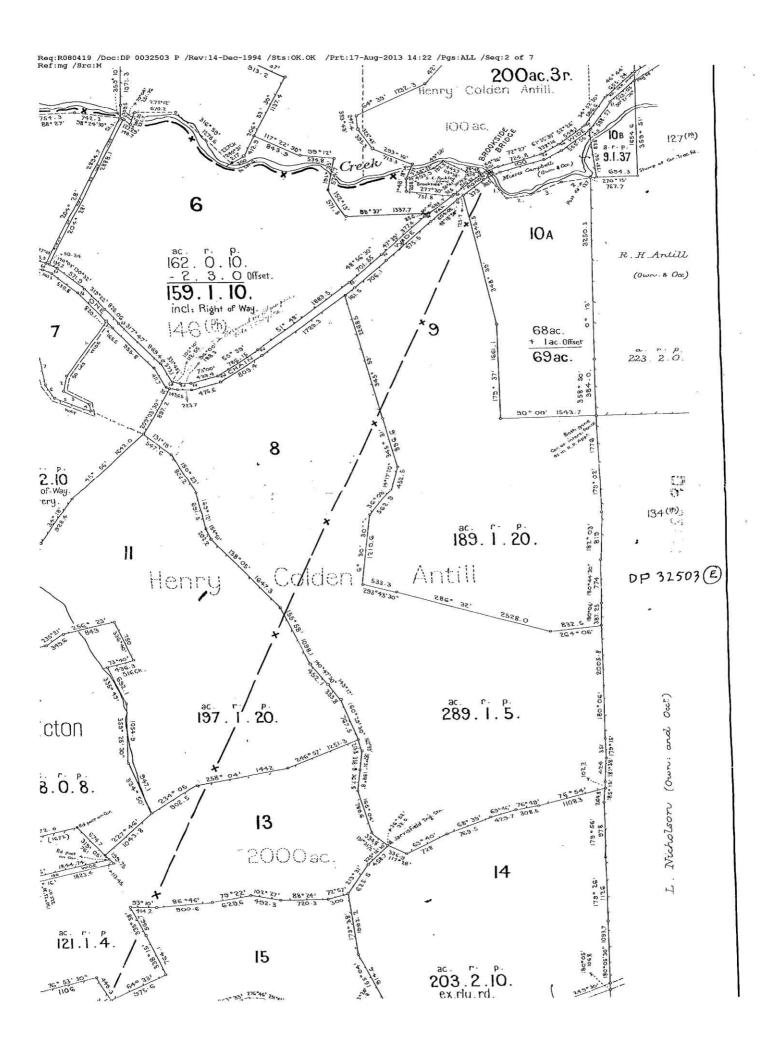
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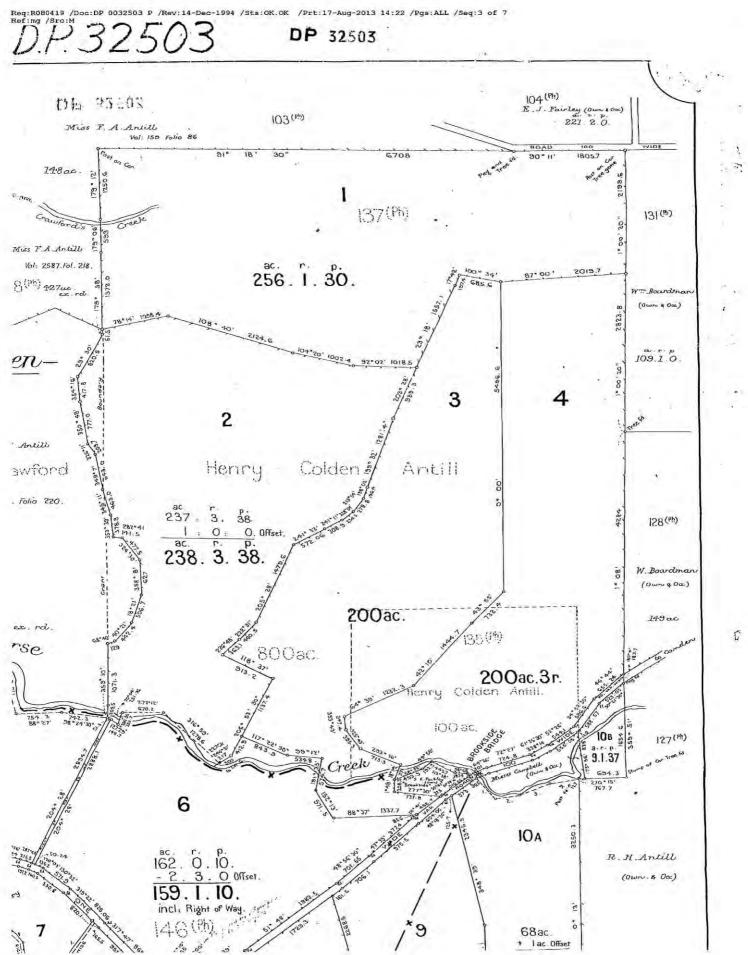
