



Preliminary Site Investigation

Lots 1 and 2 in DP749831, Mid-Western
Highway, Goolgowi, NSW

Prepared for: Advitech Environmental Pty Ltd
EP0462 18 February 2017



Quality
ISO 9001
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ISO 14001
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Preliminary Site Investigation

Lots 1 and 2 in DP749831, Mid-Western Highway, Goolgowi, NSW

Advitech Environmental Pty Ltd
7 Riverside Drive,
Mayfield West, NSW, 2304

18 February 2017

Our Ref: EP0462

LIMITATIONS

This Preliminary Site Investigation was conducted on the behalf of Advitech Environmental Pty Ltd for the purpose/s stated in **Section 1**.

EP Risk has prepared this document in good faith, but is unable to provide certification outside of areas over which EP Risk had some control or were reasonably able to check. The report also relies upon information provided by third parties. EP Risk has undertaken all practical steps to confirm the reliability of the information provided by third parties and do not accept any liability for false or misleading information provided by these parties.

It is not possible in a Preliminary Site Investigation to present all data, which could be of interest to all readers of this report. Readers are referred to any referenced investigation reports for further data.

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QUALITY CONTROL

Version	Author	Date	Reviewer	Date	Quality Review	Date
v1	N McGuire	17.02.17	P Simpson	17.02.17	P Simpson	17.02.17

DOCUMENT CONTROL

Version	Date	Reference	Submitted to
v1	18.02.17	EP0462 Advitech_Goolgowi_PSI_v1	Advitech Environmental Pty Ltd

Executive Summary

This report presents the findings of a Preliminary Site Investigation ('PSI') undertaken at a property located at lots 1 and 2 in DP 749831, Mid-Western Highway, Goolgowi, NSW ('the Site'). The Site comprises of a large vacant land approximately 625 ha in size. The Site is proposed to be redeveloped into a chicken farm ('Proposed Development'). Therefore, the PSI was commissioned by Advitech Environmental Pty Ltd ('Advitech') to assess the potential for, or existence of contamination from historical activities undertaken at the Site.

Site condition and Surrounding Environment

The site is an operational agricultural farm, currently being used to grow wheat and oats. A summary of the main features of the site are as follows:

- Two residential dwellings each with their own effluent disposal system.
- Agricultural fields sowed with wheat and oat crops.
- Sheep yards.
- Machinery and shearing shed.
- Irrigation channel that runs through the centre of the property and associated pumps and irrigation pipework.
- Waste stockpiles including empty packaged herbicide containers.
- Several dams.

Summary of Site History Review

In summary, the history of the Site is as follows:

- The Site has been previously utilised as agricultural land since prior to 1958.
- Between 2005 and 2015 the site was used to grow cotton and had an environment protection licence ('EPL') for the application of herbicides.
- The current tenant has leased the Site since 2014 and uses it to grow wheat and oats.

Potentially Contaminating Activities

The potentially contaminating activities identified in the site history review include the following:

- Agricultural land use including the application of herbicides and pesticides.
- Operation of several on-site wastewater treatment systems and effluent disposal areas.
- Waste Stockpiling.
- Hazardous materials in buildings.

Potential human and ecological receptors

Potential human and ecological receptors are considered to be:

- Workers and occupants at the Site and surrounding agricultural land.
- Future construction workers.
- Recreational users of Wah Wah Creek
- Current and future terrestrial and aquatic flora and fauna at the Site and Wah Wah Creek.
- Users of licensed groundwater bores in the vicinity of the Site.

Conclusions

Based on the Site history review, the Site is considered to contain a moderate to high risk of contamination associated with historical agricultural land use.

Therefore, in accordance with the decision process for land use changes outlined in State Environmental Protection Plan No. 55 ('SEPP 55'), a Detailed Site Investigation ('DSI') is required to assess the nature and extent of contamination (if any) present at the Site.

After completion of the DSI and any subsequent remedial activities (if required), EP Risk considers that the Site can be made suitable for the Proposed Development.

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1 Introduction

1.1 Overview

EP Risk Management Pty Ltd ('EP Risk') was engaged by Advitech Environmental Pty Ltd ('Advitech') to undertake a Preliminary Site Investigation ('PSI') at a property located at Lots 1 and 2 in DP 749831 Mid-Western Highway, Goolgowi, NSW ('the Site'). The Site has formerly been used for agricultural purposes.

