



Appendix J

Preliminary Contaminated Land Assessment

Preliminary Site Investigation

Planning Proposal Industrial Rezoning for land
located at Lot 1 DP 783330, Lots 1 to 12 DP
976660 &
Lots 14 to 20 DP 97660
Bruxner Highway Casino



**HEALTH SCIENCE ENVIRONMENTAL EDUCATION
ENVIRONMENTAL AUDITOR**

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Bruxner Highway Casino

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Executive Summary

Tim Fitzroy & Associates (TFA) has been engaged by JM and GA Imeson to undertake a Preliminary Site Investigation under State Environmental Planning Policy (SEPP) 55 – Remediation of Land to accompany a *Planning Proposal* to Richmond Valley Council for land located at Lot 1 DP 783330; Lots 1 to 12 DP 976660; Lot 14 section 6 DP 97660, Lot 15 section 6 DP 97660, Lot 16 section 6 DP 97660, Lot 17 section 6 DP 97660, Lot 18 section 3 DP 97660, Lot 19 section 6 DP 97660 and Lot 20 section 6 DP 97660 Bruxner Highway, Casino to permit industrial rezoning.

The subject site covers an area of approximately 16.20ha. A site inspection was conducted with the owner Mr Jeff Imeson. The site is reasonably level and used for cattle grazing. The site adjoins the Casino Industrial Estate to the west and Bruxner Highway to the south. The remainder of the surrounding land uses are beef cattle grazing. The businesses adjoining the subject site could be described as light industrial serviced based industry.

The subject site is currently zoned as follows under the Richmond Valley LEP 2012:

- RU1 Primary Production.

Grazing of dairy cattle occurred on the subject site from the 1920's to the 1950's. Beef cattle grazing has been the dominate use of the property since the 1950's to the present. According to Jeff Imeson (pers.com 2018) the subject site has never been cultivated while the previous dairy was located in the southern side of the adjacent property to the west (within the existing Industrial Estate).

There is no dwelling onsite. Site improvements include: fencing, accessway, cattle yards, pasture, shade trees and drainage channels.

The preliminary contamination assessment includes a comprehensive review of the site history, aerial photographs, permits, licences etc relating to the site and state government reports, historical site photographs; and parish map extracts.

Based on our Preliminary Contamination Assessment of Lot 1 DP 783330; Lots 1 to 12 DP 976660; Lot 14 section 6 DP 97660, Lot 15 section 6 DP 97660, Lot 16 section 6 DP 97660, Lot 17 section 6 DP 97660, Lot 18 section 3 DP 97660, Lot 19 section 6 DP 97660 and Lot 20 section 6 DP 97660 Bruxner Highway, there does not appear to be any impediment to the rezoning of the subject land to industrial use.

1. Introduction

Tim Fitzroy & Associates has been engaged by JM and GA Imeson to undertake a Preliminary Site Investigation under State Environmental Planning Policy (SEPP) 55 – Remediation of Land to accompany a Planning Proposal to Richmond Valley Council for land located at Lot 1 DP 783330; Lots 1 to 12 DP 976660; Lot 14 section 6 DP 97660, Lot 15 section 6 DP 97660, Lot 16 section 6 DP 97660, Lot 17 section 6 DP 97660, Lot 18 section 3 DP 97660, Lot 19 section 6 DP 97660 and Lot 20 section 6 DP 97660 Bruxner Highway, Casino to permit industrial rezoning (see Site Locality Plan **Illustration 1.1**).

1.1 Objectives

The objective of the Phase 1 CSA is to identify potential contamination issues within the proposal area and provide recommendations for further investigations or management of any contamination issues identified.

1.2 Scope of Works

This investigation is a broad scale preliminary site contamination investigation in accordance with the State Environmental Planning Policy No. 55 (SEPP55).

This investigation will be used in the planning process to identify if soil contamination is likely to be an issue when considering the Planning Proposal.

The scope of work for the Phase 1 CSA included the following:

- A review of historical aerial photographs from 1958, 1967, 1979, 1987, 1997, 2005, 2009, 2015 and 2018;
- Review of geology, hydrology and topography information for the proposal;
- Discuss the current site condition;
- Identify past and present potentially contaminating activities;
- Provide an assessment of site contaminants;
- Provide recommendations for consideration at the Planning Proposal;
- A review of NSW Environment Protection Authority (EPA) notices under the Contaminated Land Management Act 1997 (CLM Act), the Protection of the Environment Operations Act 1999 (POEO Act) environment protection licence (EPL) register and any incidents reported to the EPA; and
- Preparation of this CSA report with reference to the *Guidelines for Consultants Reporting on Contaminated Sites* (OEH, 2011) outlining the results of the desktop review including identification of key areas where insufficient information is available to adequately plan the works, and an outline of what further investigations are required to address these data gaps.

The methodology used for this assessment was to:

- undertake a desktop assessment of the site to identify past contaminating activities;
- undertake a historical review of the site;
- undertake site inspection;
- liaise with the property owner; and
- report on the findings.

2. Site Description and History

2.1 Site Location

The area the subject of the Planning Proposal is shown in **Illustration 2.1**. The study area has an area of approximately 16.20 hectares of essentially flat cattle grazing land and is located about 3.0km east of the Casino Central Business District. The subject site is bounded by the Bruxner Highway to the south, the Casino Industrial Estate to the west, and cattle grazing land to the north, east and south. The proposed Hemp Plantation and Processing Facility is to be located to the north. The site is accessed off the Bruxner Highway.

2.2 Topography, Soils, Geology and Hydrogeology

The relief of the subject site is essentially flat at approximately 20m AHD (see **Appendix A**).

The geology of the soil is described as *undifferentiated alluvial deposits; sand, silt, clay and gravel; some residual and colluvial deposits. Includes some channel, levee, lacustrine, floodplain and swamp deposits. May include some higher level Tertiary terraces.*

The soils within the subject site are described as Soil Order: Vertosol: River flood-plains: relatively large and poorly drained, flat areas of deep dark cracking clays (Ug5.4) and (Ug5.16) with some melon-hole microrelief. Associated are friable yellow mottled soils (Dy5.1), and well drained sandy levee soils (not described) (Atlas of Australian Soils CSIRO see **Appendix A**).

The hydrogeology in the area comprises porous, extensive highly productive aquifers. A review of groundwater bore logs in the locality records 4 licensed ground water bores (GW306508, GW306507, GW306506 and GW305852) within 300m of the subject site. Three (3) of the groundwater bores were registered for groundwater monitoring whilst one was registered as a groundwater test bore. The final bore depth was 6.0m for the three closest bores GW306508, GW306507, GW306506 all within 65m of the subject site and 42.0m for GW305852 with no standing water level recorded.

Drill Log details for GW306508, GW306507, GW306506 and GW305852 are provided in **Table 2.1**.

Table 2.1 Groundwater Log Details for Wells within 300m of the subject site

Groundwater No	Drillers Log	Distance	Direction
GW306508	0.00m-6.00m Clay, dark brown, high plasticity	12m	South West
GW306507	0.00m-3.00m Clay, brown to dark brown, high plasticity, minor organic inclusions 3.00m-4.80m Clay, as above, but orange-brown mottling 4.80m-5.20m Sandy Clay, dark brown, high plasticity, fine grained sand 5.20m-6.00m Sand, Clay, as above, but minor fine gravels	40m	South West
GW306506	0.00m-4.80m Clay, dark brown, medium to high plasticity 4.80m-6.00m Sandy Clay, dark brown to grey, high plasticity, fine to medium grained sand	65m	South West
GW305852	0.00m-2.40m soil 2.40m-26.00m clay 26.00m-27.00m sand 27.00m-32.00m sandstone, dec 32.00m-42.00m sandstone & shale	143m	South West

The remainder of the registered groundwater bores in the locality are located in excess of 310m from the subject site. A groundwater data set for all groundwater wells located within 2,000m of the subject site is provided in **Appendix A**.

Aerial Imagery 2018

Johnston Street, Casino, NSW 2470

Illustration 2.1
Site Locality and Site Boundary



2.3 Site History

A summary of the sites history is provided below.

2.3.1.1 Historical Aerial Photography

A series of aerial photographs have been sourced from Lotsearch (see **Appendix A**). Information garnered from the historical photographs is summarised below:

Table 2.2 Review of Historical Aerial Photographs

Photograph	Site Observations
1958	<p>A review of historical aerial photography in 1958 indicates grazing land on the subject site and scattered trees mainly in the northern portion. There is no development (building structures) on the site.</p> <p>The southern portion of the site has been sown with setaria grass to improve pasture for grazing cattle (pers.com Jeff Imeson, 17 July 2019).</p> <p>A farmhouse is located on the adjacent property (Lot 20 DP976660) to the east and on the property to the west (currently Casino Industrial Estate). With the exception of the two farmhouses no dwellings or structures are present in the aerial photograph.</p>
1967	<p>By 1967 there are no changes to the subject site as it continues to be used for cattle grazing. Earthworks have commenced for the Casino Sewerage Treatment Plant (STP) in the north western edge of the photograph.</p>
1979	<p>By 1979 there are no changes to the subject site as it continues to be used for cattle grazing.</p> <p>The Casino Industrial Estate has commenced development.</p>
1987	<p>By 1987 there was a significant expansion in the Casino Industrial Estate however there are no changes to the subject site as it continues to be used for cattle grazing</p>
1997	<p>By 1997 there was further significant expansion in the Casino Industrial Estate and development of the Casino STP however there are no changes to the subject site as it continues to be used for</p>

	cattle grazing.
2005	By 2005 there was further significant expansion in the Casino Industrial Estate however there are no changes to the subject site as it continues to be used for cattle grazing.
2009	By 2009 there was further significant expansion in the Casino Industrial Estate and an additional lagoon to the STP however there are no changes to the subject site as it continues to be used for cattle grazing
2015	By 2015 there was further significant expansion in the Casino Industrial Estate and an additional lagoon to the STP however there are no changes to the subject site as it continues to be used for cattle grazing
2018	By 2015 there was further significant expansion in the Casino Industrial Estate and additional lagoons to the STP however there are no changes to the subject site as it continues to be used for cattle grazing

2.3.1.2 Discussion with Land Owner

Discussions were held with the property owner, Jeff Imeson, on 15 January 2018 and 17 July 2019. The subject site is under beef cattle grazing. Mr Imeson's family has owned the property for over 100 years. Mr Imeson's Grandfather Edga Charles and Great Uncle, Harold commenced dairy grazing at the subject site in the 1920's prior to the commencement of beef cattle grazing in the 1930s.

Grazing of dairy cattle occurred from the 1920's to the 1950's. Beef cattle grazing has been the dominate use of the property since the 1950's to the present. According to Jeff Imeson (pers.com) the subject site has never been cultivated while the previous dairy was located in the southern side of the adjacent property to the west (within the existing Industrial Estate). From time to time parts of the property has been sown with Setaria grass as fodder for cattle as evidenced in the 1958 aerial photograph.

There is no dwelling onsite. Site improvements include: fencing, accessway, cattle yards, pasture, shade trees and drainage channels.

Mr Imeson has provided a Statutory Declaration (see **Appendix B**) affirming that the site has been used by his family for cattle grazing for over 100 years and the site has not been used for cropping. This view is supported by aerial photography as far back as 1958. Furthermore, Mr Imeson states that no herbicides have been used on the property. Cattle have been treated topically via pour on drench and injection where necessary. According to Mr Imeson there have not been any structures, nor effluent tanks erected or installed on the subject site.

2.4 Contaminated Land Record Search

2.5.1 Contaminated Land Record

A search of the Contaminated Land Record (EPA 2010b) for the Richmond Valley Council Local Government Area (LGA) did not identify any notices on the subject site. There are however a list of contaminated sites notified to the NSW EPA within 1,000m of the subject site including the adjoining Casino Sewerage Treatment Plant (ID 585) and State Rail (SRA) ID 13421 in **Illustration 2.3**.

2.5.2 Protection of the Environmental Operations Act Licenses

A search of the current list (EPA 2010c) of licensed activities as per Schedule 1 of the Protection of the Environment Operations Act 1997 did not apply at the subject site.

2.5.3 Cattle Tick Dip Sites

A search of the Department of Primary Resources dip site register was undertaken to determine if any dip sites had been located on or near the property. The search indicated that there are no dipsites within the NSW EPA Buffer. The closet cattle dipsite *Casino Common* is located on Springrove Road, 869m west of the subject site (see **Appendix A**).



3. Site Investigation

3.1 Site Inspection

3.1.1 General

A joint site inspection was undertaken by Tim Fitzroy with the property owner, Jeff Imeson on 15 January 2018. On the day of the site assessment the weather was clear.

The site is reasonably level and used for cattle grazing. The site adjoins the Casino Industrial Estate to the west and Bruxner Highway to the south. The remainder of the surrounding land uses are beef cattle grazing.

The business adjoining the subject site could be described as light industrial serviced based industry. Photographs of the site subject and surrounds were taken (see **Appendix C**).

A variety of industrial land uses are located within the Industrial Precinct to the west from the subject site. Existing businesses within the closest proximity to the subject site (see **Illustration 3.1**) include:

- ❖ Smiths Joinery,
- ❖ Casino Car Wash,
- ❖ The Bolt Barn,
- ❖ Casino Auto Electrical;
- ❖ Richmond Valley Auto Dismantlers and Mechanical Repairs; and
- ❖ Casino Smash Repairs.

A list of existing business in the locale is provided in **Appendix A**.

3.1.2 Visible Signs of Contamination/Plant Stress

There was no evidence of waste disposal and contamination on the subject site.

3.1.3 Odours

There were no obvious odours akin to contamination observed during site inspection.

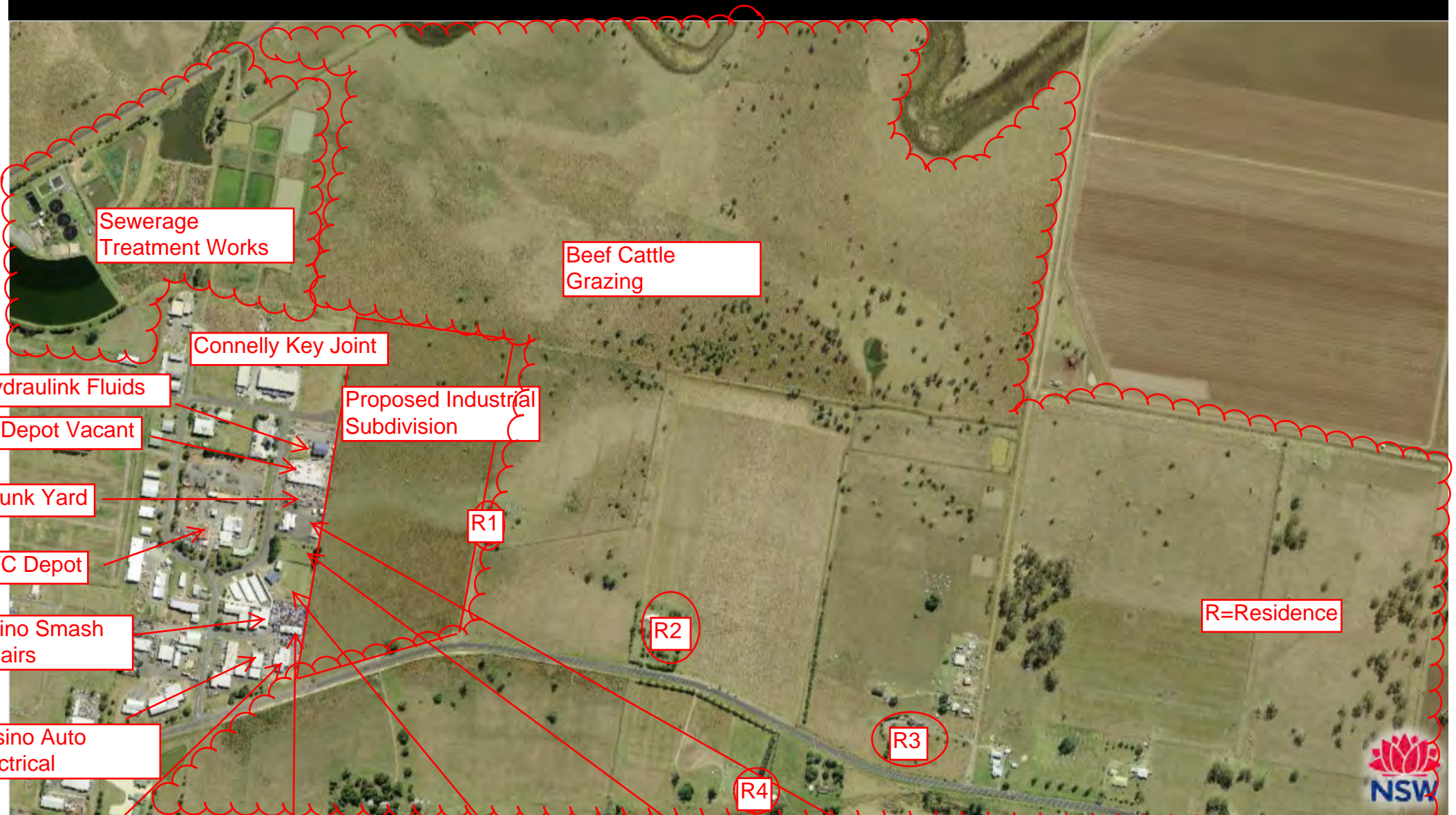
3.1.4 Flood Potential

There is risk of flooding to the site

3.1.5 Presence of Drums, Wastes and Fill Material

There was no evidence of fill material across the site.

Surrounding Land Uses



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4. Conclusions

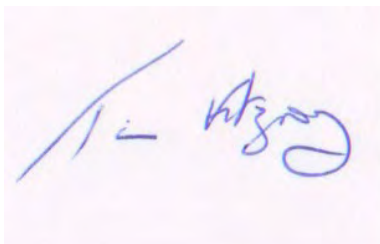
This investigation is a broad scale preliminary site contamination investigation in accordance with the State Environmental Planning Policy No. 55 (SEPP55) to support a Planning Proposal for the future use rezoning to industrial use.

The scope of work for the Phase 1 CSA included the following:

- A review of historical aerial photographs from 1958, 1967, 1979, 1987, 1997, 2005, 2009, 2015 and 2018;
- Review of geology, hydrology and topography information for the proposal;
- Discuss the current site condition;
- A site inspection;
- A statutory Declaration from the current owner
- Identify past and present potentially contaminating activities;
- Provide an assessment of site contaminants;
- Provide recommendations for consideration at the Planning Proposal;
- A review of NSW Environment Protection Authority (EPA) notices under the Contaminated Land Management Act 1997 (CLM Act), the Protection of the Environment Operations Act 1999 (POEO Act) environment protection licence (EPL) register and any incidents reported to the EPA; and
- Preparation of this CSA report with reference to the *Guidelines for Consultants Reporting on Contaminated Sites* (OEH, 2011) outlining the results of the desktop review including identification of key areas where insufficient information is available to adequately plan the works, and an outline of what further investigations are required to address these data gaps.