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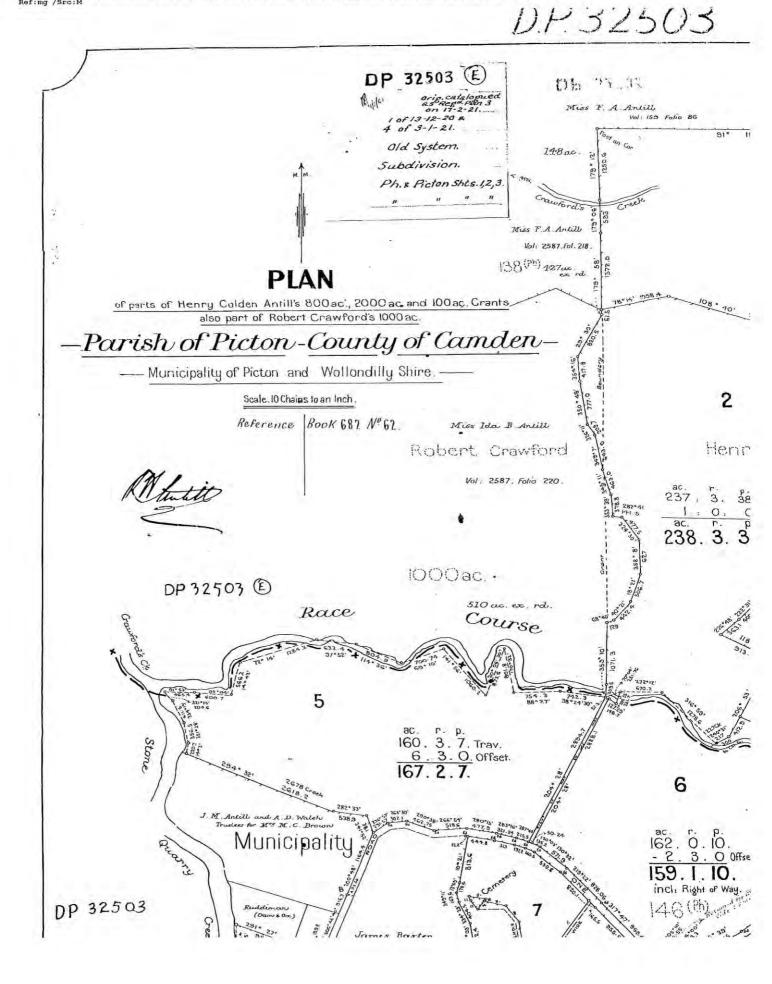