The Site is proposed to be redeveloped into a chicken farm ('Proposed Development') and a PSI is required to satisfy the decision process for land use changes outlined in State Environmental Planning Policy No. 55 – Remediation of Land ('SEPP 55').

1.2 Objectives and Scope

It is considered that the specific objective of the PSI is to determine the risk of contamination (if any) from historical activities undertaken at the Site in relation to the proposed land use as a chicken farm.

The scope of work completed to achieve those objectives included:

- Conduct a Site visit to observe onsite and offsite conditions.
- Undertake a desktop review of available historical and publicly available information.
- Prepare a PSI report in accordance with the OEH (2011) Contaminated Sites, Guidelines for Consultants reporting on Contaminated Sites.

1.3 Site Identification

The Site Identification details are presented in **Table 1**.

Table 1 – Site Identification	
Item	Description
Site Address	Mid-Western Highway, Goolgowi, NSW (Figure 1)
Legal Description	Lots 1 and 2 in DP749831, Mid-Western Highway, Goolgowi, NSW (Figure 1).
Approximate Site Area	625 ha ¹
Municipality	Carrathool Shire Council ('Council')
Site Zoning	The Carrathool Local Environment Plan 2012 ('LEP') identifies the land as RU1 Primary Production

¹ Based upon the Development Plans attached as **Appendix A**.

2 Methodology

The PSI was conducted in general accordance with the following:

- Australia and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand (2000), Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 ('ANZECC 2000').
- Department of Environment and Conservation (NSW) (2005) Guidelines for Assessing Former Orchards and Market Gardens ('DEC 2005').
- Department of Environment and Conservation (2007), Guidelines for the Assessment and Management of Groundwater Contamination ('DEC 2007').
- Department of Urban Affairs and Planning (1998) Managing Land Contamination, Planning Guidelines - State Environmental Planning Policy No. 55 - Remediation of Land ('SEPP 55').
- National Environment Protection Council (2013), National Environment Protection (Assessment of Site Contamination) Measure, 1999 ('ASC NEPM 2013').
- Office of Environment and Heritage (2011) Contaminated Sites, Guidelines for Consultants reporting on Contaminated Sites ('OEH 2011').

3 Site Condition and Surrounding Environment

The majority of information provided in the following sections was obtained from Lotsearch Environmental Risk and Planning Report (2017). A copy of the Lotsearch (2017) report is attached as **Appendix B**.

3.1 Current Land Use and Layout

The Site currently comprises of a large double lot with two residential dwellings and associated farming infrastructure. EP Risk undertook a Site inspection on 8 February 2017 comprising of a Site walkover and visual assessment. The general Site features and infrastructure observed during the inspection are presented in **Figure 2**. Infrastructure observed during the Site inspection is summarised below with the Site photos attached as **Appendix C**.

- Sheep yard (**Plate 1**).
- Machinery and shearing shed (**Plates 2, 3 and 4**).
- External toilet, septic tank and effluent disposal area for machinery and shearing shed (**Plate 5**).
- Main house with garage, septic tank and effluent disposal area (**Plate 6 and Plate 7**).
- Second house with septic tank and effluent disposal area (**Plate 8 and Plate 9**).
- Stockpiles of anthropogenic waste near the main house, one with potential ACM fragments (**Plate 10**).
- A number of anthropogenic waste stockpiles (**Plates 10 to 18**). The approximate location of the stockpiles is shown on **Figure 2**.
- Irrigation pump and above ground storage tank near the return irrigation dam (**Plate 19**).
- Irrigation channel (**Plate 20**).
- Former sheep yards (**Plate 21**).
- Five dams located across the Site (**Plate 22**).
- Agricultural fields (**Plate 23**).
- Sheep loading ramp in the north-western corner of the Site (**Plate 24**).

3.2 Proposed Land Use

The proposed future land use at the Site consists of a chicken farm ('Proposed Development'). A copy of the plans of the Proposed Development are attached as **Appendix A**.

3.3 Surrounding Land Use

The Site is located on the Mid-western highway around 50 km north-west of Griffith and surrounded by rural land. As of the 27 January 2017, surrounding land use comprised of the following:

To the North

- Rural properties

To the South

- Rural properties
- Wah Wah Creek

To the East

- Rural properties

To the West

- Mid-western highway and rural properties beyond.