Based on our Preliminary Contamination Assessment of Lot 1 DP 783330; Lots 1 to 12 DP 976660; Lot 14 section 6 DP 97660, Lot 15 section 6 DP 97660, Lot 16 section 6 DP 97660, Lot 17 section 6 DP 97660, Lot 18 section 3 DP 97660, Lot 19 section 6 DP 97660 and Lot 20 section 6 DP 97660 Bruxner Highway, there does not appear to be any impediment to the rezoning of the subject land to industrial use.

This report has been prepared by Tim Fitzroy of *Tim Fitzroy & Associates*.



Tim Fitzroy

Environmental Health Scientist
Environmental Auditor

References

Australia and New Zealand Environment and Conservation Council (ANZECC), 1992, Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites, Australia and New Zealand Environment and Conservation Council.

Department of Environment & Climate Change, 2014, Waste Classification Guidelines, Sydney, NSW

Office of Environment & Heritage 2011, Guidelines for Consultants Reporting on Contaminated Sites, Sydney NSW

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Tim Fitzroy and Associates declares that does not have, nor expects to have, a beneficial interest in the subject project.

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A Lotsearch Data Base



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 05 Jul 2019 10:05:30

Reference: LS007212 EP

Address: Johnston Street, Casino, NSW 2470

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

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Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading "LC" or "LocConf". These codes lookup to the following location confidences:

LC Code	Location Confidence
Premise match	Georeferenced to the site location / premise or part of site
General area or suburb match	Georeferenced with the confidence of the general/approximate area
Road match	Georeferenced to the road or rail
Road intersection	Georeferenced to the road intersection
Feature is a buffered point	Feature is a buffered point
Land adjacent to geocoded site	Land adjacent to Georeferenced Site
Network of features	Georeferenced to a network of features

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Finance, Services & Innovation	05/07/2019	05/07/2019	Daily	-	-	-	-
Topographic Data	NSW Department of Finance, Services & Innovation	11/04/2019	10/04/2019	As required	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	21/06/2019	19/06/2019	Monthly	1000	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	11/06/2019	11/06/2019	Monthly	1000	0	0	0
Former Gasworks	Environment Protection Authority	01/07/2019	11/10/2017	Monthly	1000	0	0	0
National Waste Management Facilities Database	Geoscience Australia	07/05/2019	07/03/2017	Quarterly	1000	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	01/07/2019	01/07/2019	Monthly	2000	0	0	0
Defence PFAS Investigation & Management Program	Department of Defence	01/07/2019	01/07/2019	Monthly	2000	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	01/07/2019	01/07/2019	Monthly	2000	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	01/07/2019	01/07/2019	Monthly	2000	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	13/12/2018	13/12/2018	Annually	1000	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	27/06/2019	27/06/2019	Monthly	1000	0	1	2
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	27/06/2019	27/06/2019	Monthly	1000	0	1	1
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	27/06/2019	27/06/2019	Monthly	1000	0	0	4
UPSS Environmentally Sensitive Zones	Environment Protection Authority	14/04/2015	12/01/2010	As required	1000	1	1	1
UBD Business Directory 1982 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1982 (Road & Area Matches)	Hardie Grant			Not required	150	-	6	6
UBD Business Directory 1970 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1970 (Road & Area Matches)	Hardie Grant			Not required	150	-	6	6
UBD Business Directory 1961 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1961 (Road & Area Matches)	Hardie Grant			Not required	150	-	9	9
UBD Business Directory 1950 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1950 (Road & Area Matches)	Hardie Grant			Not required	150	-	2	2
UBD Business Directory Drycleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500	0	0	0
UBD Business Directory Drycleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500	-	3	3
Cattle dips of the Northern Rivers region	NSW Dept. of Primary Industries	29/11/2018	29/11/2018	Annually	1000	0	0	2
Points of Interest	NSW Department of Finance, Services & Innovation	11/04/2019	10/04/2019	Quarterly	1000	0	0	7
Tanks (Areas)	NSW Department of Finance, Services & Innovation	11/04/2019	11/04/2019	Quarterly	1000	0	0	0
Tanks (Points)	NSW Department of Finance, Services & Innovation	11/04/2019	10/04/2019	Quarterly	1000	0	0	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Major Easements	NSW Department of Finance, Services & Innovation	11/04/2019	11/04/2019	Quarterly	1000	0	0	0
State Forest	NSW Department of Finance, Services & Innovation	18/01/2018	18/01/2018	As required	1000	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	16/01/2019	14/11/2018	Annually	1000	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000	1	1	1
Botany Groundwater Management Zones	NSW Department of Primary Industries	15/03/2018	01/10/2005	As required	1000	0	0	0
Groundwater Boreholes	NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology)	24/07/2018	23/07/2018	Annually	2000	0	3	53
Geological Units 1:250,000	NSW Dept. of Industry, Resources & Energy	20/08/2014		None planned	1000	1	-	1
Geological Structures 1:250,000	NSW Dept. of Industry, Resources & Energy	20/08/2014		None planned	1000	0	-	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000	0	0	0
Soil Landscapes	NSW Office of Environment & Heritage	12/08/2014		None planned	1000	1	-	2
Atlas of Australian Soils	CSIRO	19/05/2017	17/02/2011	As required	1000	1	1	1
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning and Environment	28/06/2019	28/02/2019	Weekly	500	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Office of Environment & Heritage	12/05/2017	01/01/2002	None planned	1000	-	-	-
Mining Subsidence Districts	NSW Department of Finance, Services & Innovation	11/04/2019	11/04/2019	Quarterly	1000	0	0	0
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning and Environment	28/06/2019	07/12/2018	Weekly	1000	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning and Environment	28/06/2019	21/06/2019	Weekly	1000	1	2	11
Commonwealth Heritage List	Australian Government Department of the Environment and Energy - Heritage Branch	16/01/2019	31/07/2018	Unknown	1000	0	0	0
National Heritage List	Australian Government Department of the Environment and Energy - Heritage Branch	16/01/2019	28/09/2018	Unknown	1000	0	0	0
State Heritage Register - Curtilages	NSW Office of Environment & Heritage	15/04/2019	09/11/2018	Quarterly	1000	0	0	0
Environmental Planning Instrument Heritage	NSW Department of Planning and Environment	28/06/2019	21/06/2019	Weekly	1000	0	0	0
Bush Fire Prone Land	NSW Rural Fire Service	28/05/2019	05/04/2019	Quarterly	1000	0	0	2
Eastern Bushland Database (North Region)	NSW Office of Environment & Heritage	24/07/2016	01/01/1991	None planned	1000	0	0	0
Ramsar Wetlands of Australia	Commonwealth of Australia Department of the Environment	08/10/2014	24/06/2011	As required	1000	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	0	2
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	0	5
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	05/07/2019	05/07/2019	Weekly	10000	-	-	-

Aerial Imagery 2018

Johnston Street, Casino, NSW 2470



Contaminated Land & Waste Management Facilities

Johnston Street, Casino, NSW 2470

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist (m)	Direction
N/A	No records in buffer								

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Contaminated Land & Waste Management Facilities

Johnston Street, Casino, NSW 2470

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit
<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist (m)	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

PFAS Investigation Sites

Johnston Street, Casino, NSW 2470

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Id	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation & Management Program

Sites being investigated or managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation & Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

Johnston Street, Casino, NSW 2470

Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

Johnston Street, Casino, NSW 2470

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority



EPA Activities

Johnston Street, Casino, NSW 2470

Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
585	RICHMOND VALLEY COUNCIL	CASINO WASTEWATER TREATMENT WORKS	SPRING GROVE ROAD	CASINO	Sewage treatment processing by small plants	Premise Match	29m	North
13421	JOHN HOLLAND RAIL PTY LTD		PO Box 215 , PARRAMATTA, NSW 2124		Railway systems activities	Network of Features	784m	North West

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority



EPA Activities

Johnston Street, Casino, NSW 2470

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
5375	HOLCIM (AUSTRALIA) PTY LTD	CASINO CONCRETE	12-14 Tomki Drive	CASINO	Concrete works	Premise Match	100m	North West

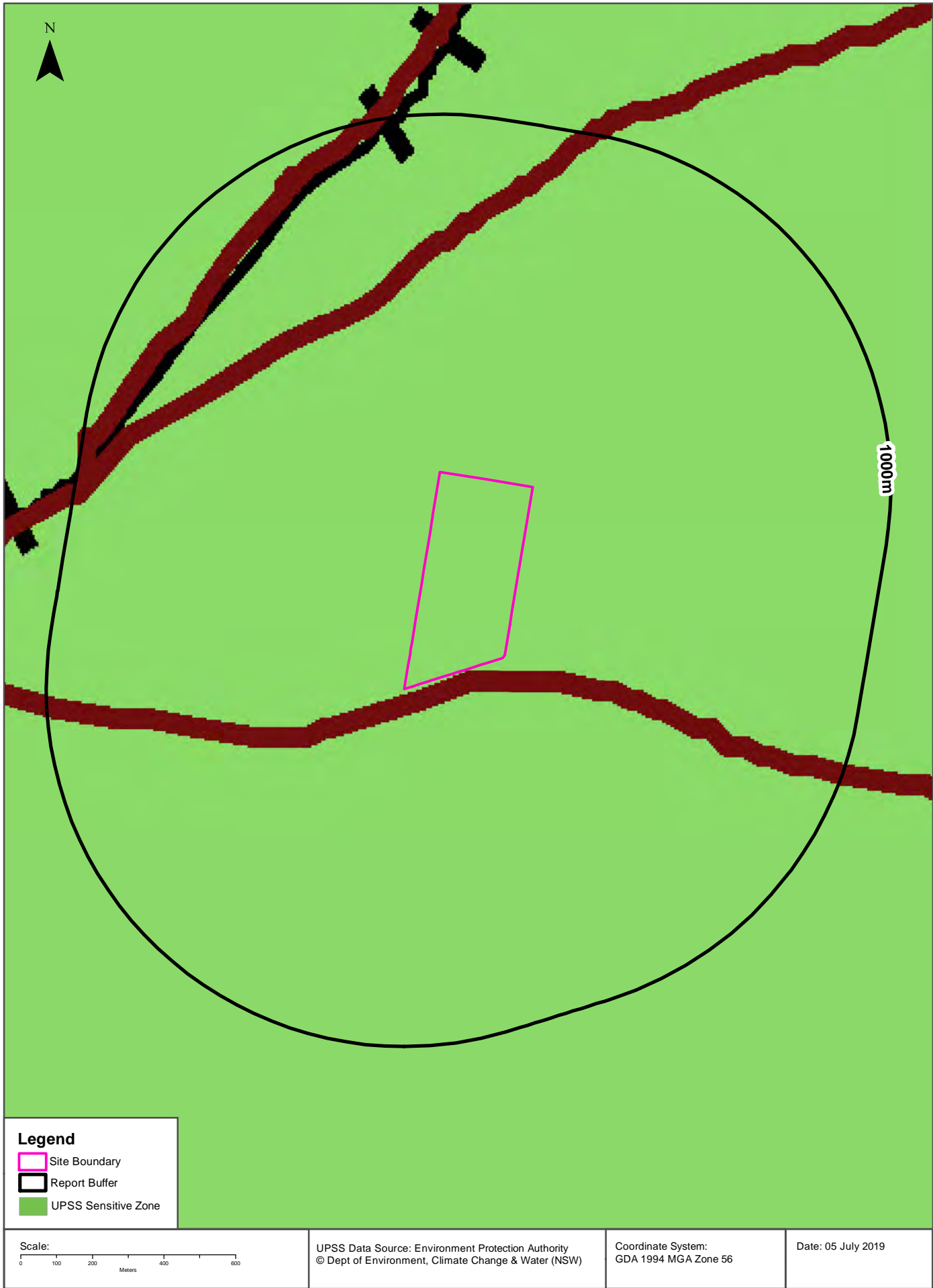
Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4292	FAR NORTH COAST COUNTY COUNCIL	COUNTY DISTRICT - LISMORE NSW 2480	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	304m	-
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	304m	-
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	304m	-
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	304m	-

Former Licensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

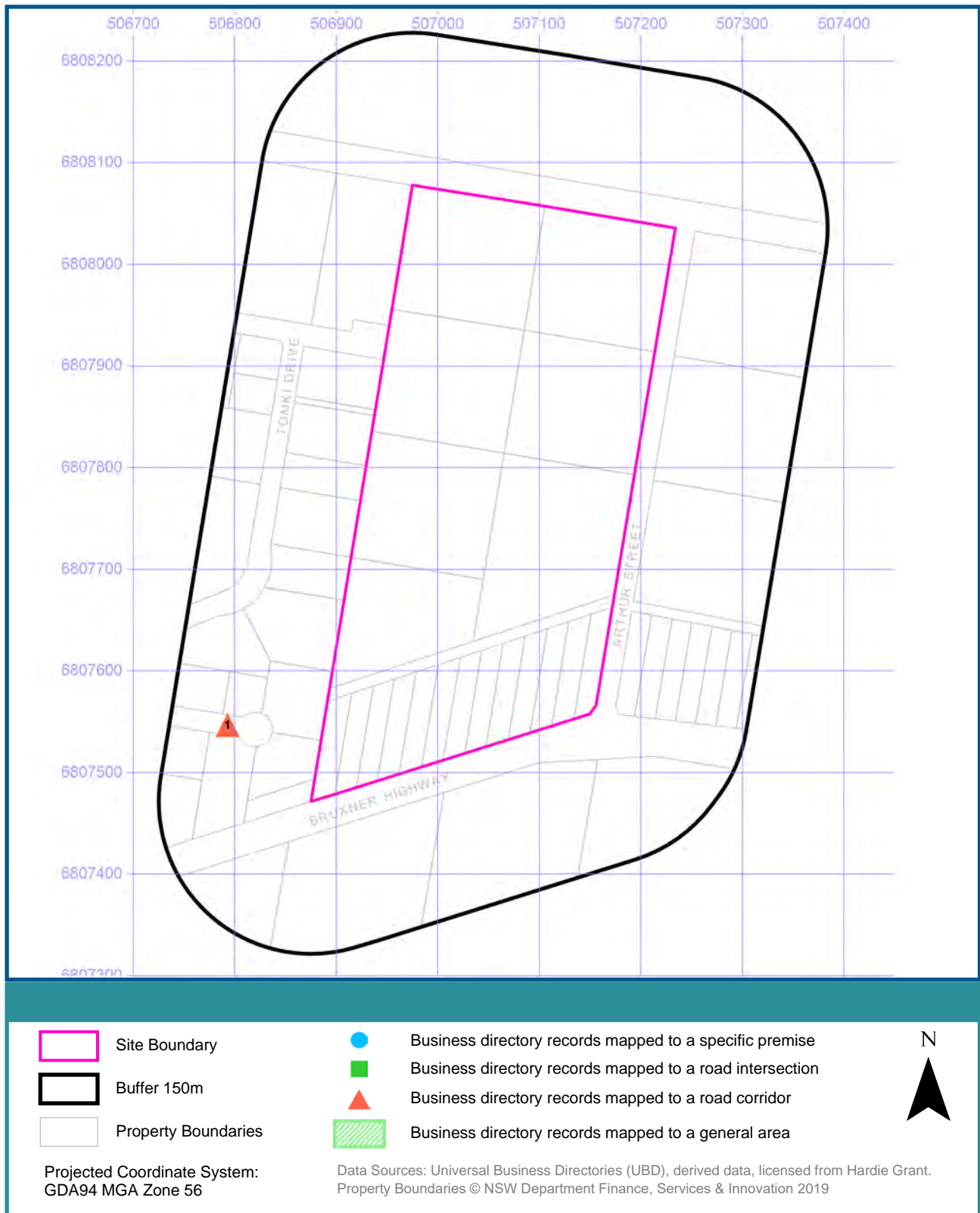


Historical Business Directories

Johnston Street, Casino, NSW 2470



1982 Business Directory Records



Historical Business Directories

Johnston Street, Casino, NSW 2470

1982 Business Directory Records Premise or Road Intersection Matches

Records from the 1982 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1982 Business Directory Records Road or Area Matches

Records from the 1982 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
1	MOTOR WRECKERS.	Second Avenue Motor Engineers Industrial Estate, Second Avenue, Casino	87366	Road Match	49m
	MOTOR BODY BUILDERS &/OR REPAIRERS.	Second Avenue Motor Engineers, industrial Estate, Second Ave., Casino	87299	Road Match	49m
	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Second Avenue Motor Engineers, Industrial Estate, Second Ave., Casino	87338	Road Match	49m
	MOTOR PAINTERS &/OR PANEL BEATERS.	Second Avenue Motor Engineers, Industrial Estate, Second Ave., Casino	87351	Road Match	49m
	MOTOR WHEEL ALIGNING & BALANCING SERVICES.	Second Avenue Motor Engineers, Industrial Estate, Second Ave., Casino	87363	Road Match	49m
	MOTOR WRECKERS.	Second Avenue Motor Engineers, Industrial Estate, Second Ave., Casino	87367	Road Match	49m