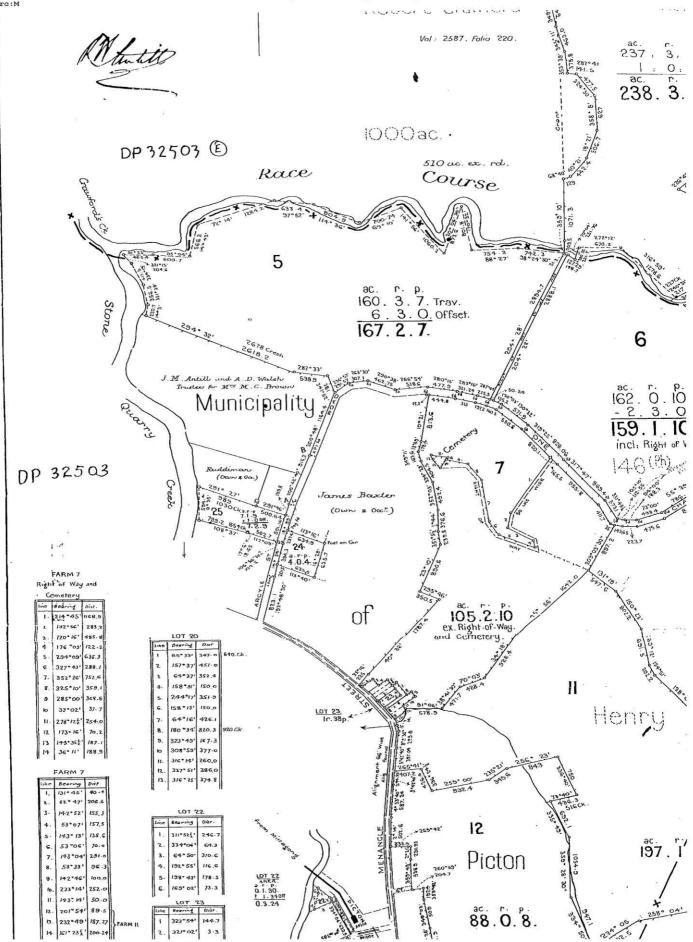




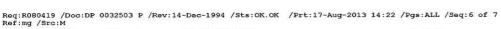
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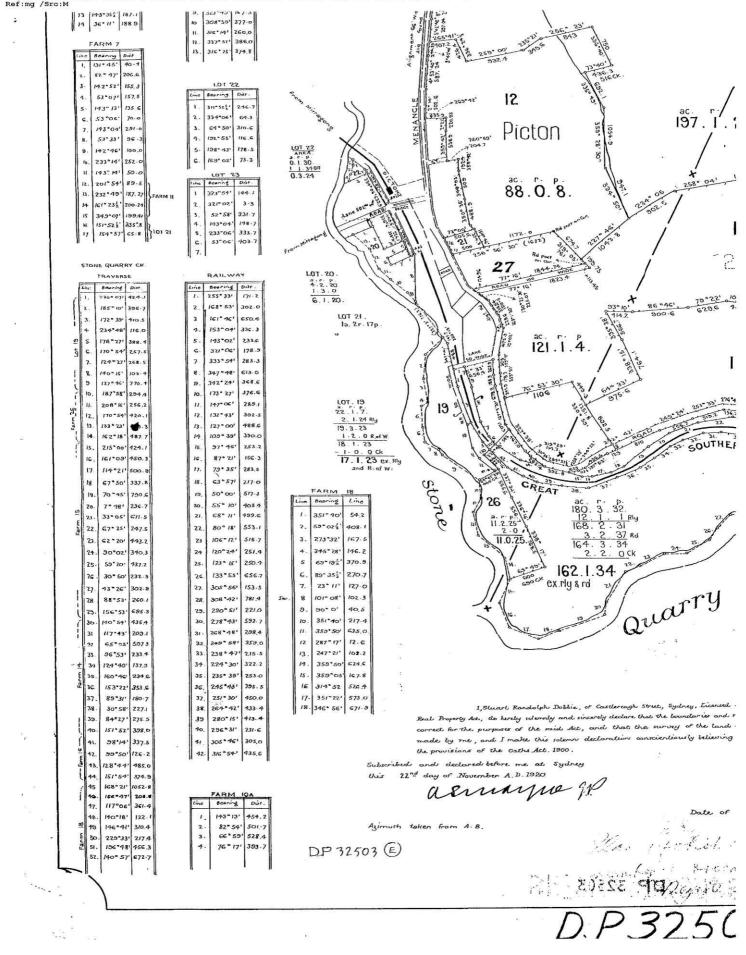