3.4 Topography and Drainage

The general topography of the Site and surrounding area is relatively flat with an approximate elevation across the Site of 100 meters above the Australian Height Datum ('mAHD').

3.5 Geology

Based on the information contained in the NSW Department of Industry, Resources and Energy 1: 250,000 datasets (Lotsearch, 2017), the Site lies on floodplains of black and red clayey silt, sand and gravel.

3.6 Soil Landscapes

There is currently no data on the soil landscapes in this region, however there are no reported naturally occurring asbestos potential identified (Lotsearch, 2017).

3.7 Hydrogeology

Two licensed groundwater bores were identified at the Site and one groundwater bore was identified 1.8km to the south of the Site, all of which are used for monitoring purposes. The depths of bores ranged from 10 to 25 meters below ground surface ('mBGS'). Standing water levels ('SWLs') for all the bores were not recorded. A copy of the groundwater bore reports are attached as **Appendix D**.

3.8 Acid Sulfate Soils

There are no Acid sulfate soils classes outlined in the Carrathool LEP 2012.

3.9 Mining Subsidence

No mining subsidence districts have been identified within 1 km of the Site.

3.10 Coastal Protection Act 1979

The land is not subject to the operation of sections 38 or 39 of the Coastal Protection Act 1979.

3.11 Biodiversity Certified Land

The land is not identified as biodiversity certified land within the meaning of part 7AA of the Threatened Species Conservation Act 1995.

3.12 Biobanking Agreement

Under Part 7A of the Threatened Species Conservation Act 1995, the land is not the subject of a biobanking agreement.

3.13 Contaminated Land

The Contaminated Land Management Act 1979 is not applicable to the land.

3.14 State Environmental Planning Policy Protected Areas

No State Environmental Planning Policy protected area has been identified at the Site or within 1 km of the Site.

3.15 State Environmental Planning Policy Strategic Land Use Areas

No State Environmental Planning Policy strategic land use areas have been identified at the Site or within 1 km of the Site.

3.16 Heritage Items

No heritage Items have been identified at the site or within 1 km of the Site.

3.17 Contaminated Sites Notified to the NSW EPA

As of 27 January 2017, the Site is not on the New South Wales Environment Protection Authority ('NSW EPA') database for Contaminated Sites notified to the NSW EPA in accordance with the Contaminated Land Management Act, 1997. There are no records of Notifications or Notices within 1 km of the Site.

3.18 Former Gasworks

There are no records of the presence of any former gasworks facilities within 1 km of the Site.

3.19 Waste Management Facilities and UPSS Sensitive Zones

There are no records of waste management facilities within 1 km of the Site. The Site is within an underground petroleum storage system ('UPSS') regulated environmentally sensitive zone.

3.20 Licensed Activities Under the POEO Act 1997

A summary of the licensed activities under the POEO Act 1997 being undertaken within 1 km of the Site is provided in **Table 2**.

Table 2 – Licensed Activities Under the POEO Act 1997				
EPL	Organisation	Activity	Date of Operation	Distance from Site
4561	Murrumbidgee Irrigation Limited	Irrigated Agriculture	19/10/2000 - Present ²	On-Site

A summary of information provided within the annual returns submitted since 2005 has been provided in **Table 3**. The EPL (latest version) is attached as **Appendix E**.

² Obtained from the POEO Public Register on the NSW EPA website.

Table 3 – Compliance Summary for EPL4561			
Year	Non-Compliance	Description	EPA Actions
2005	Yes	Missing Data	Appropriate Actions Taken by Licensee
		Data Not to Standard	Appropriate Actions Taken by Licensee
		No Sampling when Floodway was being used	Appropriate Actions Taken by Licensee
2006	Yes	Data Loss	Appropriate Actions Taken by Licensee
2007	Yes	Data Loss	Appropriate Actions Taken by Licensee
2008	Yes	Logger Failure, Data Missing	Appropriate Actions Taken by Licensee
2009	No	-	-
2010	No	-	-
2011	No	-	-
2012	Yes	Monitoring equipment failed, causing sampling to be missed on various occasions. Staff failed to identify issue.	Appropriate Actions Taken by Licensee
2013	Yes	Failure to notify EPA by email within 24 hours of notification level detections.	Administrative non-compliance – Licensee advised of required action
2014	No	-	-
2015	No	-	-

On the basis of a review of the information provided in **Table 3**, there have been no exceedances of the adopted criteria identified in the annual returns submitted to the NSW EPA. The majority of non-conformances related to equipment failure.