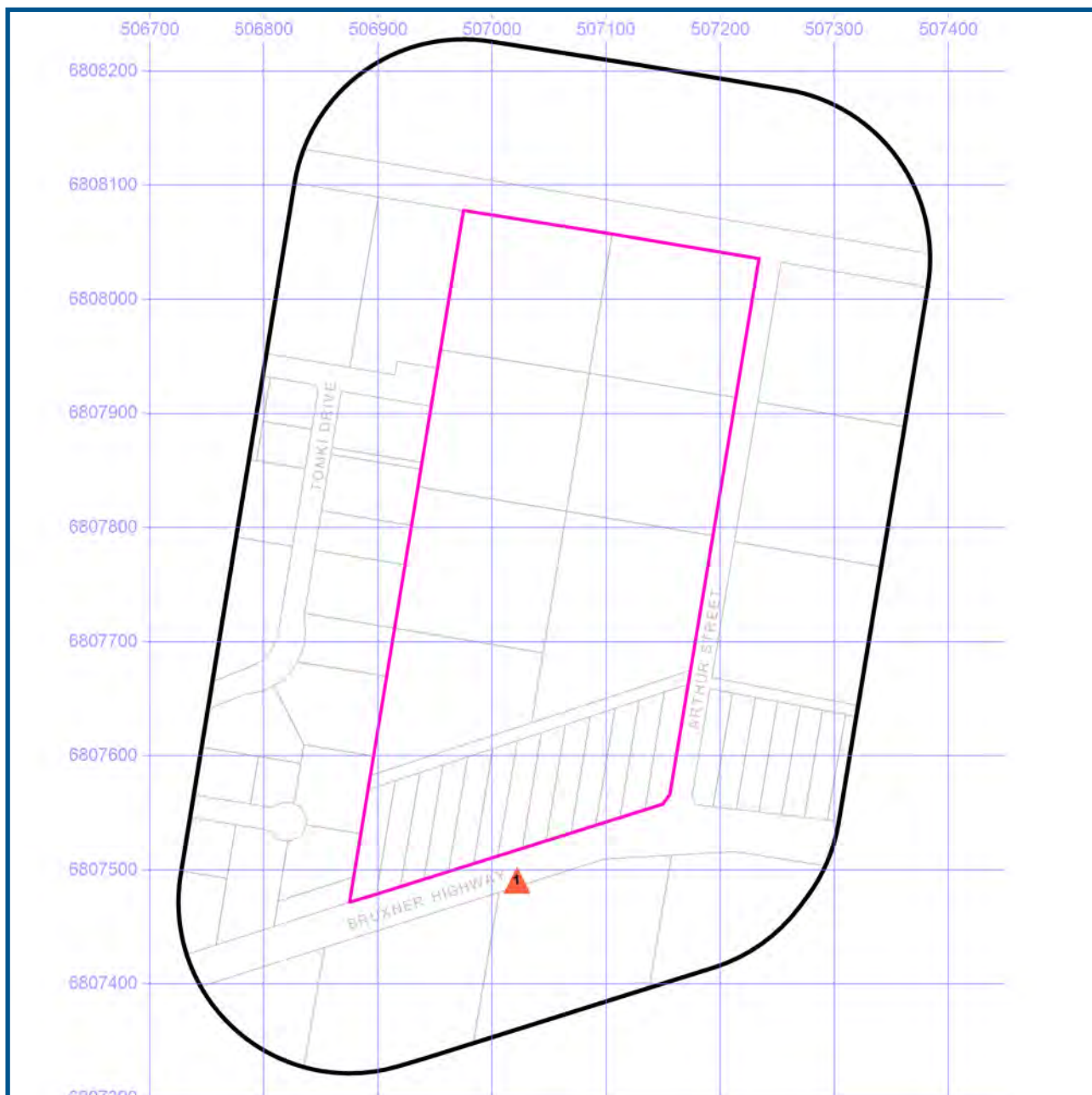
Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

Johnston Street, Casino, NSW 2470







1970 Business Directory Records



-  Site Boundary
-  Buffer 150m
-  Property Boundaries

Projected Coordinate System:
GDA94 MGA Zone 56

-  Business directory records mapped to a specific premise
-  Business directory records mapped to a road intersection
-  Business directory records mapped to a road corridor
-  Business directory records mapped to a general area

Data Sources: Universal Business Directories (UBD), derived data, licensed from Hardie Grant.
Property Boundaries © NSW Department Finance, Services & Innovation 2019



Historical Business Directories

Johnston Street, Casino, NSW 2470

1970 Business Directory Records Premise or Road Intersection Matches

Records from the 1970 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1970 Business Directory Records Road or Area Matches

Records from the 1970 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
1	PRODUCE MERCHANTS-GRAIN & SEED-RETAIL	Eggins, E. J., Johnston St., Casino	606528	Road Match	0m
	ENGINEERS-GENERAL &/OR MFRG. &/OR MECHANICAL	Taylor, C. G., Johnston St., Casino	606241	Road Match	0m
	MOTOR ACCESSORIES & SPARE PARTS DEALERS	Taylor, C. G., Johnston St., Casino	606420	Road Match	0m
	MOTOR CAR & TRUCK DEALERS-NEW & USED	Taylor, C. G., Johnston St., Casino	606434	Road Match	0m
	MOTOR GARAGES & ENGINEERS	Taylor, C. G., Johnston St., Casino	606451	Road Match	0m
	WELDERS-ELECTRIC & OXY	Taylor, C. G., Johnston St., Casino	606626	Road Match	0m

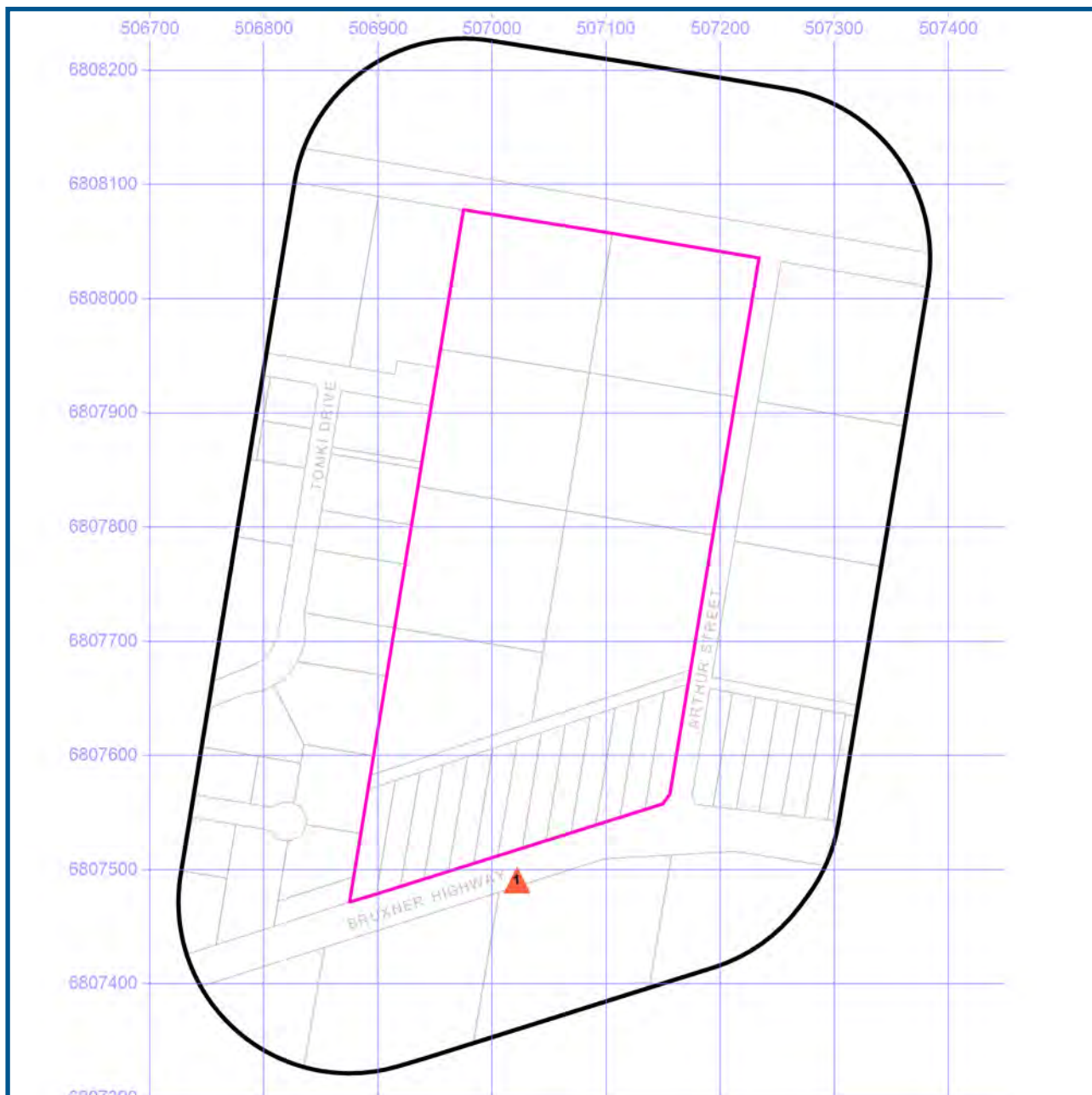
Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

Johnston Street, Casino, NSW 2470



1961 Business Directory Records



- Site Boundary
- Buffer 150m
- Property Boundaries

Projected Coordinate System:
GDA94 MGA Zone 56

- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- ▲ Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Data Sources: Universal Business Directories (UBD), derived data, licensed from Hardie Grant.
Property Boundaries © NSW Department Finance, Services & Innovation 2019



Historical Business Directories

Johnston Street, Casino, NSW 2470

1961 Business Directory Records Premise or Road Intersection Matches

Records from the 1961 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1961 Business Directory Records Road or Area Matches

Records from the 1961 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
1	SIGNWRITERS	Frogley, R., Johnston St., Casino	145915	Road Match	0m
	MIXED BUSINESSES	Hackwood, C. & J., Johnston St., Casino	145730	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OILS, ETC..	Hackwood, C. & J., Johnston St., Casino	145807	Road Match	0m
	MILK VENDORS	Lund, F. S., Johnston St., Casino	145713	Road Match	0m
	PAINTERS, PAPERHANGERS & DECORATORS	McAteer, C., 170 Johnston St., Casino	145833	Road Match	0m
	GROCERS & GENERAL STOREKEEPERS	Nicholson, P. & E. M., Johnston St., Casino	145602	Road Match	0m
	SMALLGOODS MFRS. & WHOLESALEERS	Tomki Packers Limited., Johnston St., Casino	145921	Road Match	0m
	CANNERS & CANNED FOOD SPECIALISTS	Tomki Packers Ltd., Johnston St., Casino	145406	Road Match	0m
	FOOD PROCESSORS & PACKERS	Tomki Packers Ltd., Johnston St., Casino	145527	Road Match	0m

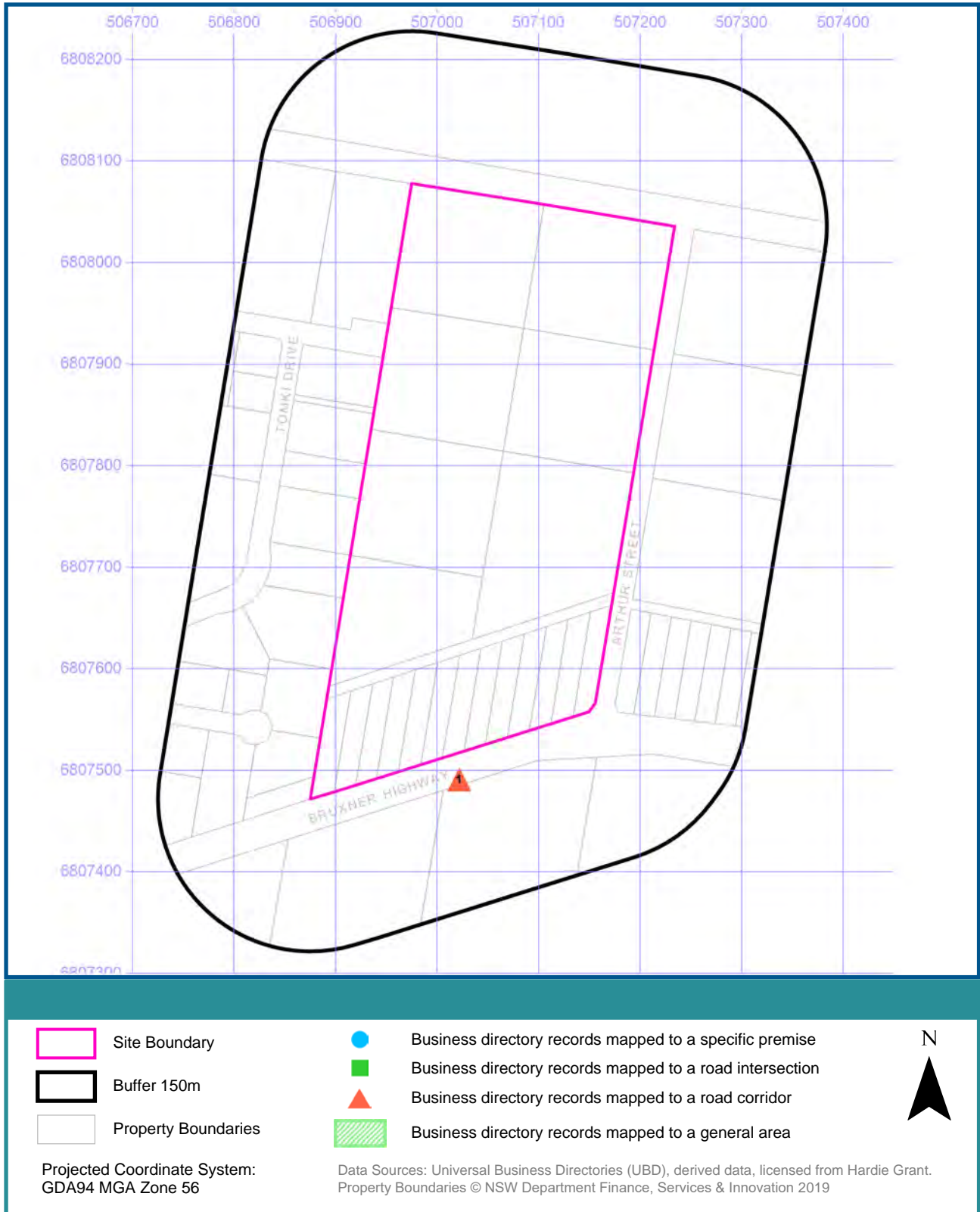
Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

Johnston Street, Casino, NSW 2470



1950 Business Directory Records



N

Historical Business Directories

Johnston Street, Casino, NSW 2470

1950 Business Directory Records Premise or Road Intersection Matches

Records from the 1950 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

1950 Business Directory Records Road or Area Matches

Records from the 1950 UBD Business Directory, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
1	TAXIS	Armstrong, S., Johnston St., Casino	159688	Road Match	0m
	MOTOR OIL & PETROL DEPOTS	Atlantic Oil Co., Johnston St., Casino	159548	Road Match	0m

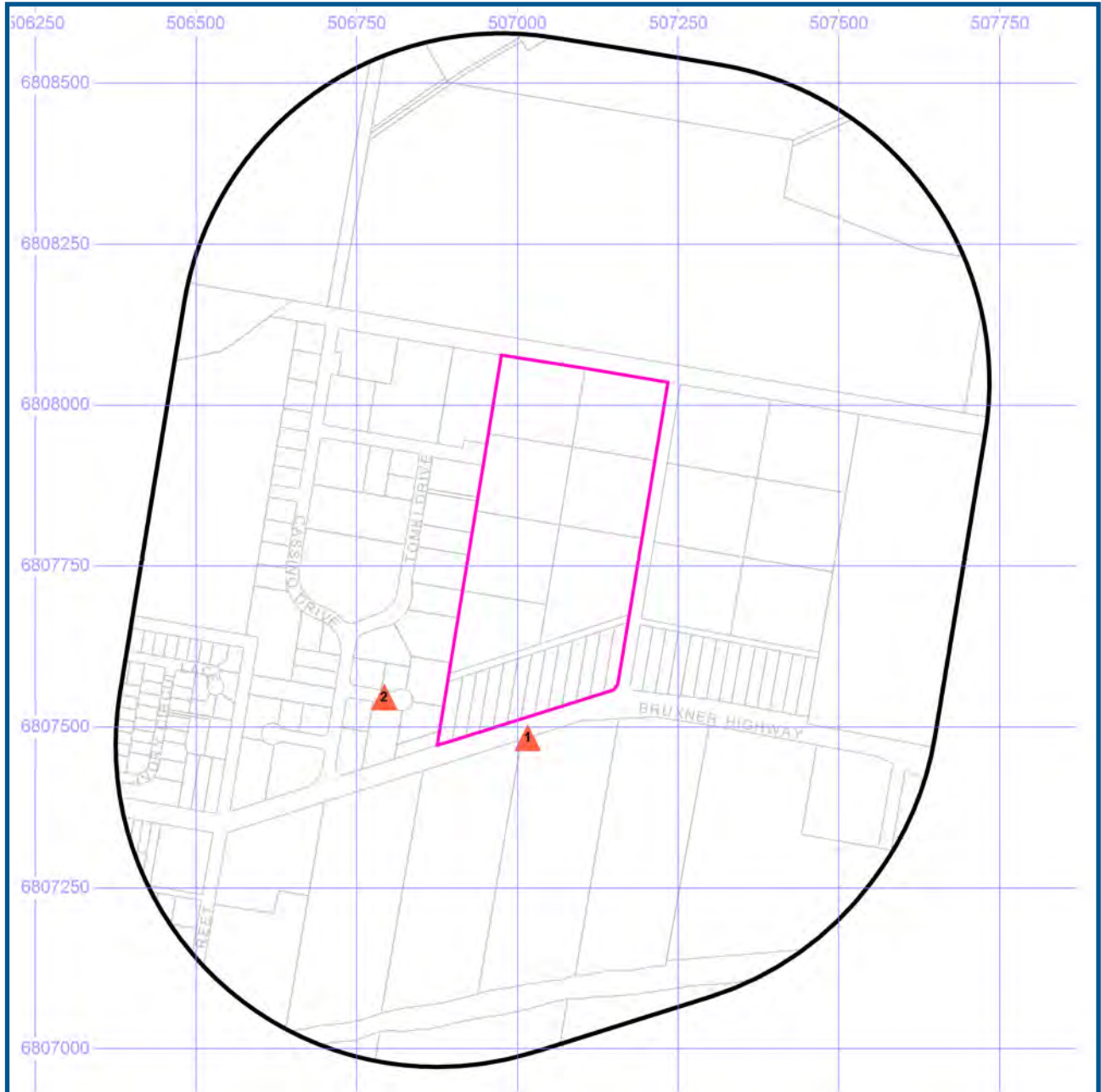
Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Historical Business Directories

Johnston Street, Casino, NSW 2470



Dry Cleaners, Motor Garages & Service Stations



- Site Boundary
- Buffer 500m
- Property Boundaries

Projected Coordinate System:
GDA94 MGA Zone 56

- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- ▲ Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Data Sources: Universal Business Directories (UBD), derived data, licensed from Hardie Grant.
Property Boundaries © NSW Department Finance, Services & Innovation 2019