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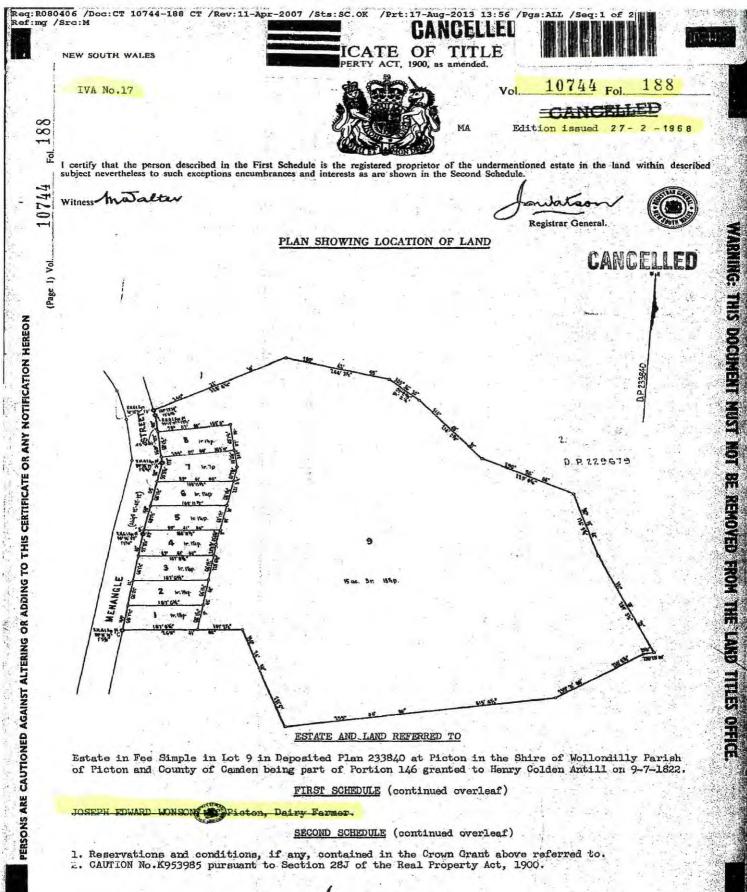
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53	10-662		231.6	46.591	395.5	79.562	547.6	110,160	1018.5	204.890		68	27.5
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70	14.082		236.7	47.616	406.4	81.755	566.2	113,901	1092.2	219.716 220.017		160 3 7	65.0
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27	25.548		275.5	55.422	439.8	88.474	650,4	130.840	1550 1557.1	311.810 313.239			
29	25.951		281.3	56.589	440	88.514	655.1	131.785	1642	330.318			
35.6	27.278		283.3	56.991	440.5	88.615	655.24 656.7	131.813	1647.3	331,384			
40	28.164		283.5	57.031	442.4	88.997	670.2	134.823	1650.4	332,008			
41.5	28.465		289.1	58.158	443.2	89.158	670.8	134,943	1661.1	334,160 347,880			
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156.3	31.443		302.9	60.934	463	93.141	713.3	143.493	2019.7	406.299			
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60.5	32.287		308.6	62.080	475.6	95.676	742.3	149.327	2209.3	444.440			
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70	34.199		310.6	62.483	485	97.566	767.7	154.437	2345.5	471.840			
71.2	34.440		319	64.173	487.5	98.069	770.4	154,980	2528	508.553 526.698		t	
77.6	35.727		322	64.776 64.816	487.7	98.110	774	155.704	2678	538.728			
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197.4	39.711		337.8	67.955	502.6	101.107	809.4	162,825	20000.01	4023.362	8		
199.41	40,115		340.3	68.457	502.7	101,127	819	164.757	20012	4025.774			
199.8	40.193		349.6	70,328	505.1	101.610	820.1	164,978	21100	4244.645			
200.24	40.234		350.5	70.409	505.6	101.711	820.5	165.058	55400	0/14-011			
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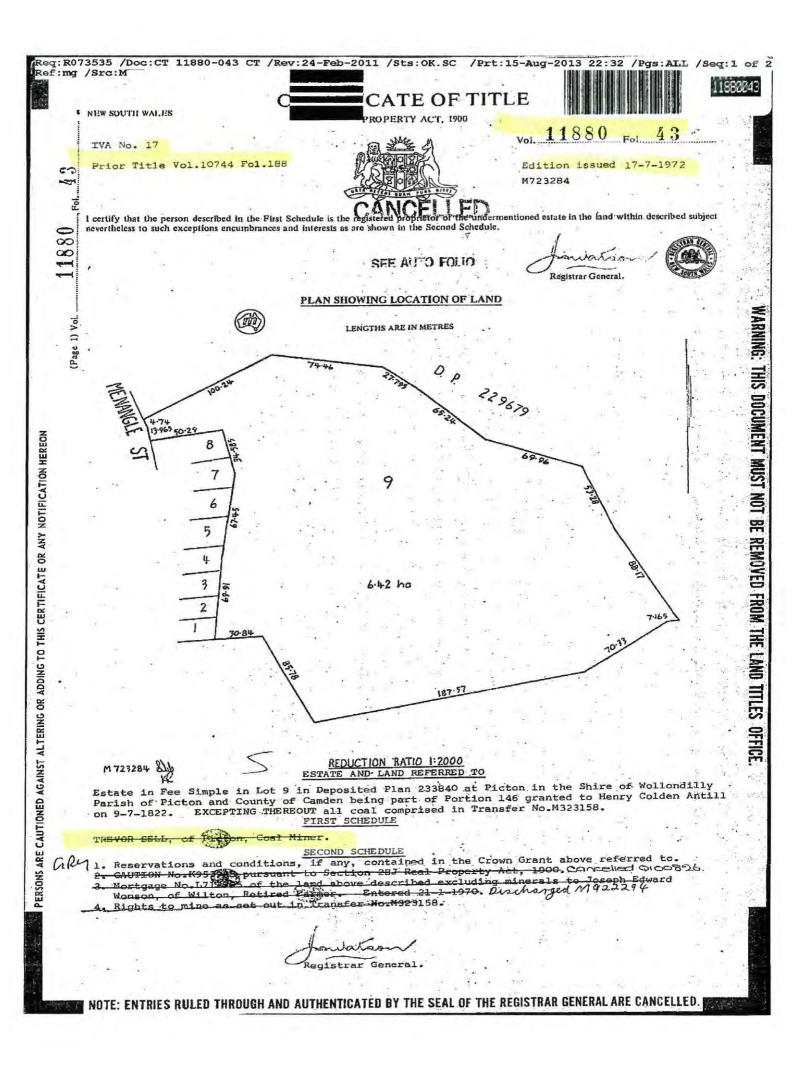
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Registrar General.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