3.21 Delicensed Activities Still Regulated by the NSW EPA

There are no records of delicensed activities within 1 km of the site.

3.22 Former Licensed Activities under the POEO Act, now Surrendered

Former licensed activities under the POEO Act, now surrendered identified within 1 km of the Site are provided in **Table 4**.

Table 4 – Former licensed activities under the POEO Act, now surrendered				
Licence No.	Organisation	Location	Activity	Distance from Site
4653	Luhrmann Environment Management Pty Ltd	Waterways throughout NSW	Application of herbicides	On-Site
4838	Robert Orchard	Waterways throughout NSW	Application of herbicides	On-Site
6630	Sydney Weed and Pest Management Pty Ltd	Waterways throughout NSW	Application of herbicides	On-Site

3.23 Sensitive Receptors

Sensitive receptors identified at and in the vicinity of the Site are considered to be:

Current Sensitive Receptors

- Workers and residents at the Site.
- Workers and residents at neighbouring properties.
- Users of licensed groundwater bores in the vicinity of the Site.
- Recreational users of Wah Wah Creek.
- Livestock at the Site
- Current terrestrial flora and fauna at the Site.
- Current aquatic flora and fauna at the Site and Wah Wah Creek.

Future Sensitive Receptors – Proposed Commercial Industrial Land Use

In addition to the above sensitive receptors, the following apply:

- Future construction workers involved in redevelopment of the Site to a chicken farm.

4 Site History

4.1 Sources of Information

The Site history sources utilised during the review include:

- Historical aerial photography from the years: 1958, 1969, 1977, 1988, 1996, 2003 and 2014.
- Site lessee interview.
- Site inspection.

4.2 Review of Historical Aerial Photos

Aerial photographs of the Site for the years: 1958, 1969, 1977, 1988, 1996, 2003 and 2014 were reviewed, and a summary is provided in **Table 5**. Copies of photos are contained within the Lotsearch report in **Appendix B**.

Table 5 – Historical Aerial Photograph Review	
Year	Description
1958	Site: The site is vacant and has been predominantly cleared. Remnant vegetation was visible in the south-west corner and central portions. No residential dwellings were present and a number of access tracks are visible. Surrounds: The surrounding sites are vacant and contain little to no vegetation.
1969	Site: The site remains unchanged. Surrounds: The surrounding land remains unchanged.
1977	Site: Crops are visible in the fields. Surrounds: Crops are visible in properties to the north and south of the Site.
1988	Site: Continued agricultural land use is visible. Surrounds: The surrounding land remains unchanged.
1996	Site: The site use remains unchanged and the current houses, sheds and dams are visible. Surrounds: The surrounding land use remains unchanged.
2003	Site: The site use remains unchanged. Surrounds: The surrounding land remains unchanged.
2014	Site: Land cleared for Agricultural use in the North East third of the property. Surrounds: More land cleared for agricultural purposes in the South.

The historical aerial photographic review indicates the following:

- The Site has been used for agricultural purposes for at least 60 years (since prior to 1958).
- The surrounding lands have also been used for agriculture for the same timeframe.

4.3 Site Owner Interview

EP Risk personnel undertook an interview with the current tenant on 8 February 2017. The points of interest raised in the interview are as follows:

- The current tenant has been leasing the property since 2014 and has a five-year lease.
- All Chemicals (herbicides, fuel etc.) are stored off site and brought on site when needed.
- Wheat and oats are currently grown on the property.
- Sheep and cattle are brought in periodically after harvest to clear the remaining crops and help fertilise the soil for the next crop planting.
- All dead livestock are burnt on site and not buried.
- The previous owner of the Site operated a cotton farm up until 2014.
- The Site has also historically been used to farm sheep.

5 Potential Contaminating Activities

Based on an inspection of the Site, an interview with the current lessee and review of historical records, the Site has been utilised for agricultural purposes for at least 60 years. The agricultural land use involved the application of herbicides and pesticides, construction of buildings with potential hazardous materials and application of waste stockpiles, which may have resulted in the potential for contamination to soil, sediments, surface water and groundwater.

6 Contaminants of Potential Concern

Based upon a review of historical information and the Site inspection the contaminants of potential concern ('COPC') are presented in **Table 6**.