Historical Business Directories

Johnston Street, Casino, NSW 2470

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
	No records in buffer						

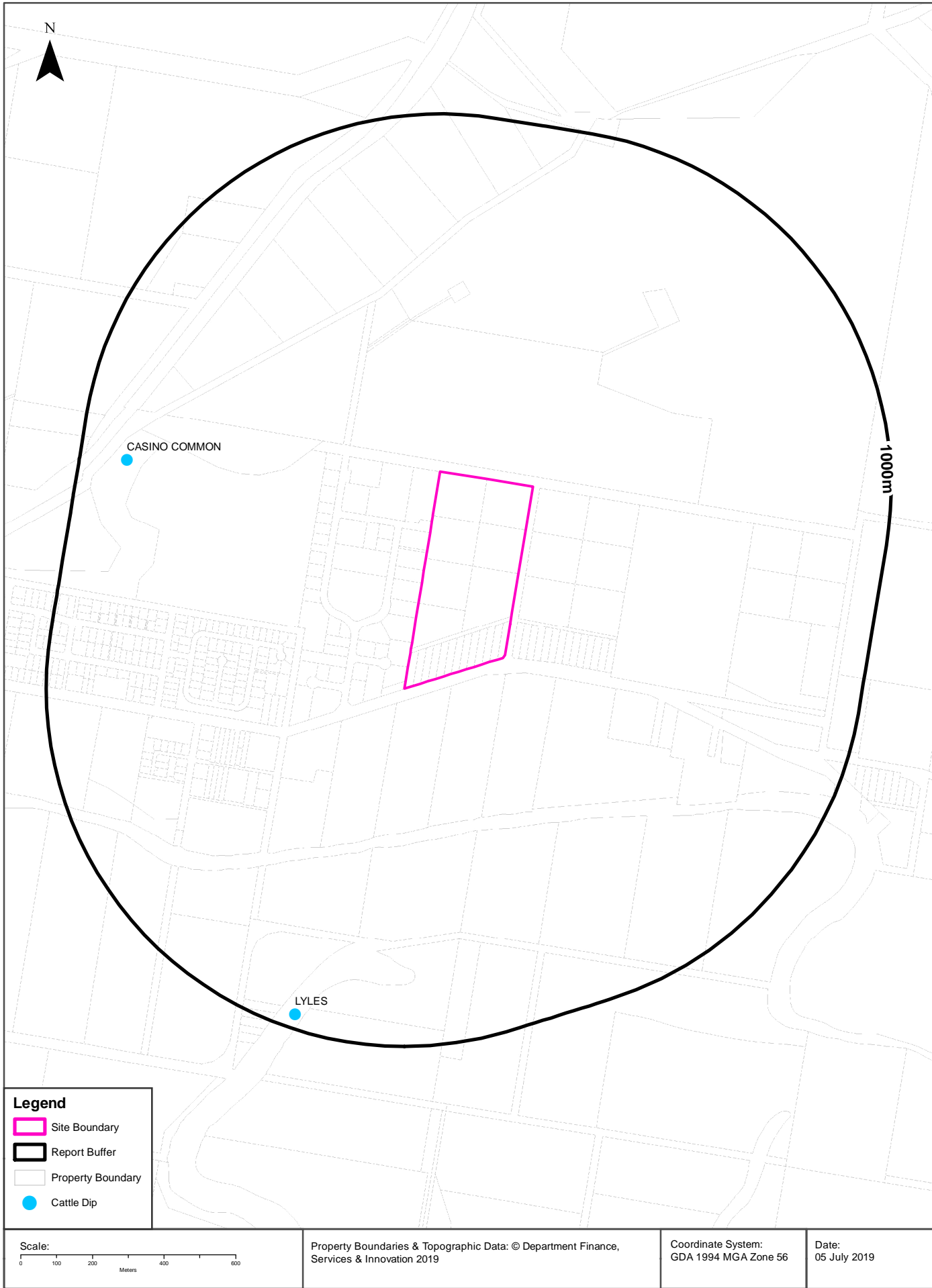
Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	MOTOR GARAGES & ENGINEERS	Taylor, C. G., Johnston St., Casino	606451	1970	Road Match	0m
	MOTOR SERVICE STATIONS-PETROL, OILS, ETC..	Hackwood, C. & J., Johnston St., Casino	145807	1961	Road Match	0m
2	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Second Avenue Motor Engineers, Industrial Estate, Second Ave., Casino	87338	1982	Road Match	49m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant



Cattle Dips

Johnston Street, Casino, NSW 2470

Cattle Dips of the Northern Rivers Region

Cattle dip sites within the dataset buffer:

Dip Name	Road	Town	Dip Status	Licence / Lease Status	Licence / Lease Expiry Date	Distance (m)	Direction
CASINO COMMON	SPRINGGROVE ROAD	CASINO	LAPSED	ACTIVE		869	West
LYLES	HORSESHOE LAGOON ROAD	VIA CASINO	DECOMM BATH	LAPSED	1/31/2003 12:00:00 AM	960	South

Cattle dip site data provided by the NSW Department of Primary Industries.