	1.		FIRST SCHEDULE (continued)					IT, DOVENNIENT PRINTER	f 91
REGISTERED PROPRIETOR						DATE	ENTERED	Signature of Begistrar-General	
Trees	11102	·+ 1	- e ( )	Trang	NUMBER			forwater	255-71
		con the la				4-23-12-194	27-1-1970	0-	M323157D
To Teac Mines N.L. as acgords the Coal lying in and under the land within described and Theory Sell of Picton, Coal Miner as regards the residue				Transfer	m323/58	25-11-1970	29-5-1972	faulation	no regards,
		- 1			Contract and			0	minunds
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		14	in and under the land within described	29-5-1972	faniations				1.1
Jaansfer	m 323158	25-11-1970	Rights to mine all coal affecting the taked within described		1			a strange	
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			As to Part being coal this Deed is cancelled and New Certificate of Title issued.		<u> </u>				1990 - S.
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nonlange	Q100827	- <u>-</u>	to C.B.C. Sourings Bank Limited	11.3.AD		J		
Mortgage	B29275	<u></u>	to The Commercial Banking Company of Sydney Limited	17-1-1979	kenning			Page 1
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# **Historical Title**

InfoTrack An Approved LPI N: Information Broke

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

15/8/2013 10:33PM

FOLIO: 9/233840

First Title(s): SEE PRIOR TITLE(S) Prior Title(s): VOL 11880 FOL 43

Recorded	Number	Type of Instrument	C.T. Issue		
5/6/1987		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED		
13/1/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED		
19/11/1998	5406127	DISCHARGE OF MORTGAGE	EDITION 1		
25/7/2001	7801699	MORTGAGE	EDITION 2		
20/3/2013	AH618987	DISCHARGE OF MORTGAGE	EDITION 3		

\*\*\* END OF SEARCH \*\*\*

mg

PRINTED ON 15/8/2013

InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registri in accordance with Section 96B(2) of the Real Property Act 1900.