Aerial Imagery 2009

Johnston Street, Casino, NSW 2470

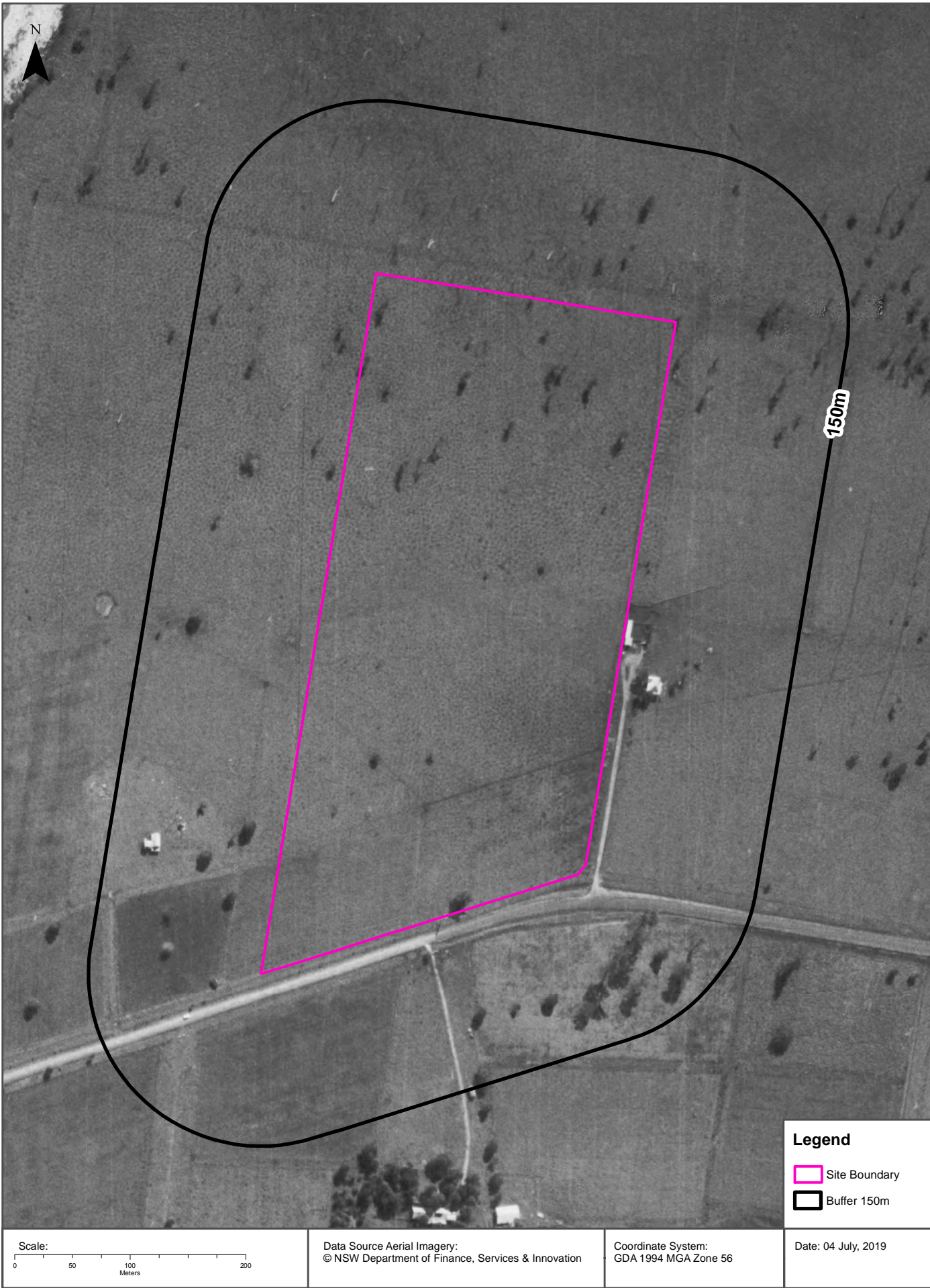




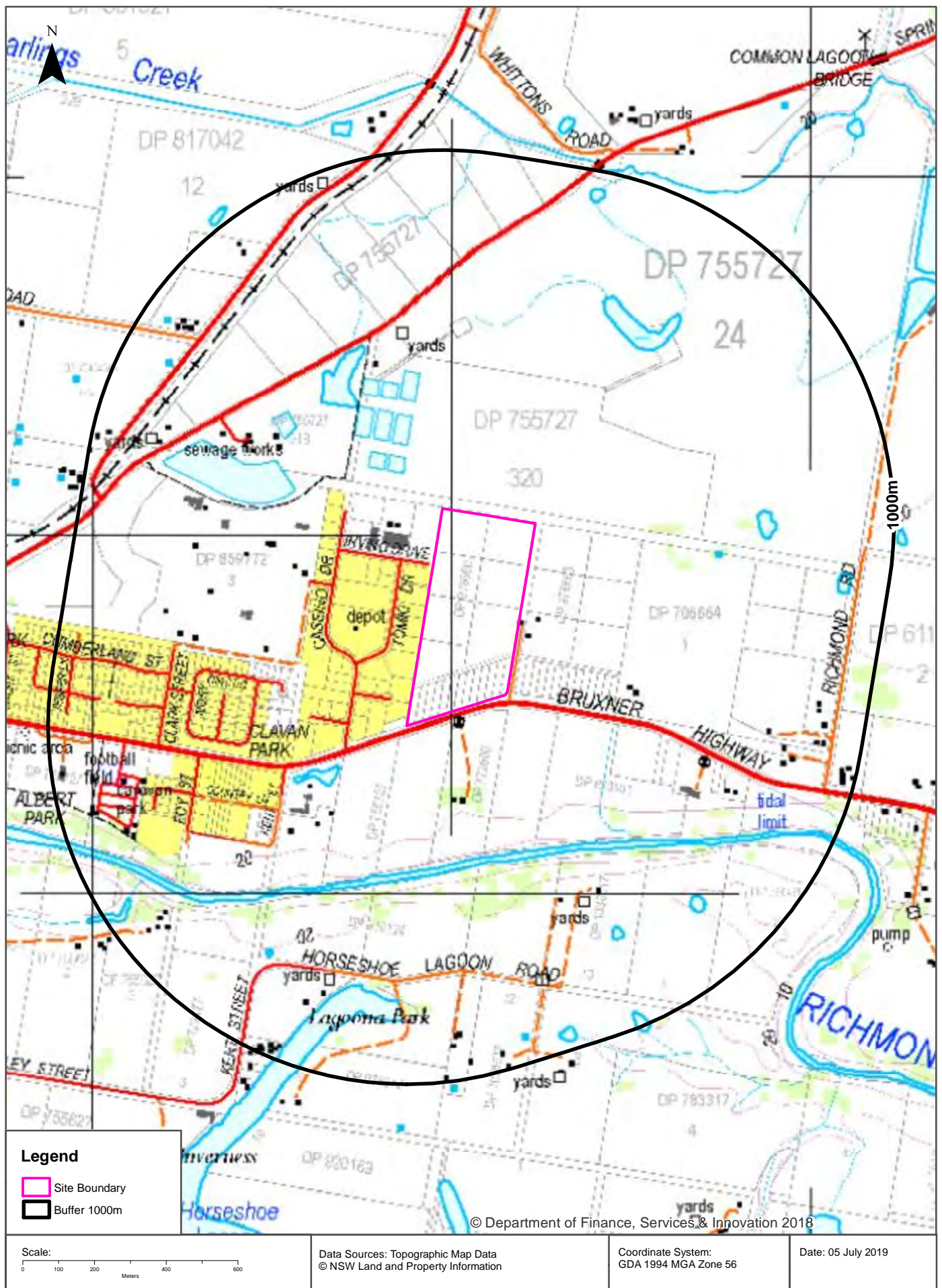






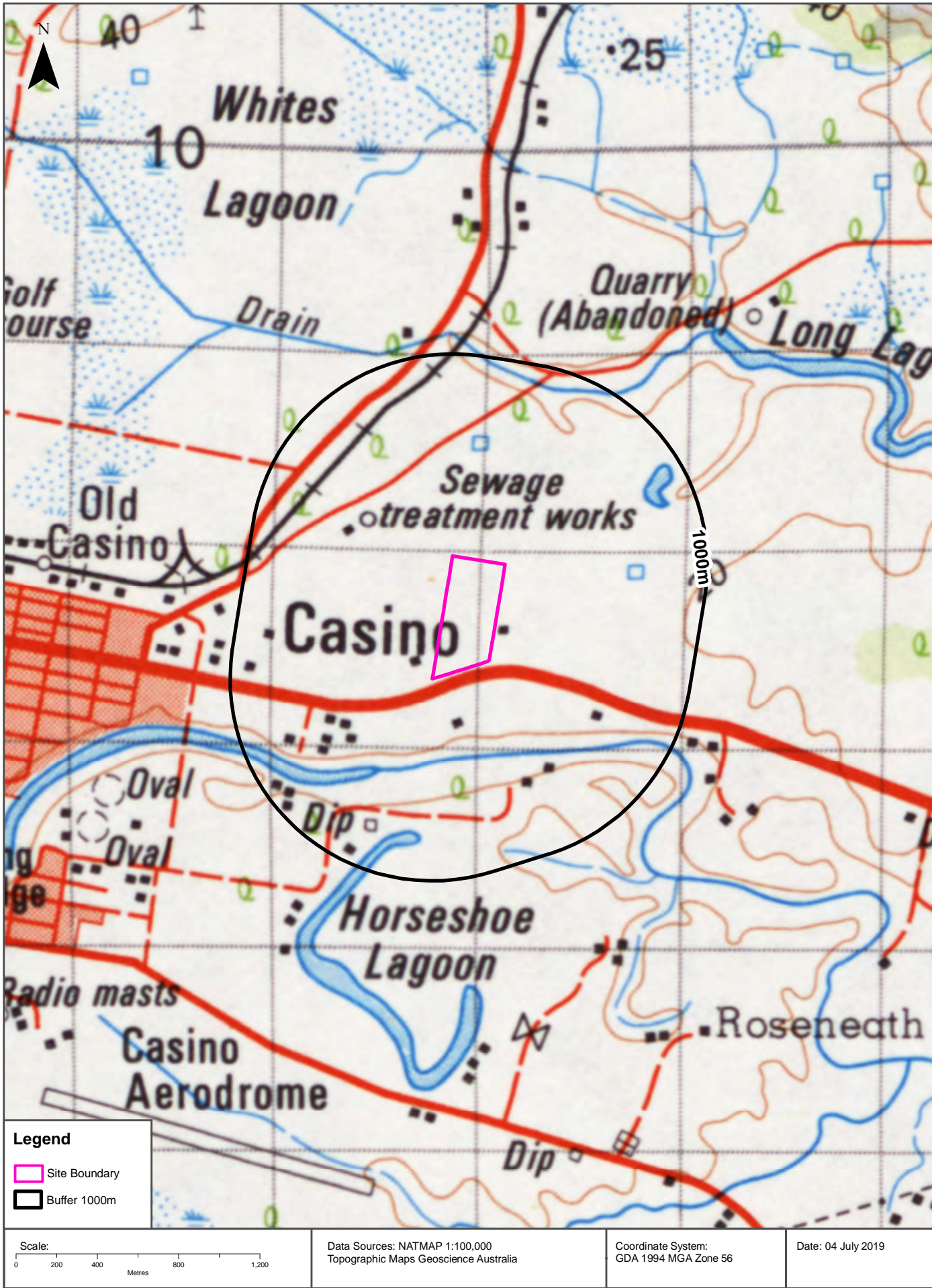






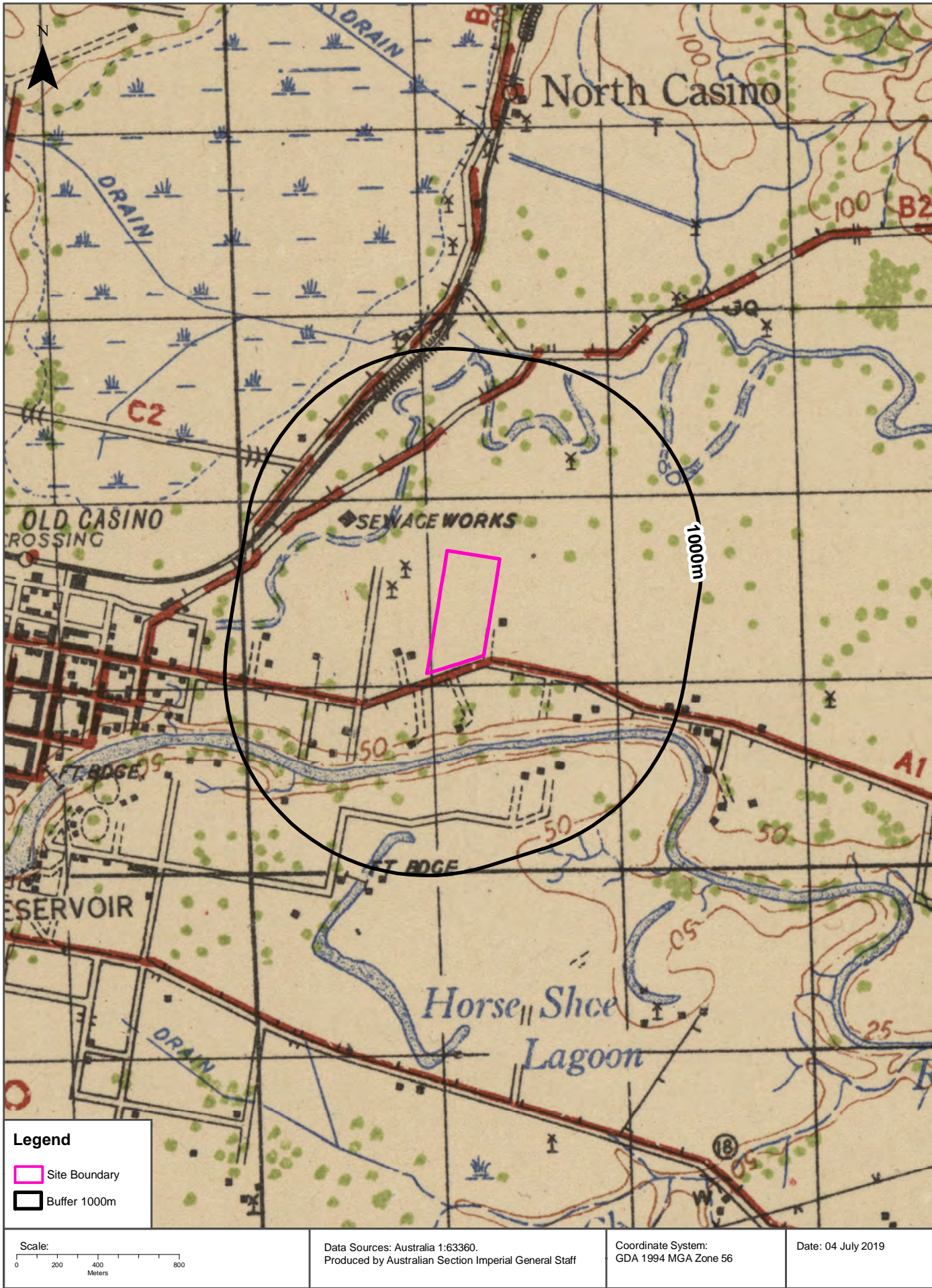
Historical Map 1974

Johnston Street, Casino, NSW 2470



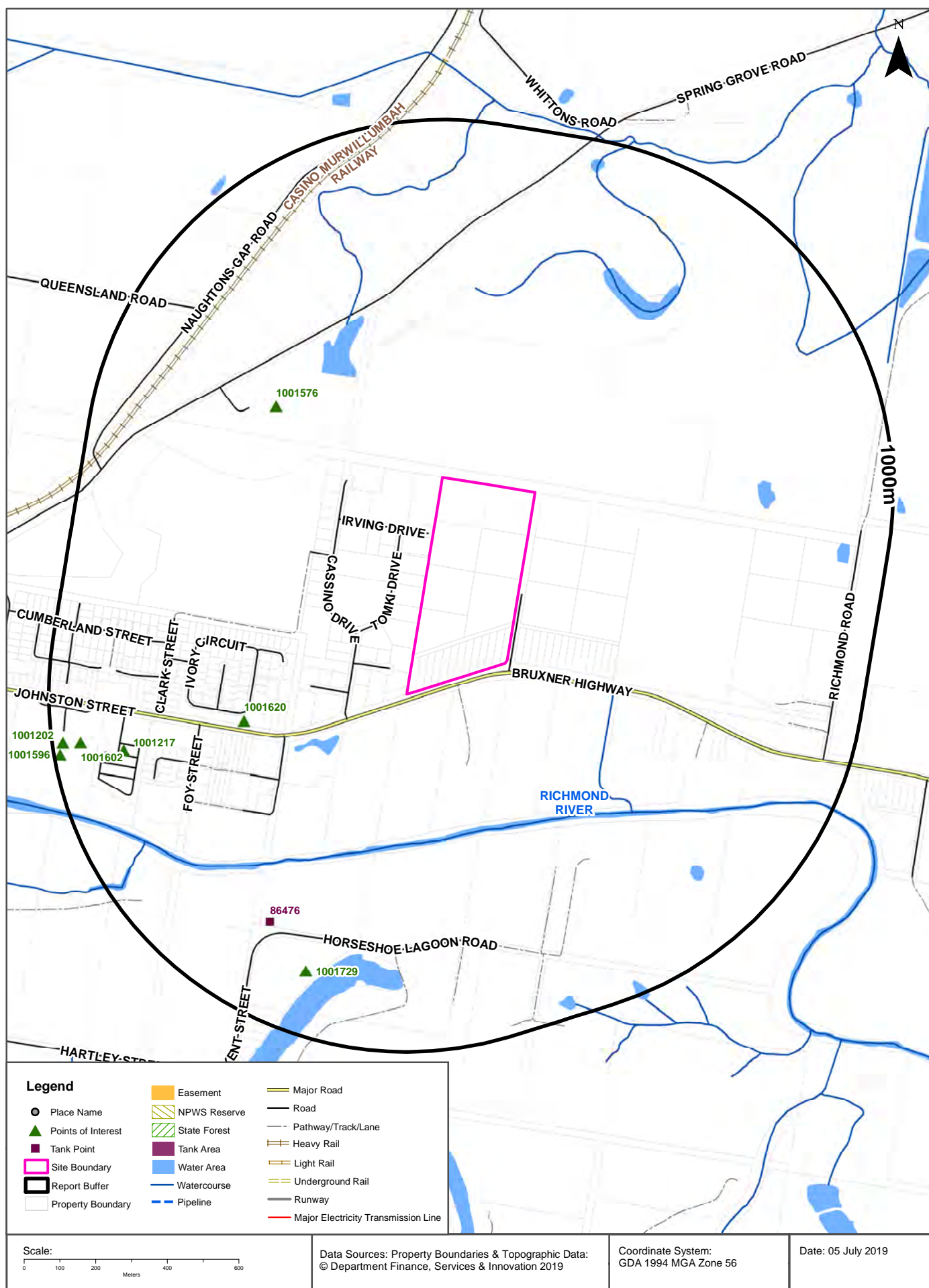
Historical Map c.1942

Johnston Street, Casino, NSW 2470



Topographic Features

Johnston Street, Casino, NSW 2470



Topographic Features

Johnston Street, Casino, NSW 2470

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
1001620	Park	CLAVAN PARK	460m	South West
1001576	Sewage Works	CASINO WASTE WATER TREATMENT WORKS	505m	North West
1001217	Tourist Park / Home Village	GLEN VILLA RESORT CASINO	805m	South West
1001729	Homestead	LAGOONA PARK	823m	South West
1001602	Sports Field	FOOTBALL FIELD	920m	West
1001202	Community Facility	CASINO RUGBY UNION CLUB	969m	West
1001596	Park	ALBERT PARK	982m	South West

Topographic Data Source: © Land and Property Information (2015)

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Topographic Features

Johnston Street, Casino, NSW 2470

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
86476	Water	Operational		01/09/2012	742m	South West

Tanks Data Source: © Land and Property Information (2015)

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Major Easements

What Major Easements exist within the dataset buffer?

Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
N/A	No records in buffer				

Easements Data Source: © Land and Property Information (2015)

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Topographic Features

Johnston Street, Casino, NSW 2470

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)

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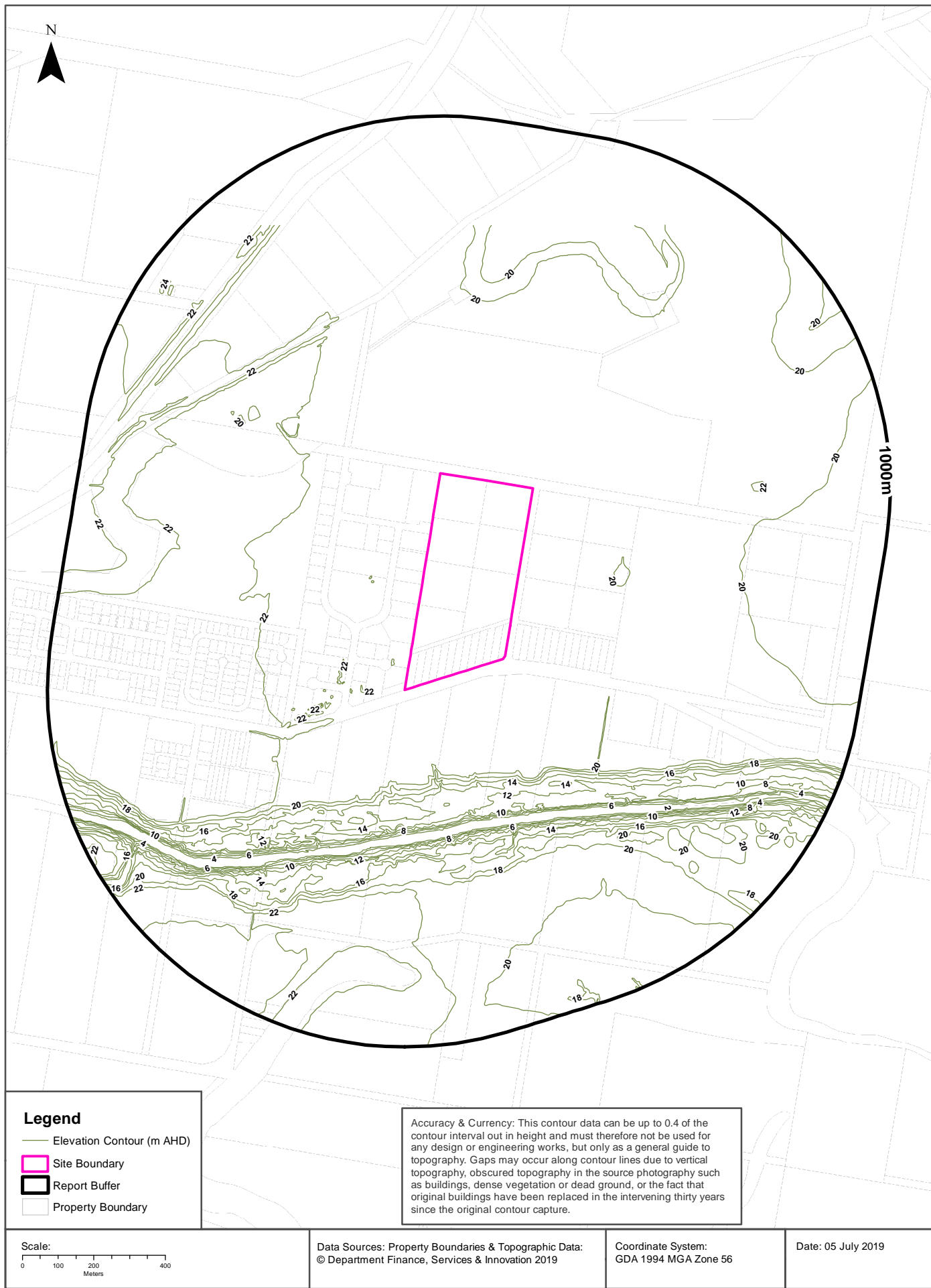
National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)

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Hydrogeology & Groundwater

Johnston Street, Casino, NSW 2470

Hydrogeology

Description of aquifers on-site:

Description
Porous, extensive highly productive aquifers

Description of aquifers within the dataset buffer:

Description
Porous, extensive highly productive aquifers

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)

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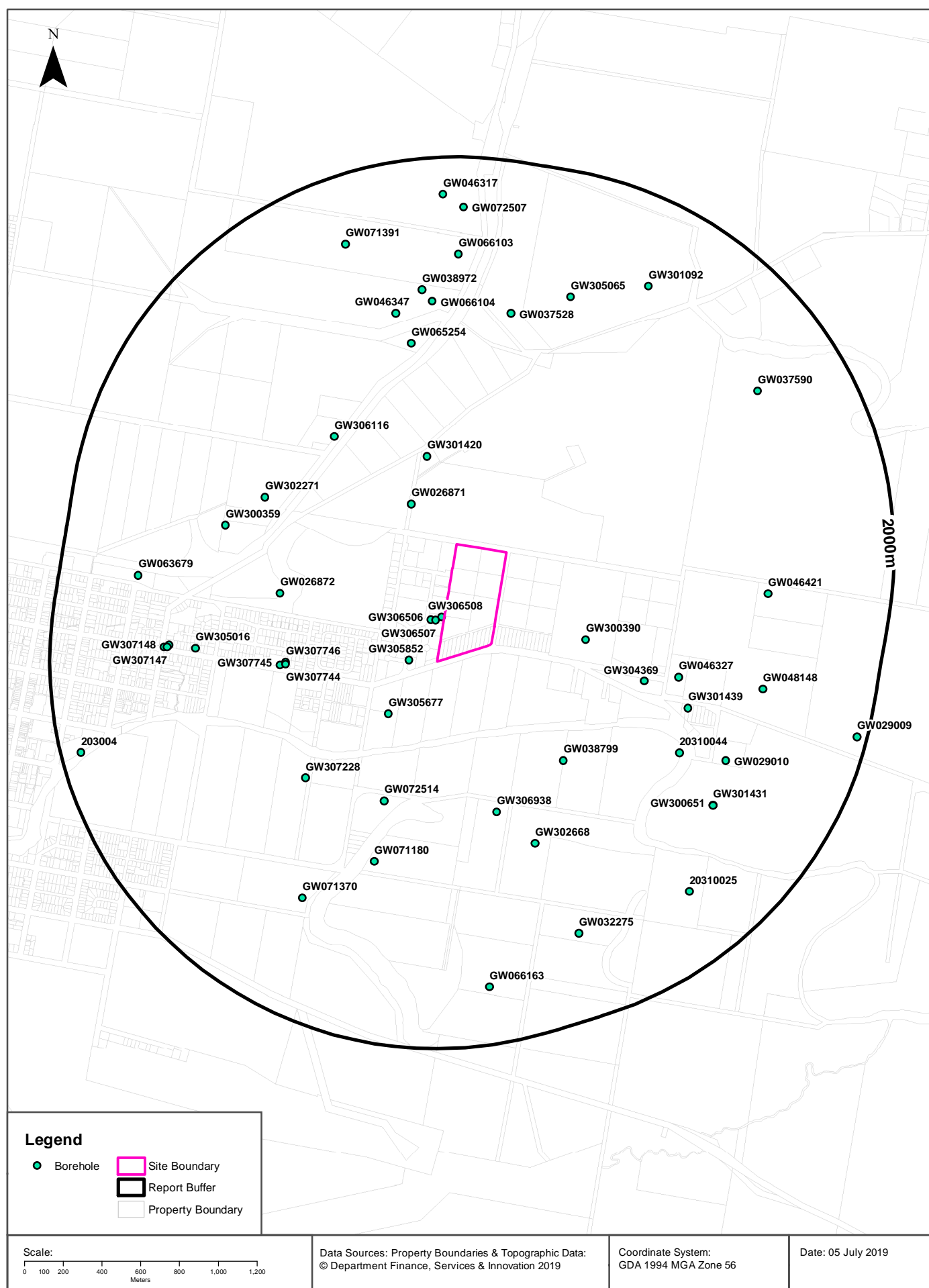
Botany Groundwater Management Zones

Groundwater management zones relating to the Botany Sand Beds aquifer within the dataset buffer:

Management Zone No.	Restriction	Distance	Direction
N/A	No records in buffer		

Botany Groundwater Management Zones Data Source : NSW Department of Primary Industries

Johnston Street, Casino, NSW 2470



Hydrogeology & Groundwater

Johnston Street, Casino, NSW 2470

Groundwater Boreholes

Boreholes within the dataset buffer:

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW306 508	30BL185 375	Bore	Private	Monitoring Bore	Monitoring Bore		03/04/2009	6.00	6.00		4.94			12m	South West
GW306 507	30BL185 375	Bore	Private	Monitoring Bore	Monitoring Bore		03/04/2009	6.00	6.00		5.05			40m	South West
GW306 506	30BL185 375	Bore	Private	Monitoring Bore	Monitoring Bore		03/04/2009	6.00	6.00		4.92			65m	South West
GW305 852	30BL184 209, 30BL184 341, 30WA30 7023	Bore	Private	Industrial, Test Bore	Test Bore		07/07/2006	42.00	42.00			0.800		143m	South West
GW026 871	30BL020 035	Bore	Private	Irrigation	Irrigation		01/06/1967	19.20	19.20					310m	North West
GW305 677	30BL179 330, 30WA30 7017	Bore	Private	Commercial, Domestic, Stock	Stock		13/03/2006	33.50				0.375		368m	South West
GW301 420	30BL177 224, 30WA30 4897	Bore		Stock	Stock		06/02/1996	21.00	21.00	Good	5.00	4.200		477m	North
GW300 390	30BL141 872, 30WA30 5548	Bore	Private	Domestic, Stock	Domestic, Stock		31/12/1990	12.00						479m	East
GW038 799	30BL101 682, 30WA30 5478	Bore	Private	Stock	Stock			36.50	36.60	Good Stock				707m	South East
GW072 514	30BL153 160, 30WA30 5557	Bore	Private	Domestic, Stock	Domestic, Stock		06/10/1993	49.00	49.00		13.10	0.500		771m	South West
GW307 746	30BL185 748			Monitoring Bore	Monitoring Bore		28/02/2011	9.00	9.00		5.68			781m	West
GW307 744	30BL185 748			Monitoring Bore	Monitoring Bore		28/02/2011	8.50	8.50		5.77			781m	West
GW307 745	30BL185 748			Monitoring Bore	Monitoring Bore		28/02/2011	8.00	8.00		5.75			810m	West
GW304 369	30BL182 037, 30WA30 4928	Bore	Private	Domestic	Domestic		09/11/2003	78.00	78.00	770	18.50	0.800		813m	South East
GW306 938	30BL182 898, 30WA30 5614	Bore	Private	Domestic	Domestic		03/11/2004	33.00	33.00	550	17.00	0.750		834m	South
GW306 116	30BL183 667, 30WA30 4948	Bore	Private	Domestic, Stock	Domestic, Stock		08/09/2005	12.00	12.00		5.00	1.000		840m	North West
GW026 872	30BL019 480	Bore open thru rock	Private	Irrigation	Irrigation		01/01/1967	15.70	15.70	501-1000 ppm				856m	West
GW307 228	30WA30 7539	Bore	Private	Stock	Stock		25/07/2012	37.00	37.00		16.00	2.500		908m	South West