15/08/13 10:35 PM



## **Title Search**

InfoTrack An Approved LPI NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

#### FOLIO: 9/233840

#### -----

SEARCH DATE	TIME	EDITION NO	DATE
15/8/2013	10:31 PM	3	20/3/2013

LAND

LOT 9 IN DEPOSITED PLAN 233840 AT PICTON LOCAL GOVERNMENT AREA WOLLONDILLY PARISH OF PICTON COUNTY OF CAMDEN TITLE DIAGRAM DP233840

FIRST SCHEDULE

ALAN STEWART WILTON CAROL LESLEY WILTON AS JOINT TENANTS

(T M922295)

SECOND SCHEDULE (1 NOTIFICATION)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

#### NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

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# **Historical Title**

InfoTrack An Approved LPI N. Information Broke

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

### SEARCH DATE

15/8/2013 10:33PM

FOLIO: 2/229679

## First Title(s): OLD SYSTEM Prior Title(s): BK 2836 NO 105

BK 3165 NO 794

Recorded  10/1/2007	Number  CA103422	Type of Instrument CONVERSION ACTION	C.T. Issue FOLIO CREATED	
24/4/2012	AG944801	DEPARTMENTAL DEALING	CT NOT ISSUED EDITION 1	

\*\*\* END OF SEARCH \*\*\*

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15/08/13 10:35 PM

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## **Title Search**

InfoTrack An Approved LPI NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

#### FOLIO: 2/229679

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TIME	EDITION NO	DATE
10:31 PM	1	24/4/2012

LAND

LOT 2 IN DEPOSITED PLAN 229679 AT PICTON LOCAL GOVERNMENT AREA WOLLONDILLY PARISH OF PICTON COUNTY OF CAMDEN TITLE DIAGRAM DP229679

FIRST SCHEDULE

LESLIE ROBERT BAXTER

(CA103422)

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- 2 QUALIFIED TITLE. CAUTION PURSUANT TO SECTION 28J OF THE REAL
- PROPERTY ACT, 1900. ENTERED 10-01-2007 BK 2836 NO 105 AND BK 3165 NO 794
- 3 LIMITED TITLE, LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
- 4 BK 3011 NO 585 LAND EXCLUDES MINERALS AND IS SUBJECT TO RIGHTS TO MINE

#### NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

mg

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Reg:R073539 /Doc:PA 082314 PA /Rev:16-Jan-2008 /Sts:SC.OK /Prt:15-Aug-2013 23:01 /Pgs:ALL /Seg:1 of 5 Ref:mg /Src:M

	PRIMARY APPLICATION	Form: 00PA	Leave t				
	New South Wales	Release: 2.0		00444			
	Section 14 Real Property Act 1900	www.lands.nsw.gov.au	This for, PA8	2314L			
	PRIVACY NOTE: Section 31B of the nformation required by this form for Act requires that the Register is made	he Real Property Act 1900 r the establishment and mair	(RP Act) authorises the Reg Intenance of the Real Property	Act Register. Section 96B RF			
	STAMP DUTY			ITH WALES DUTY			
	Office of State Revenue use only		02-04-2 Section Duty	007 0004162591-001 0 53(1)(C) \$ ******************0.0			
(A)	LODGED BY						
	Document Name, Address or DX a	Nd Telephone JOHN	McLAREN & CO.	CMC(P). BAXTER			
(B)	APPLICANT						
	Leslie Robert Baxter applies to have the land described be	ow brought under the provision	ons of the Real Property Act 1	900:			
(C)	LAND						
		cton	in the County of Cam	den			
	Parish of Picton	being Lot 7 D	1202.12	· ' · ' ("The land")			
(D)	REGISTERED PROPRIETOR			······································			
	and requests that the folio of the Reg Leslie Robert Baxter	ister issue in the name of		2			
(E)	TENANCY						
	1						
(F)	STATUTORY DECLARATION *						
	CAUTION: SEVERE PENALTIES ARE	PROVIDED FOR PROCURING	CERTIFICATE OF TITLE THRO	DUGH FRAUD			
	I/we, Leslie Robert Baxter in support of this application and sinc	erely declare(s) that—		<u>.</u>			
	1. The applicant is seized of possession of the land.						
	<ol> <li>There is no person in possession or occupation of the land or any part of it adversely to the estate or interest of the applicant.</li> <li>The land is now unoccupied.</li> </ol>						
	<ol> <li>There is no lease or agreement for lease of the land for any term exceeding 1 year, or from year to year, except as set out in Schedule 1.</li> <li>There is no right of way, right of drainage or other easement or any restrictive covenant affecting the land except as set out in</li> </ol>						
	<ol> <li>Schedule 1.</li> <li>There is no mortgage, lien, writ of execution, order, charge, encumbrance, will, settlement, deed, writing, contract or dealing</li> </ol>						
	giving any right, claim or interest : 1; nor to the best of my knowledge	in the land or any part of it to a and belief is there any action.	ny person other than the applic proceeding or suit pending whi	ant except as set out in Schedule ch affects or could affect the land			
	or any person other than the applic. 7. There is no resumption or instrum out in Schedule 1.	ant who has or claims any estat ent whereby minerals or subst	e, right title or interest in the lan rata have been excepted or rese	id except as set out in Schedule 1. erved to any person except as set			
	<ol> <li>Schedule 2 contains a full and cor the land so far as I have any mean lodged herewith: the whereabouts</li> </ol>	ns of ascertaining them; all su	ch documents as are in my pos	ssession or under my control are			