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW046 327	30BL101 454, 30WA30 4801	Bore	Private	Stock	Stock			21.30	21.30	Good				984m	East
GW302 271	30BL178 783, 30WA30 4910	Bore		Domestic	Domestic		31/12/1989	16.00		Good	3.00	1.500		1016m	North West
GW302 668	30BL179 416, 30WA30 4918	Bore		Domestic, Stock	Domestic, Stock		25/06/2001	53.00	53.00		15.40	0.500		1049m	South
GW065 254	30BL137 832, 30WA30 4868	Bore	Private	Domestic, Stock	Domestic, Stock		28/04/1988	25.00		Good		0.200		1062m	North
GW301 439	30BL177 298, 30WA30 4901	Bore		Domestic, Stock	Domestic		23/04/1996	30.00	30.00	Good	16.00	0.354		1069m	South East
GW071 180	30BL153 137, 30WA30 5556			Stock	Stock		02/10/1993	26.00	26.00		5.60	0.750	20.00	1084m	South
203100 44					UNK								13.93	1125m	South East
GW300 359	30BL153 250	Bore	Private	Domestic, Stock	Domestic, Stock		11/11/1995	6.00	6.00					1190m	West
GW037 528	30BL101 968, 30WA30 4825	Bore open thru rock	Private	Stock	Stock			24.30		Stock				1220m	North
GW046 347	30BL103 959, 30WA30 4831	Well & Bore	Private	Stock	Stock		01/01/1939	12.20	12.20	Hard				1231m	North
GW305 016	30BL183 175, 30WA30 5616	Bore		Domestic	Domestic		11/01/2005	32.00	32.00	1000	10.00	1.000		1248m	West
GW066 104	30BL144 142, 30WA30 4872	Bore	Private	Stock			09/09/1991	30.50	30.50				20.00	1258m	North
GW038 972	30BL101 802, 30WA30 4818	Bore open thru rock	Private	Stock	Stock			15.80	15.80	Fair				1326m	North
GW029 010	30BL023 458, 30WA30 4755	Bore open thru rock	Private	Stock	Not Known		01/11/1968	36.00	36.00					1355m	South East
GW305 065	30BL183 120, 30WA30 4941	Bore		Stock	Stock		11/01/2005	19.50	19.50			0.250		1359m	North
GW046 421	30BL101 453, 30WA30 4800	Bore	Private	Stock	Stock			14.60	14.60	Good Stock				1368m	East
GW307 146	30BL185 904	Bore	Private	Monitoring Bore	Monitoring Bore	Casino Roadhouse - MW1	20/03/2012	6.50	6.50					1384m	West
GW307 147	30BL185 904	Bore	Private	Monitoring Bore	Monitoring Bore	Casino Roadhouse - MW2	20/03/2012	6.50	6.50					1394m	West
GW071 370	30BL152 355, 30WA30 5555	Bore		Domestic	Domestic		07/06/1993	32.00	32.00	Good				1406m	South West
GW307 148	30BL185 904	Bore	Private	Monitoring Bore	Monitoring Bore	Casino Roadhouse - MW3	20/03/2012	5.50	5.50					1411m	West

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW301431	30BL177244, 30WA304900	Bore		Domestic, Stock	Domestic		26/02/1996	23.00	23.00	Good	15.00	0.708		1417m	South East
GW300651	30BL177600, 30WA304904	Bore	Private	Domestic, Stock	Domestic, Stock		31/01/1997	27.00	27.00	Good	8.00	3.543		1418m	South East
GW048148	30BL106521, 30BL106945, 30WA304841	Bore	Private	Stock	Stock		01/07/1977	10.90	10.90	1001-3000 ppm				1421m	East
GW066103	30BL144141, 30WA304871	Bore	Private	Stock			08/09/1991	29.00	29.00				20.00	1498m	North
GW037590	30BL101452, 30WA304799	Bore	Private	Stock	Stock			9.10	9.10	Good				1541m	North East
GW301092	30BL176807, 30WA304889	Bore		Domestic, Stock	Domestic, Stock		23/05/1995	94.50	94.50			0.200		1557m	North East
GW032275	30BL024724, 30WA304757	Well & Bore	Private	Domestic, Stock	Domestic, Stock		01/03/1970	31.70	31.70					1559m	South
GW063679	30BL135270	Bore	Private	Test Bore	G/water Xplore		01/10/1986	64.00	64.00					1593m	West
20310025					UNK								17.40	1638m	South East
GW071391	30BL153006, 30WA304880	Bore		Stock	Stock		11/09/1993	62.50	62.50					1651m	North
GW066163	30BL144479, 30WA304873	Bore	Private	Domestic	Domestic		12/11/1991	18.00					2.30	1703m	South
GW072507	30BL153049	Bore	Private	Stock	Stock		14/09/1993	30.50	30.50		6.20	4.500		1739m	North
GW046317	30BL100909	Bore	Private	Domestic, Stock	Domestic, Stock		01/01/1952	25.00	25.00	Brackish				1807m	North
203004					UNK								30.60	1896m	West
GW029009	30BL023457, 30WA304754	Well	Private	Stock	Stock		01/11/1968	30.80	30.80	Fresh				1950m	East

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

Johnston Street, Casino, NSW 2470

Driller's Logs

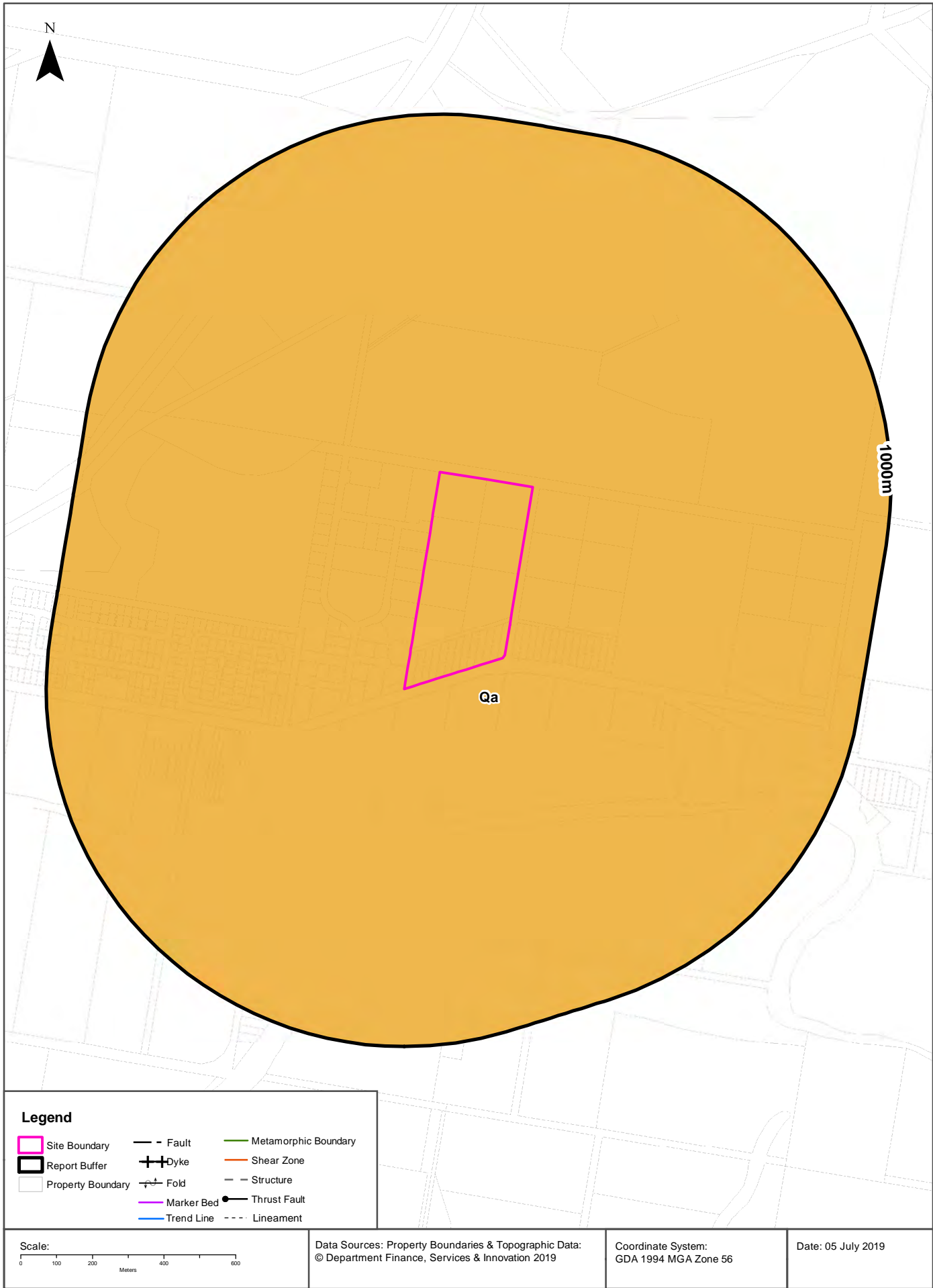
Drill log data relevant to the boreholes within the dataset buffer:

Groundwater No	Drillers Log	Distance	Direction
GW306508	0.00m-6.00m Clay, dark brown, high plasticity	12m	South West
GW306507	0.00m-3.00m Clay, brown to dark brown, high plasticity, minor organic inclusions 3.00m-4.80m Clay, as above, but orange-brown mottling 4.80m-5.20m Sandy Clay, dark brown, high plasticity, fine grained sand 5.20m-6.00m Sand, Clay, as above, but minor fine gravels	40m	South West
GW306506	0.00m-4.80m Clay, dark brown, medium to high plasticity 4.80m-6.00m Sandy Clay, dark brown to grey, high plasticity, fine to medium grained sand	65m	South West
GW305852	0.00m-2.40m soil 2.40m-26.00m clay 26.00m-27.00m sand 27.00m-32.00m sandstone, dec 32.00m-42.00m sandstone & shale	143m	South West
GW026871	0.00m-1.52m Clay 1.52m-7.92m Clay Sandy Silt 7.92m-10.97m Sand Silt 10.97m-17.67m Sand Black 17.67m-18.59m Sand Black Water Supply 18.59m-19.20m Clay Black	310m	North West
GW301420	0.00m-1.00m TOPSOIL 1.00m-16.00m CLAY 16.00m-19.00m SAND 19.00m-21.00m CLAY	477m	North
GW038799	0.00m-23.16m Clay 23.16m-28.95m Sandstone Soft Water Supply 28.95m-36.57m Sandstone	707m	South East
GW072514	0.00m-0.60m Soil 0.60m-5.20m Clay 5.20m-14.30m Sand 14.30m-25.60m Clay 25.60m-49.00m Firm Sandstone/shale	771m	South West
GW304369	0.00m-17.60m BROWN CLAY 17.60m-25.90m GREY CLAY 25.90m-27.40m SAND 27.40m-32.00m DEC SANDSTONE 32.00m-48.70m SANDSTONE 48.70m-54.80m MUDSTONE SHALE 54.80m-78.00m SANDSTONE	813m	South East
GW306938	0.00m-2.00m BLACK SOIL 2.00m-6.00m CLAY BROWN 6.00m-10.00m CLAY YELLOW 10.00m-20.00m CLAY BROWN WET 20.00m-22.00m UNKNOWN 22.00m-33.00m SAND GREY	834m	South
GW306116	0.00m-1.80m Soil 1.80m-6.00m Clay 6.00m-12.00m Clay & Sand layers	840m	North West
GW026872	0.00m-6.09m Clay 6.09m-7.31m Clay Sandy 7.31m-9.75m Sand Water Supply 9.75m-10.36m Clay 10.36m-13.41m Sand Black Water Supply 13.41m-15.24m Clay Sandy Coal Fossils:wood 15.24m-15.69m Sandstone	856m	West

Groundwater No	Drillers Log	Distance	Direction
GW307228	0.00m-3.00m Topsoil; black 3.00m-4.00m Clay 4.00m-8.00m Clay, Sandy 8.00m-18.00m Sand; moisture @ 16m, 18.00m-37.00m Sandstone	908m	South West
GW046327	0.00m-9.14m Driller 9.14m-18.29m Sand Clay 18.29m-21.34m Sand Water Supply	984m	East
GW302668	0.00m-1.20m Black Soil 1.20m-5.40m Clay 5.40m-24.30m Sandy Clay 24.30m-32.00m Sand 32.00m-33.50m Dec Sandstone 33.50m-53.00m Sandstone + Shale layers	1049m	South
GW301439	0.00m-1.00m TOPSOIL 1.00m-6.00m BLACK CLAY 6.00m-16.00m BROWN CLAY 16.00m-18.00m BLACK CLAY 18.00m-26.00m SANDY LOAM 26.00m-30.00m SANDSTONE	1069m	South East
GW071180	0.00m-0.60m Soil 0.60m-8.50m Clay 8.50m-24.00m Sandy Clay 24.00m-26.00m Sandstone interbedded with shale	1084m	South
GW046347	0.00m-7.92m Soil Black 7.92m-12.19m Sandstone Water Supply	1231m	North
GW305016	0.00m-1.20m soil 1.20m-18.80m clay 18.80m-32.00m sandstone	1248m	West
GW066104	0.00m-0.30m SANDY SOIL 0.30m-6.70m CLAY 6.70m-17.40m SOFT SCHIST 17.40m-30.50m FIRM SANDSTONE SHALE	1258m	North
GW038972	0.00m-6.09m Soil 6.09m-6.70m Basalt 6.70m-15.84m Sandstone Water Supply	1326m	North
GW029010	0.00m-0.30m Topsoil 0.30m-29.26m Clay Multicoloured 29.26m-32.30m Sand Clay Fine 32.30m-35.96m Sandstone Grey	1355m	South East
GW305065	0.00m-0.30m black soil 0.30m-9.80m puggy clay 9.80m-16.70m sand & clay with sand layers 16.70m-19.50m soft sandstone	1359m	North
GW046421	0.00m-6.10m Clay Black 6.10m-9.75m Sand Water Supply 9.75m-12.80m Clay Light Sandy 12.80m-14.63m Sand Dark Greenish Grey Water Supply	1368m	East
GW307146	0.00m-0.50m Silty Clay Loam; dark brown, wet 0.50m-1.00m Silty Clay; dark brown, wet 1.00m-2.00m Silty Clay; brown, wet 2.00m-3.50m Silty Clay; brown, moist 3.50m-6.50m Silty Clay; brown, wet	1384m	West
GW307147	0.00m-0.30m Fill; bitumen/roadbase 0.30m-0.50m Silty Clay; brown, dry 0.50m-1.00m Silty Clay; dark brown, dry 1.00m-2.00m Silty Clay; brown, dry 2.00m-5.00m Silty Clay; brown, moist 5.00m-6.50m Silty Clay; grey-brown, wet	1394m	West
GW071370	0.00m-1.00m TOP SOIL 1.00m-3.00m CLAY 3.00m-6.00m SANDY LOAM 6.00m-18.00m CLAY 18.00m-26.00m GREY SANDSTONE 26.00m-29.00m BROKEN SANDSTONE 29.00m-32.00m GREY SANDSTONE	1406m	South West
GW307148	0.00m-0.30m Fill; Bitumen/roadbase 0.30m-0.50m Silty Clay Loam; dark brown, moist 0.50m-1.00m Silty Clay; brown, moist 1.00m-2.00m Silty Clay; brown, dry 2.00m-5.50m Silty Clay; grey-brown, wet	1411m	West

Groundwater No	Drillers Log	Distance	Direction
GW301431	0.00m-1.00m TOPSOIL 1.00m-19.00m RED CLAY 19.00m-23.00m BROKEN BASALT	1417m	South East
GW300651	0.00m-1.00m Top soil 1.00m-5.00m Clay 5.00m-16.00m Riven silt 16.00m-27.00m Soft sandstone	1418m	South East
GW048148	0.00m-1.00m Clay Black 1.00m-7.50m Clay 7.50m-10.35m Sandstone Pink Soft Water Supply 10.35m-10.90m Pipe Clay White	1421m	East
GW066103	0.00m-0.60m SANDY SOIL 0.60m-12.80m SANDY CLAY 12.80m-29.00m FIRM SANDSTONE SHALE	1498m	North
GW037590	0.00m-7.62m Clay 7.62m-9.14m Sand Fine Water Supply	1541m	North East
GW301092	0.00m-0.60m SOIL 0.60m-14.30m CLAY 14.30m-82.00m DARK GREY CEMENTED SANDSTONE 82.00m-82.60m HARD GREY SANDSTONE 82.60m-94.50m LIGHT GREY CEMENTED SANDSTONE	1557m	North East
GW032275	0.00m-0.60m Pug Black 0.60m-10.36m Clay 10.36m-11.27m Clay Sandy 11.27m-14.02m Clay Black Greasy 14.02m-18.59m Clay Grey 18.59m-19.50m Clay Black 19.50m-26.21m Clay Grey 26.21m-28.04m Clay 28.04m-31.69m Sand Water Supply	1559m	South
GW063679	0.00m-1.00m Fill 1.00m-7.00m Pug 7.00m-15.00m Clay 15.00m-17.00m Shale Sedimentary, Clay 17.00m-24.00m Sandstone Grey 24.00m-33.00m Sandstone Soft Layers Water Supply 33.00m-52.00m Sandstone Grey 52.00m-62.00m Sandstone Soft Layers Water Supply, Clay White Layers 62.00m-64.00m Sandstone Hard	1593m	West
GW071391	0.00m-0.30m SOIL 0.30m-2.70m CLAY 2.70m-9.40m SANDY CLAY 9.40m-62.50m SANDSTONE SHALE	1651m	North
GW072507	0.00m-0.30m Soil 0.30m-1.90m Clay 1.90m-8.80m Sandy Clay 8.80m-30.50m Sandstone Shale	1739m	North
GW046317	0.00m-3.66m Soil Sandy Clay 3.66m-23.16m Sandstone Hard 23.16m-24.99m Blue Metal Water Supply 24.99m-25.01m Sandstone	1807m	North
GW029009	0.00m-0.30m Topsoil Black 0.30m-29.26m Clay Multicoloured 29.26m-30.78m Sand Water Supply	1950m	East

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology

Johnston Street, Casino, NSW 2470

Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qa	Undifferentiated alluvial deposits; sand, silt, clay and gravel; some residual and colluvial deposits. Includes some channel, levee, lacustrine, floodplain and swamp deposits. May include some higher level Tertiary terraces				Cainozoic			1:250,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qa	Undifferentiated alluvial deposits; sand, silt, clay and gravel; some residual and colluvial deposits. Includes some channel, levee, lacustrine, floodplain and swamp deposits. May include some higher level Tertiary terraces				Cainozoic			1:250,000

Geological Structures

What are the Geological Structures onsite?