9. The applicant is not hankrupt nor has the applicant assigned his estate for the benefit of creditors; if the applicant is a corporation, the corporation has not appointed a liquidator.

10. The information set out in Schedules 1 and 2 is to be taken as part of this declaration.

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			continued on page 2
ALL HANDWRITING MUST BE 0507	IN BLOU'S CAPITALS.	Page 1 of 5	DEPARTMENT OF LANDS LAND AND PROPERTY INFORMATION DIVISION

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Req:R073539 /Doc:PA 082314 PA /Rev:16-Jan-2008 /Sts:SC.OK /Prt:15-Aug-2013 23:01 /Pgs:ALL /Seq:2 of 5 Ref:mg /Src:M .

11. Searches and enquiries for those documents shown as "whereabouts unknown" and numbered

in the List of Documents in Schedule 2 have been made at the premises of the applicant, previous and present lending institutions, solicitors and agents, and have not been lodged with any person as security for a loan or for any purpose whatsoever. I make this solemn declaration conscientiously believing the same to be true and by virtue of the provisions of the Oaths Act 1900.

I certify this application correct for the purposes of the Real Property Act 1900; and I undertake to notify the Registrar General promptly of any further interest in the land created after the making of this declaration and before issue of the certificate of title. Mada and subscribed at Picka And Anna - ---

on 30.3.07	in the presence of *
Signature of witness: Carler Ser	Signature of declarant:
Signature of witness: Carlerse Name of witness: Leanne Anderso Address of witness: 20 Menangle S	twest L.A. Basiter.
Picton, 25TI	

Qualification of witness [tick one]: Justice of the Peace Practising Solicitor Other [specify] \* As the Department of Lands may not be able to provide the services of a justice of the peace or other qualified witness, the statutory declaration should be signed and witnessed prior to lodgment of the form at Land and Property Information Division.

## (G) CONSENT OF MORTGAGEE:

N.A.

being the mortgagee

0507

a second second second and second second

Number N.A. under mortgage Book N.A. joins in and consents to this application subject toi. the entry on the folio of the Register to be created and on the certificate of title to issue of a notification relating to the above mortgage: and

A A A A A MARKE

ii. delivery of the certificate of title to me.

Signature of witness: . Signature of declarant: Name of witness:

...

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Address of witness:

#### SCHEDULE 1 particulars of subsisting interests (H)

Full name and address of the occupier, lessee, mortgagee, etc	Nature of the entitlement e.g. occupier, lessee	Particulars of the instrument, if any by which the entitlement was created
-NIL-		
	L	

Req:R073539 /Doc:PA 082314 PA /Rev:16-Jan-2008 /Sts:SC.OK /Prt:15-Aug-2013 23:01 /Pgs:ALL /Seq:3 of 5 Ref:mg /Src:M

### (I) SCHEDULE 2

.

(a) Location of documents referred to in List of Documents

Lodged herewith:	Document numbers	
Whereabouts unknown: (see clause 11 on page 2)	1	5 held with Commissioner for Main Roads
Permanently lodged:	Document numbers	Receipt numbers
To be lodged:	Document numbers	To be lodged by Caldwell Martin Cox

(b) List of Documents list each chain of title separately: the schedule should commence from a good root of title

No.	Date Nature of Document	Parties	General F	General Register	
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Req:R073539 /Doc:PA 082314 PA /Rev:16-Jan-2008 /Sts:SC.OK /Prt:15-Aug-2013 23:01 /Pgs:ALL /Seq:4 of 5 Ref:mg /Src:M

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## List of Documents (continued) list each chain of title separately

Req:R073539 /Doc:PA 082314 PA /Rev:16-Jan-2008 /Sts:SC.0K /Prt:15-Aug-2013 23:01 /Pgs:ALL /Seq:5 of 5 Ref:mg /Src:M

No	Date /	Document	Parties	Book	No
U	2.9.1921	Conveyance	Robert Henry Antill to Edward Baxter	1234	265
2	2.9.1921	Mortgage	Edward Baxter to Robert Henry Antill	1234	266
	8.12.1921	Assignment of Mortgage endorsed	Perpetual Trustee Company Limited to Robert Henry Antill	1246	179
	20.7.1928	Discharge endorsed	Perpetual Trustee Company Limited to Edward Baxter	1522	529
3)	31.7.1961	Acknowledgement	AE Baxter & EB Chalmers (Executors Estate late Edward Baxter) to Albert Edward Baxter	2581	270
4	23.11.1970	Sale of Coal Rights	Albert Edward Baxter to Teos Mines NL	3011	586
5	16.4.1973	Conveyance	Albert Edward Baxter to Commissioner for Main Roads	3095	66
6)	21.10.1980	Conveyance	Albert Edward Baxter to Leslie Robert Baxter	3439	573

## SCHEDULE

g:\data\work\convey\2060877\schedule.doc

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Page 5 of 5 L. R. Baster. Calorso

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# **Historical Title**

C.T. Issue

FOLIO CREATED EDITION 1

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - HISTORICAL SEARCH

SEARCH DATE

15/8/2013 10:33PM

FOLIO: 106/1111043

 First Title(s): OLD SYSTEM

 Prior Title(s): 8/6/192895
 BK 3439 NO 573

Recorded	Number	Type of Instrument	
15/1/2008	DP1111043	DEPOSITED PLAN	
15/1/2008	PA82314	PRIMARY APPLICATION	

\*\*\* END OF SEARCH \*\*\*

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SFR Service First Registration

## **Title Search**

InfoTrack An Approved LPI NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH

### FOLIO: 106/1111043

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SEARCH DATE	TIME	EDITION NO	DATE
15/8/2013	10:31 PM	1	15/1/2008

LAND

LOT 106 IN DEPOSITED PLAN 1111043 AT PICTON LOCAL GOVERNMENT AREA WOILONDILLY PARISH OF PICTON COUNTY OF CAMDEN TITLE DIAGRAM DP1111043

FIRST SCHEDULE

LESLIE ROBERT BAXTER

(PA82314)

SECOND SCHEDULE (6 NOTIFICATIONS)

	CDANT/C)
	GIGHAT (D)
BK 1234 NO 265 COVENANT	
DP1111043 RIGHT OF CARRIAGEWAY VARIABLE W	
PART(S) SHOWN SO BURDENED IN TH	HE TITLE DIAGRAM
DP1111043 EASEMENT TO DRAIN WATER 2.5 MET TO THE LAND ABOVE DESCRIBED	TRE(S) WIDE APPURTENANT
DPIIII043 EASEMENT TO DRAIN WATER 3 METRE	(S) WIDE AFFECTING THE
PART(S) SHOWN SO BURDENED IN TH	E TITLE DIAGRAM
DP1111043 RESTRICTION(S) ON THE USE OF LA	AND REFERRED TO AND
NUMBERED (6) IN THE S.88B INSTR	UMENT
	PART(S) SHOWN SO BURDENED IN TH DP1111043 EASEMENT TO DRAIN WATER 2.5 MET TO THE LAND ABOVE DESCRIBED DP1111043 EASEMENT TO DRAIN WATER 3 METRH PART(S) SHOWN SO BURDENED IN TH DP1111043 RESTRICTION(S) ON THE USE OF LA

NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

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