Feature	Name	Description	Map Sheet	Dataset
No features				1:250,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Dataset
No features				1:250,000

Geological Data Source : NSW Department of Industry, Resources & Energy

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Naturally Occurring Asbestos Potential

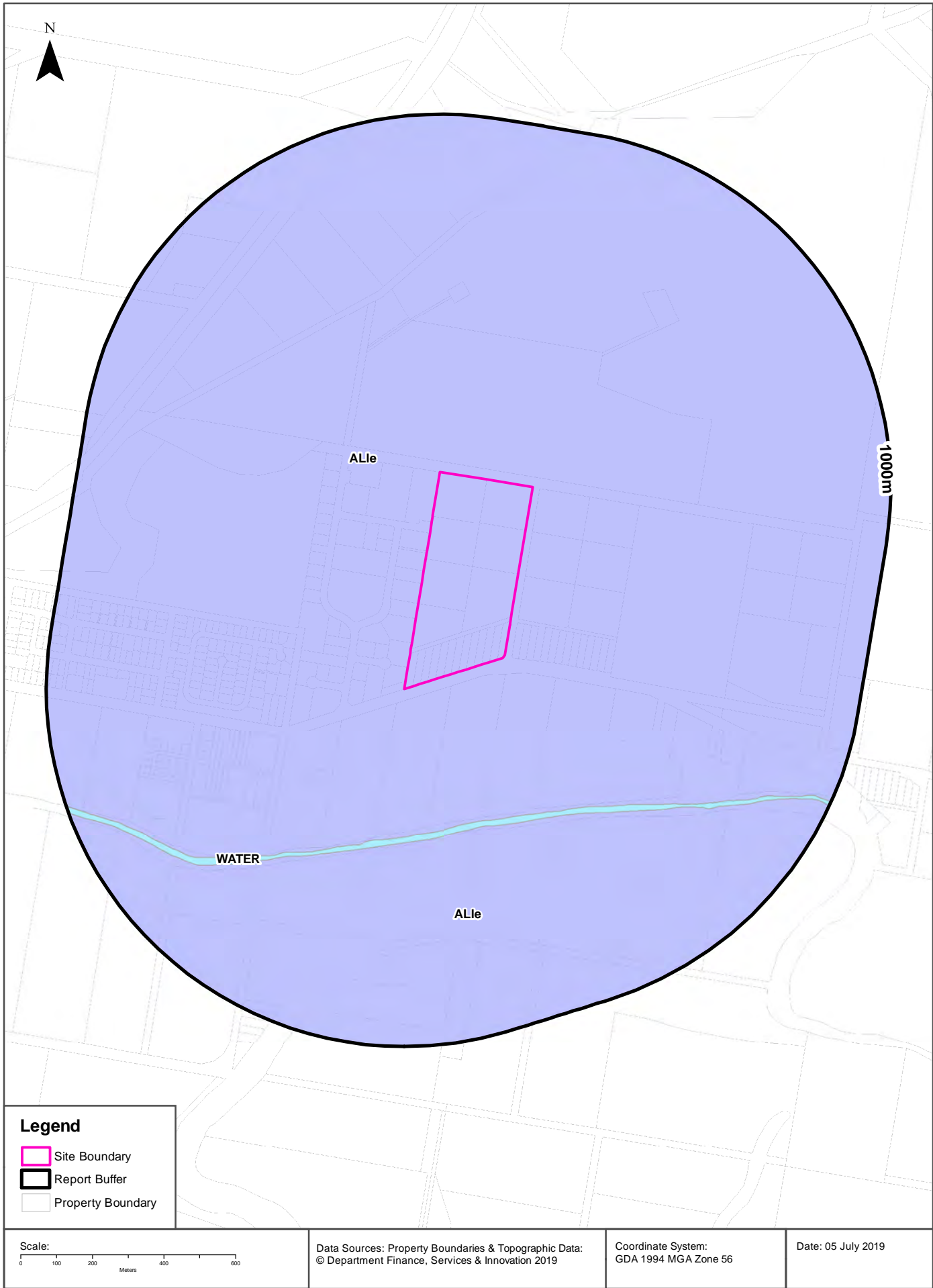
Johnston Street, Casino, NSW 2470

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Mining Subsidence District Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy



Soils

Johnston Street, Casino, NSW 2470

Soil Landscapes

What are the onsite Soil Landscapes?

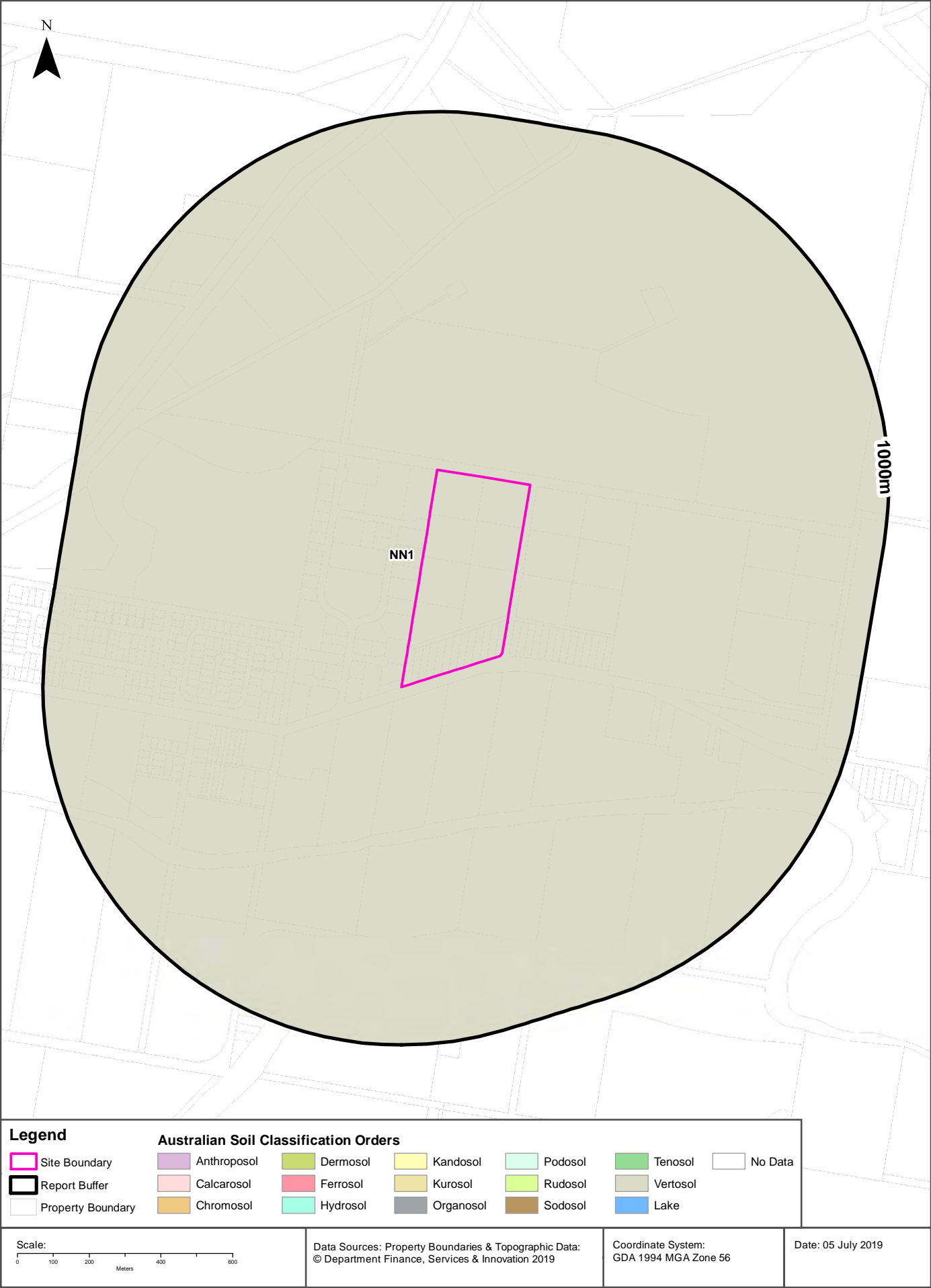
Soil Code	Name	Group	Process	Map Sheet	Scale
ALle	LEYCESTER		ALLUVIAL	Lismore & Ballina	1:100,000

What are the Soil Landscapes within the dataset buffer?

Soil Code	Name	Group	Process	Map Sheet	Scale
ALle	LEYCESTER		ALLUVIAL	Lismore & Ballina	1:100,000
WATER	WATER		WATER	Lismore & Ballina	1:100,000

Soils Landscapes Data Source : NSW Office of Environment and Heritage

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Soils

Johnston Street, Casino, NSW 2470

Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance
NN1	Vertosol	River flood-plains: relatively large and poorly drained, flat areas of deep dark cracking clays (Ug5.4) and (Ug5.16) with some melon-hole microrelief. Associated are friable yellow mottled soils (Dy5.1), and well-drained sandy levee soils (not described). As mapped, small islands of adjacent units are included.	0m

Atlas of Australian Soils Data Source: CSIRO

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Acid Sulfate Soils

Johnston Street, Casino, NSW 2470

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

Soil Class	Description	EPI Name
N/A		

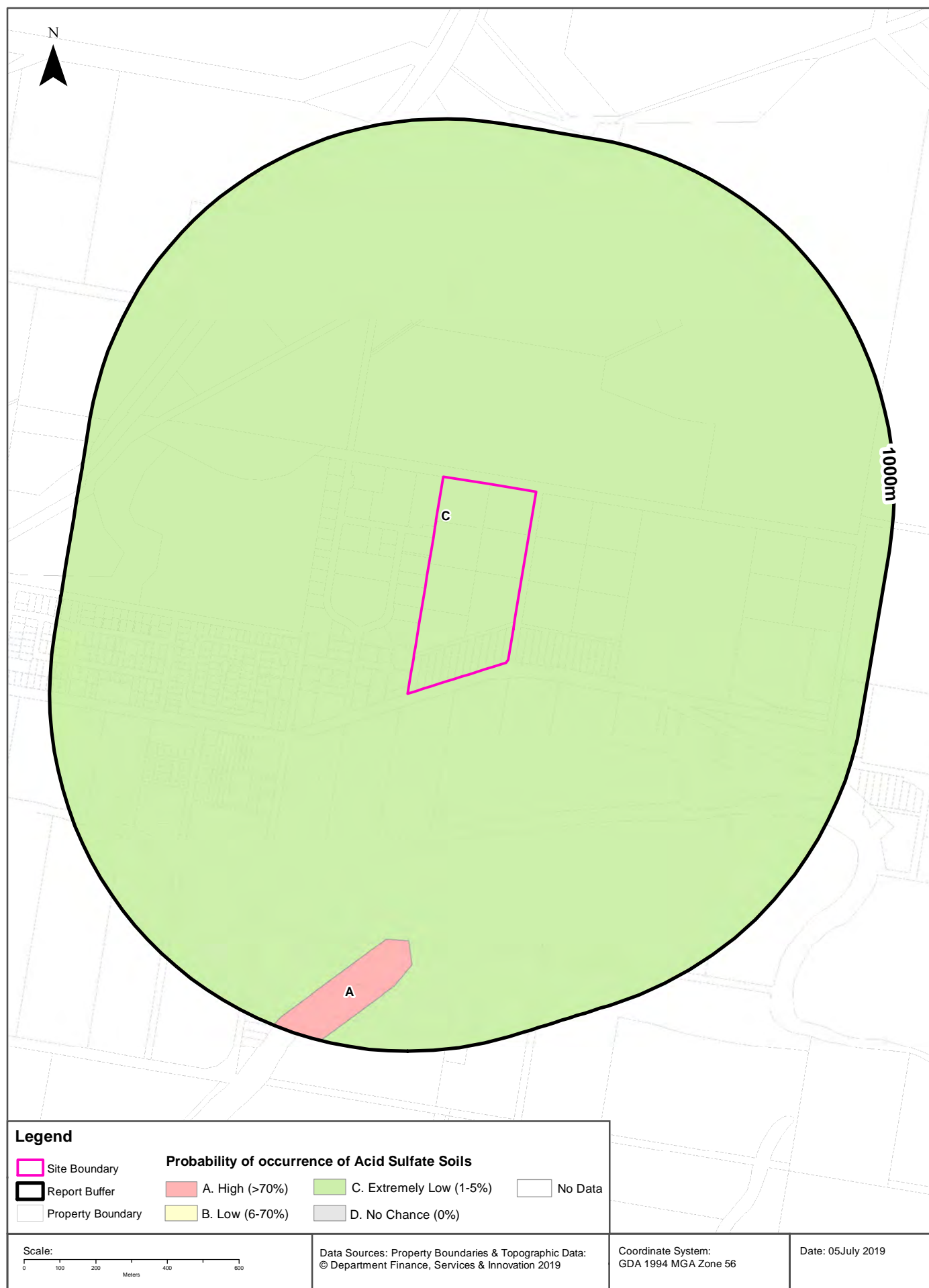
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

Acid Sulfate Data Source Accessed 23/10/2018: NSW Crown Copyright - Planning and Environment
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Atlas of Australian Acid Sulfate Soils

Johnston Street, Casino, NSW 2470



Acid Sulfate Soils

Johnston Street, Casino, NSW 2470

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m
A	High Probability of occurrence. >70% chance of occurrence.	689m

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

Johnston Street, Casino, NSW 2470

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A	N/A	N/A

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

Feature Id	Classification	Description	Distance	Direction
N/A	Outside Data Coverage			

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

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Mining Subsidence Districts

Johnston Street, Casino, NSW 2470

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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State Environmental Planning Policy

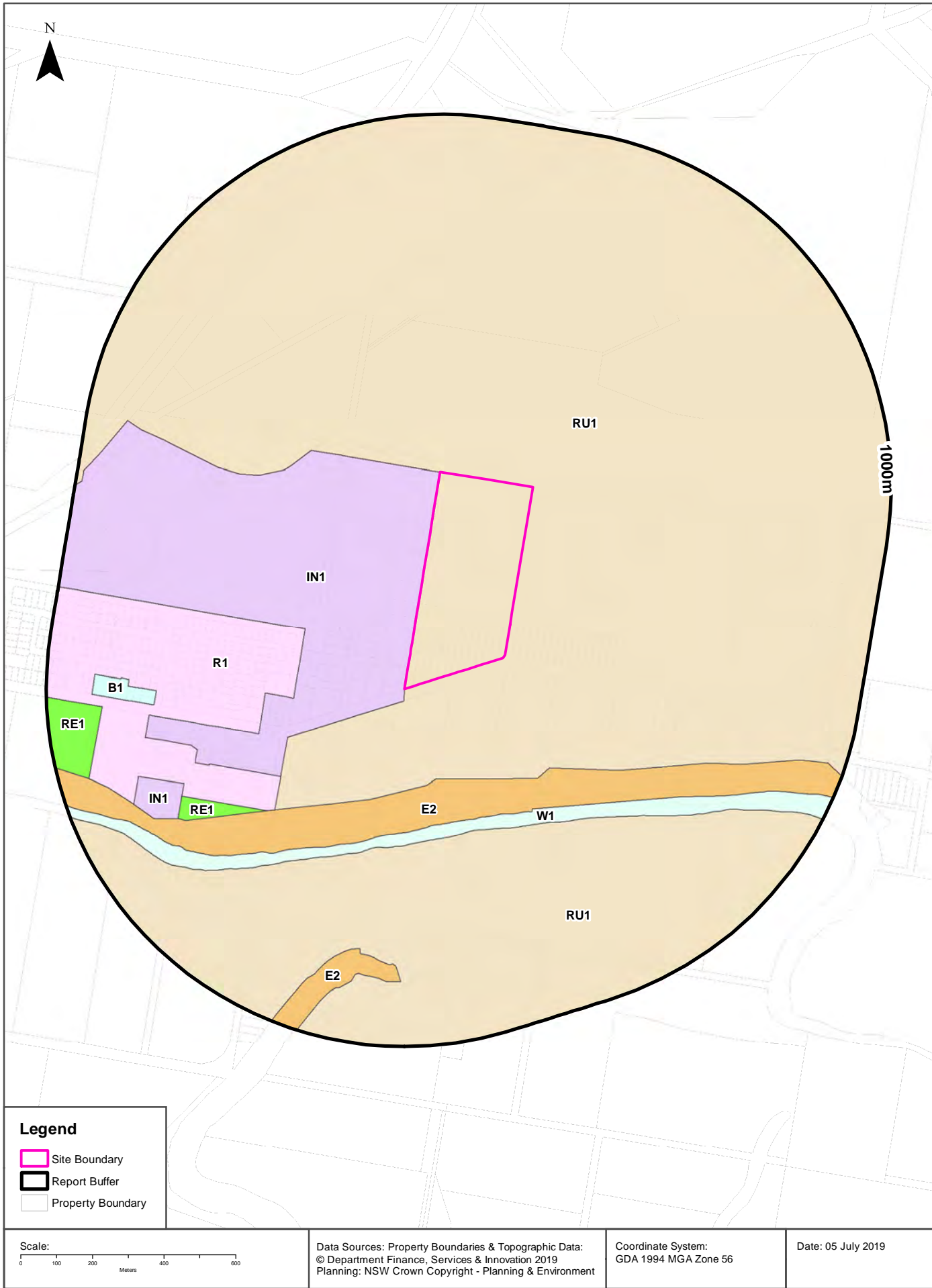
Johnston Street, Casino, NSW 2470

State Significant Precincts

What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No Records in Buffer							

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Environmental Planning Instrument

Johnston Street, Casino, NSW 2470

Land Zoning

What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU1	Primary Production		Richmond Valley Local Environmental Plan 2012	22/12/2017	22/12/2017	22/12/2017	Amendment No 9	0m	Onsite
IN1	General Industrial		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		0m	West
E2	Environmental Conservation		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		267m	South West
R1	General Residential		Richmond Valley Local Environmental Plan 2012	21/03/2014	21/03/2014	22/12/2017	Amendment No 3	301m	West
W1	Natural Waterways		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		390m	South East
RU1	Primary Production		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		429m	South
RE1	Public Recreation		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		513m	South West
IN1	General Industrial		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		670m	South West
B1	Neighbourhood Centre		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		694m	West
E2	Environmental Conservation		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		736m	South
RE1	Public Recreation		Richmond Valley Local Environmental Plan 2012	09/03/2012	09/03/2012	22/12/2017		845m	West

Environmental Planning Instrument Data Source: NSW Crown Copyright - Planning & Environment
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Heritage

Johnston Street, Casino, NSW 2470

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?

Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

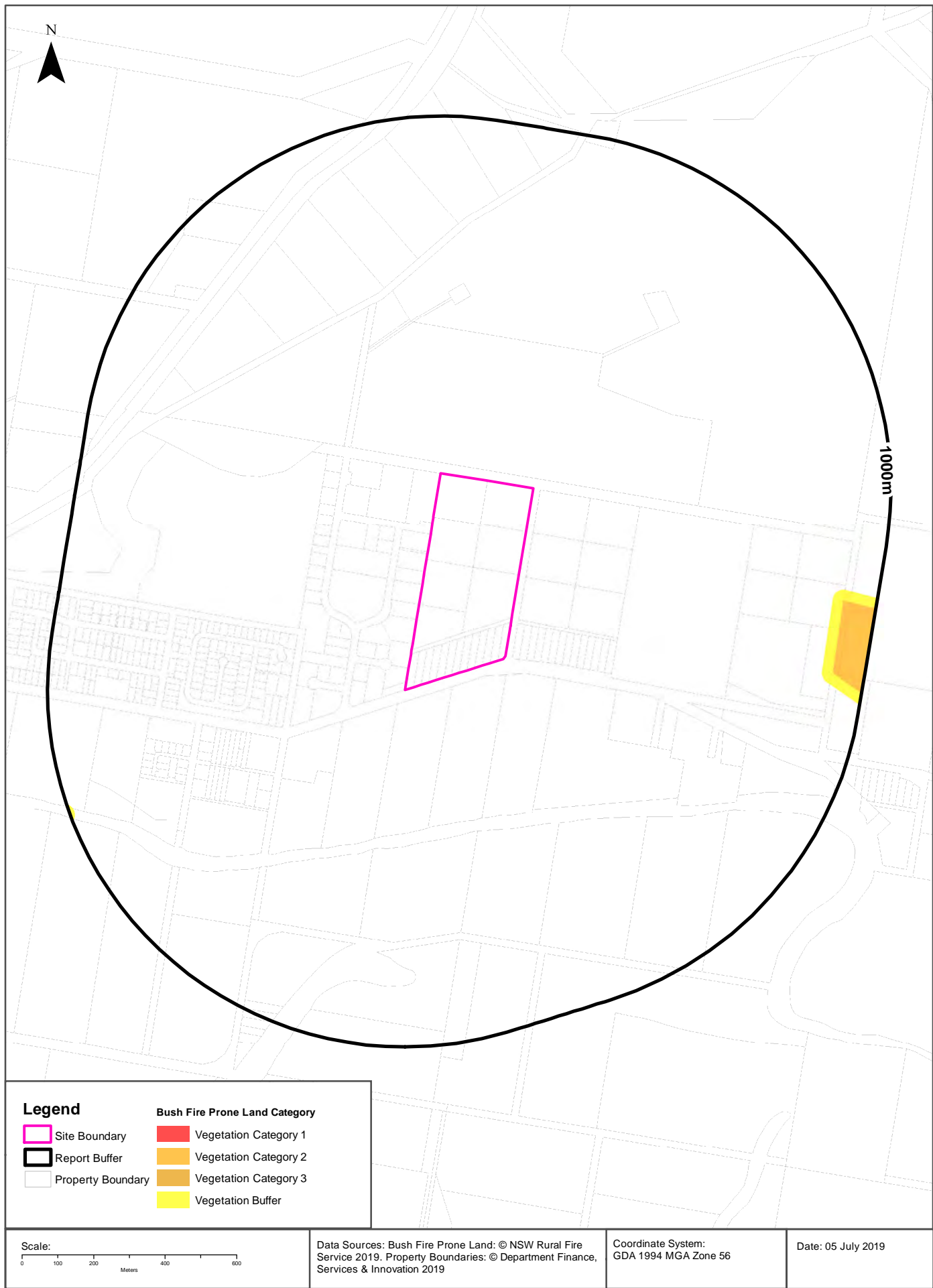
Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
N/A	No records in buffer								

Heritage Data Source: NSW Crown Copyright - Planning & Environment
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Natural Hazards

Johnston Street, Casino, NSW 2470

Bush Fire Prone Land

What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Buffer	875m	East
Vegetation Category 2	905m	East

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints

Johnston Street, Casino, NSW 2470

Vegetation - Eastern Bushland Database (North Region)

What Vegetation exists within the dataset buffer?

MapId	Veg Code	Veg Desc	NVISCode	NVISDesc	Distance	Direction
N/A	No records within buffer					

Vegetation Data Source: NSW Office of Environment and Heritage

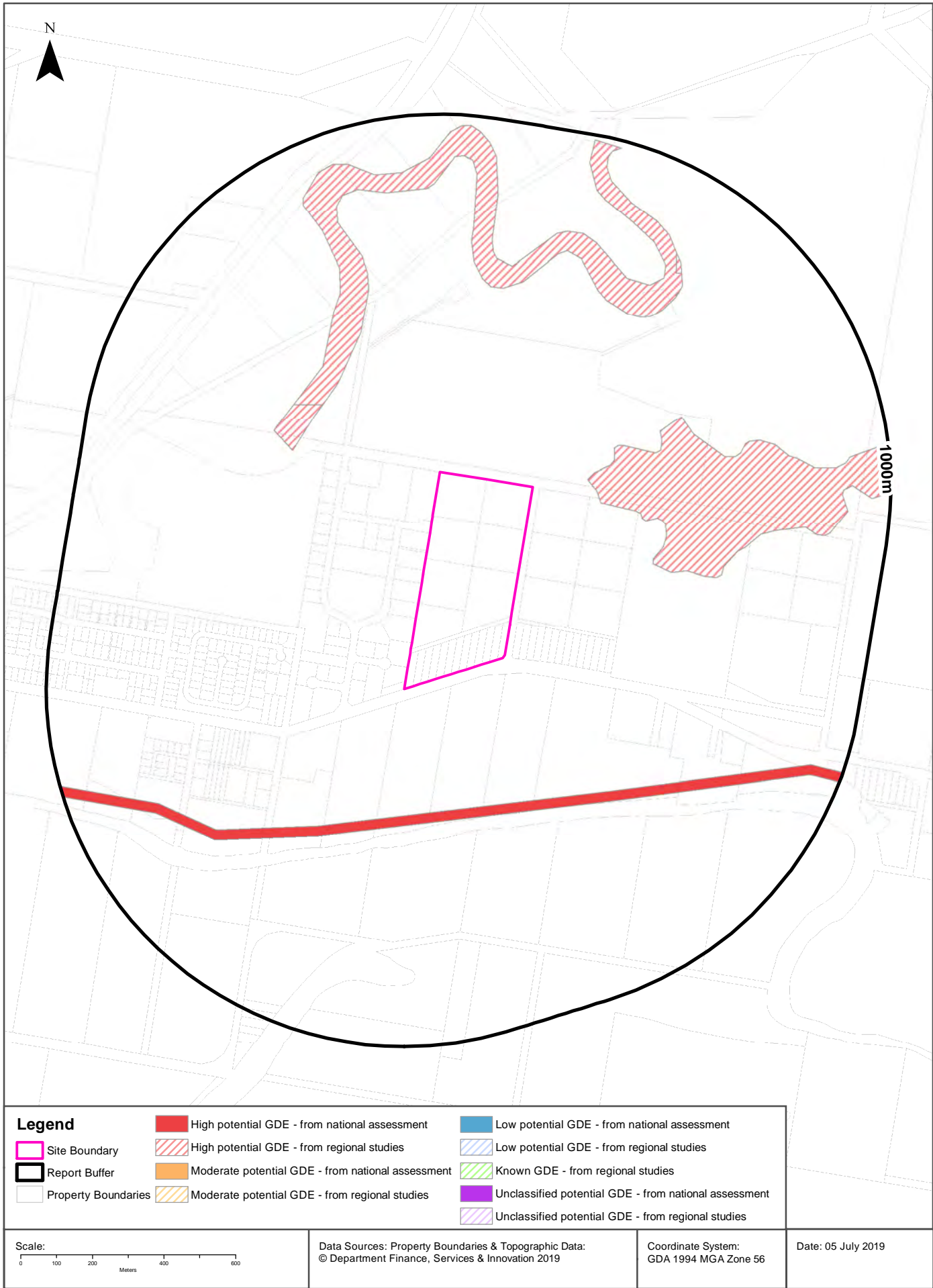
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Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Environment



Ecological Constraints

Johnston Street, Casino, NSW 2470

Groundwater Dependent Ecosystems Atlas

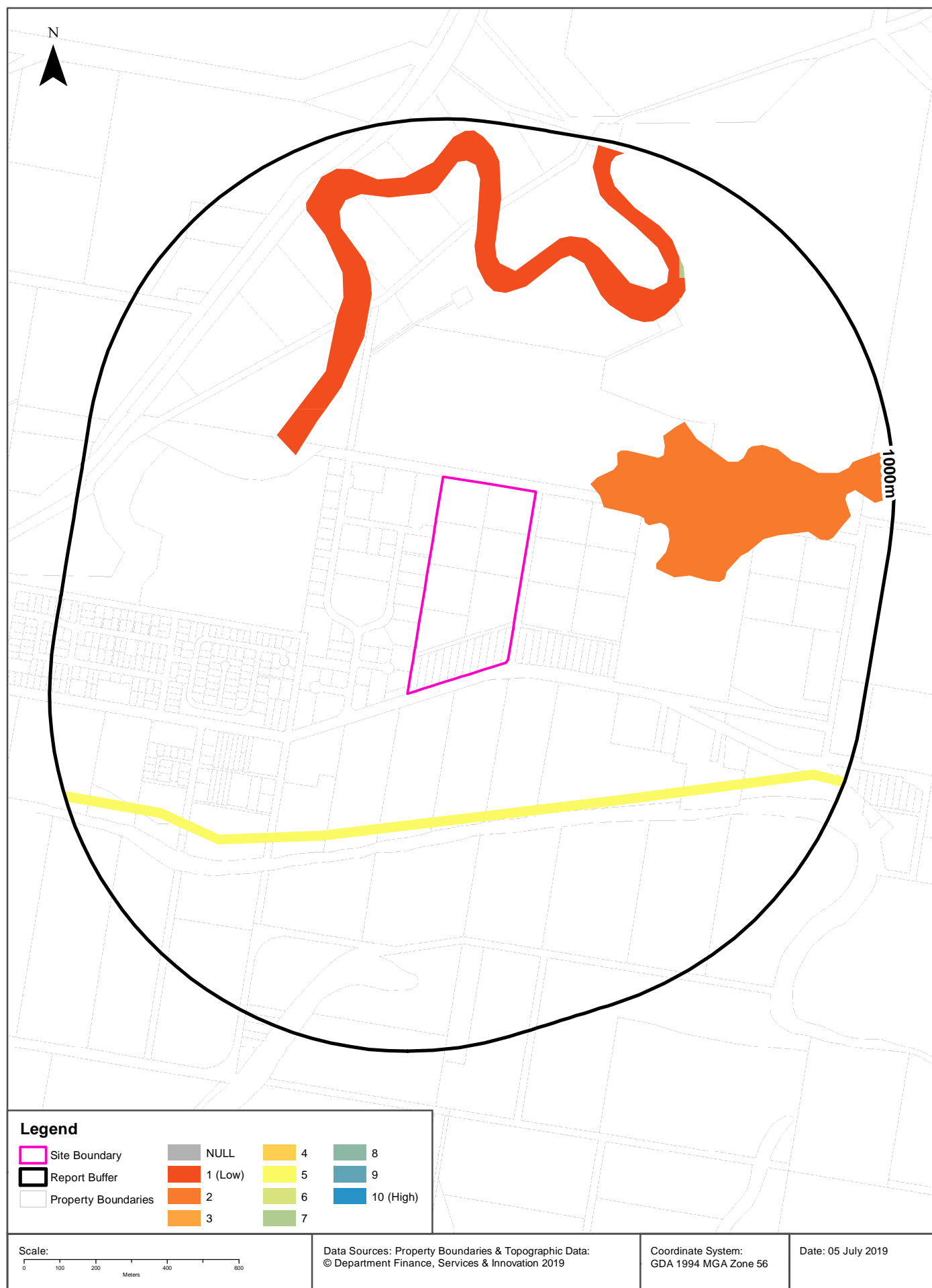
Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	High potential GDE - from regional studies	Coastal lowlands on weak sedimentary rocks, with littoral and alluvial plains.	Vegetation		153m
Aquatic	High potential GDE - from national assessment	Coastal lowlands on weak sedimentary rocks, with littoral and alluvial plains.	River		351m

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Johnston Street, Casino, NSW 2470



Ecological Constraints

Johnston Street, Casino, NSW 2470

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	2	Coastal lowlands on weak sedimentary rocks, with littoral and alluvial plains.	Vegetation		153m
Aquatic	5	Coastal lowlands on weak sedimentary rocks, with littoral and alluvial plains.	River		351m
Terrestrial	1	Coastal lowlands on weak sedimentary rocks, with littoral and alluvial plains.	Vegetation		376m
Terrestrial	6	Coastal lowlands on weak sedimentary rocks, with littoral and alluvial plains.	Vegetation		667m
Terrestrial	7	Dissected plateau margin on granite and metamorphic rocks.	Vegetation		719m

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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Ecological Constraints

Johnston Street, Casino, NSW 2470

NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Anseranas semipalmata	Magpie Goose	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ardea ibis	Cattle Egret	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Ardena grisea	Sooty Shearwater	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Ardena pacificus	Wedge-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris melanotos	Pectoral Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Calyptorhynchus lathami	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Carterornis leucotis	White-eared Monarch	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Coracina lineata	Barred Cuckoo-shrike	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Dromaius novaehollandiae	Emu	Endangered Population	Not Sensitive	Not Listed	
Animalia	Aves	Ephippiorhynchus asiaticus	Black-necked Stork	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Irediparra gallinacea	Comb-crested Jacana	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Merops ornatus	Rainbow Bee-eater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Neophema splendida	Scarlet-chested Parrot	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Numenius minutus	Little Curlew	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Oxyura australis	Blue-billed Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pandion cristatus	Eastern Osprey	Vulnerable	Category 3	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Phaethon rubricauda	Red-tailed Tropicbird	Vulnerable	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Philomachus pugnax	Ruff	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Plegadis falcinellus	Glossy Ibis	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Rostratula australis	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Thinornis rubricollis	Hooded Plover	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Turnix maculosus	Red-backed Button-quail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tyto longimembris	Eastern Grass Owl	Vulnerable	Category 3	Not Listed	
Animalia	Mammalia	Aepyprymnus rufescens	Rufous Bettong	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Macropus dorsalis	Black-striped Wallaby	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bentwing-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Mormopterus norfolkensis	Eastern Freetail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Nyctophilus bifax	Eastern Long-eared Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascogale tapoatafa	Brush-tailed Phascogale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascogale cinereus	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Thylacynus stigmatica	Red-legged Pademelon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Antaresia stimsoni	Stimson's Python	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Cacophis harriettae	White-crowned Snake	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Archidendron hendersonii	White Lace Flower	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Arthraxon hispidus	Hairy Jointgrass	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Clematis fawcettii	Northern Clematis	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Desmodium acanthocladum	Thorny Pea	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus glaucina	Slaty Red Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Gossia fragrantissima	Sweet Myrtle	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Grevillea hillianiana	White Yiel Yiel	Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Melaleuca irbyana	Weeping Paperbark	Endangered	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Rhodomyrtus psidioides	Native Guava	Critically Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Rotala tripartita		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Sophora fraseri	Brush Sophora	Vulnerable	Not Sensitive	Vulnerable	

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

Data obtained 04/07/2019

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B Statutory Declaration

**STATUTORY DECLARATION
OATHS ACT 1900, NSW, EIGHTH SCHEDULE**

I, Jeffery Mark IMESON, do solemnly and sincerely declare that
[name of declarant]

the information in the attached 'Site Evaluation Statement' marked Annexure "A" is to the best of my knowledge, and I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the *Oaths Act 1900*.

Declared at: Gowran on 15th July, 2019

[place]

[date]

[Signature]
[signature of declarant]

in the presence of an authorised witness, who states:

Jerry Linda Marshall (BBJS)

I, 181330, a NSW Justice of the Peace No.
certify the following matters concerning the making of this statutory declaration by the person who made it: [* please cross out any text that does not apply]

1. *I saw the face of the person OR ~~*I did not see the face of the person because the person was wearing a face covering, but I am satisfied that the person had a special justification for not removing the covering, and~~
2. ~~*I have known the person for at least 12 months OR~~ *I have not known the person for at least 12 months, but I have confirmed the person's identity using an identification document and the document I relied on was DRIVERS LICENSE

[Signature]
[signature of authorised witness]

15/7/2019

[date]

Annexure "A"

This and the followingpage/s is the Annexure marked "A" to the
Statutory Declaration ofsworn/ affirmed at

.....on.....

Before me

NSW Justice of the Peace No.

.....

SITE EVALUATION STATEMENT

Address of property..... *Broxner Hwy, CASINO*

Lots 1 to 12 DP 976660

Lots 14 to 20 DP 976660

Development Application No.....

Date.....

This site evaluation was completed by the property owner

Jeffrey Mark IMESON

.....comments are in *italics/hand written*

Land Use

- Chronological list of previous and present uses and zoning
- Dates and types of agricultural uses, including crop types
- Location of any cattle dips. State if off-site
- State periods that you do not know what the site was used for
- Attach additional sheets as necessary and supporting documents, statutory declarations and photographs

Cattle Grazing Past 100 years
Early 1900's to Present 2019

No other Use - No Cattle Dips

No Cropping

Permits/Licences

- Provide details of any permits, licences, approvals, certifications, etc for past land use

Nil

Historical Use of Adjacent Land

- Brief overview of historical use of adjacent land

West - Council/RVC Industrial Estate - Light Commercial Businesses
East - Grazing Land (Gills)
North - RVC owned grazing land - leased
South - Boundary - Kismore Rd/Broxner Hwy
(south opposite grazing property owned by myself)

Chemicals

- Provide a list of any chemicals used on site, including agricultural chemicals (herbicides, pesticides, dips etc)
- State purpose and dates used
- List storage, waste disposal area, spills, and possible contaminate sources – on and off site)

No herbicides used on site
Limited use of cattle drenches applied topically (Pour On)
& injected. Applied 2 to 3 times to cattle annually
as required.

No other chemical Use
No chemicals stored or disposed on site
No previous chemical spillage or contamination on site

Tanks

- Provide details and locations of any current and former tanks – underground /above ground

No tanks of any kind previously or currently on site.

Cattle Drink from a cement trough connected to town water.

Manufacturing/Industrial

- Description of any manufacturing/industrial processes on the site, including locations and dates

Nil past or present

Asbestos

- Provide details of any asbestos used in past or present buildings

Nil. No past or present buildings on site for past 100 years.

Water Use

- Describe any usage of ground/surface water and bore/pump locations

All stock water directly from RVC council town drinking water.
No other water storage.

Sewerage Disposal

- Describe any sewerage disposal area

Nil No sewerage or septic
pastor present on site.

Indicators of contamination

- Describe any areas of soil discolouration, bare patches, poor plant growth or stress, odours, complaints from neighbours etc

Nil

Any other pertinent information

Land held by my family for over 100 years
Land only ever used to graze cattle
and occasionally horses.
No building ever constructed on land.
No chemicals applied directly to land.

C Site Photos

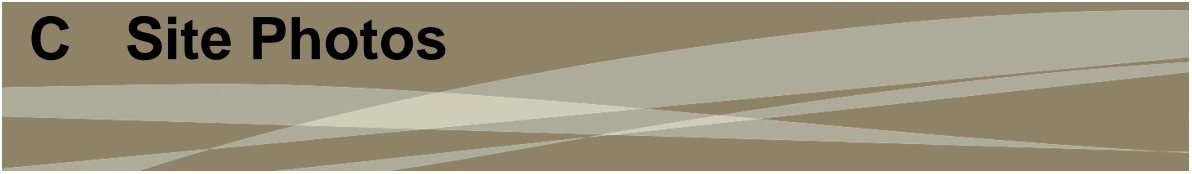




Photo A Looking Southwest



Photo B Looking East towards neighbouring Dwelling



Photo C Adjoining Industrial Use to the west



Photo D Adjoining Industrial Use to the west