Table 6 – Contaminants of Potential Concern			
Historical Activity	Portion of Site	Evidence	COPC
Agricultural land use – application of herbicides and pesticides to fields	Entire portion	Site history and Site Inspection	Heavy metals (arsenic ('As'), cadmium ('Cd'), chromium ('Cr'), copper ('Cu'), lead ('Pb'), nickel ('Ni'), mercury ('Hg') and zinc ('Zn')), Organochlorine pesticides ('OCPs') and organophosphate pesticides ('OPPs').
Agricultural land use – insecticide and parasite spray to livestock	Sheep yards	Site inspection, interview and history review.	Heavy metals, OCPs and OPPs.
Operation of on-site effluent disposal systems	Residential area	Site inspection	Faecal coliforms and E. coli.
Operation of a machinery shed	Residential area	Site inspection, interview and history review.	Total recoverable hydrocarbons ('TRH'), benzene, toluene, ethylbenzene and xylene ('BTEX'), Polycyclic Aromatic Hydrocarbons ('PAH'), heavy metals, phenols, volatile organic hydrocarbons ('VOCs'), asbestos, OCPs and OPPs.
Waste Stockpiles	Various locations	Site inspection	TRH, BTEX, PAH, heavy metals, polychlorinated biphenyls ('PCBs'), OCPs, OPPs and asbestos,
Building structures – hazardous materials	Residential area	Site inspection	Asbestos

7 Preliminary Conceptual Site Model

A preliminary conceptual site model ('CSM') has been developed based upon the information provided in sections of this report.

7.1 Potentially Contaminating Activities

A number of potentially contaminating activities have been undertaken at the Site as follows:

- Agricultural land use including pesticide and herbicide use.
- Waste Stockpiling.
- Operation of on-site effluent disposal systems.
- Operation of a machinery shed.
- Hazardous materials in buildings.

7.2 Potentially Affected Media

The potential affected media at the Site is considered to be soil, sediment, surface water and groundwater.

7.3 Potential Human and Ecological Receptors

Sensitive receptors identified at and in the vicinity of the Site are considered to be:

Current Sensitive Receptors

- Workers and residents at the Site.
- Workers and residents at neighbouring properties.
- Users of licensed groundwater bores in the vicinity of the Site.
- Recreational users of Wah Wah Creek.
- Livestock at the Site
- Current terrestrial flora and fauna at the Site.
- Current aquatic flora and fauna at the Site and Wah Wah Creek.

Future Sensitive Receptors – Proposed Commercial Industrial Land Use

In addition to the above sensitive receptors, the following apply:

- Future construction workers involved in redevelopment of the Site to a chicken farm.

7.4 Potential and Complete Exposure Pathways

An analysis of the potential exposure pathways between the COPC and the identified human and ecological receptors are presented in **Table 7** below.

Table 7 – Potential Exposure Pathways									
Sources	Media	Release Mechanism	Pathway	Workers and residents at the Site	Workers and residents at surrounding properties	Future construction workers	Aquatic flora and fauna in the irrigation channels, dams and Wah Wah Creek	Terrestrial flora and fauna at the Site.	Users of licensed groundwater bores in the vicinity of the Site.
Agricultural land use	Soil	Fugitive dust	Air – ingestion / inhalation	Yes	Yes	Yes	No	No	No
		Direct contact	Dermal contact	Yes	No	Yes	No	No	No
			Ingestion	Yes	No	Yes	No	No	No
		Soil vapour	Vapour migration	No	No	No	No	Yes	No
	Sediment	Direct contact	Dermal contact	Yes	No	Yes	No	No	No
			Ingestion	Yes	No	Yes	No	No	No
		Bioaccumulation	Uptake by aquatic flora and fauna	No	No	No	Yes	Yes	No
	Surface water	Direct Contact	Dermal contact	Yes	Yes	Yes	No	No	No
			Ingestion	Yes	Yes	Yes	No	No	No
		Bioaccumulation	Uptake by flora and fauna	No	No	No	Yes	Yes	No
	Groundwater	Direct contact	Dermal contact	No	No	No	No	No	Yes
			Ingestion	No	No	No	No	No	Yes
		Bioaccumulation	Uptake by terrestrial flora and fauna	No	No	No	Yes	Yes	No

Notes:

Yes Current potential
 Yes Future potential

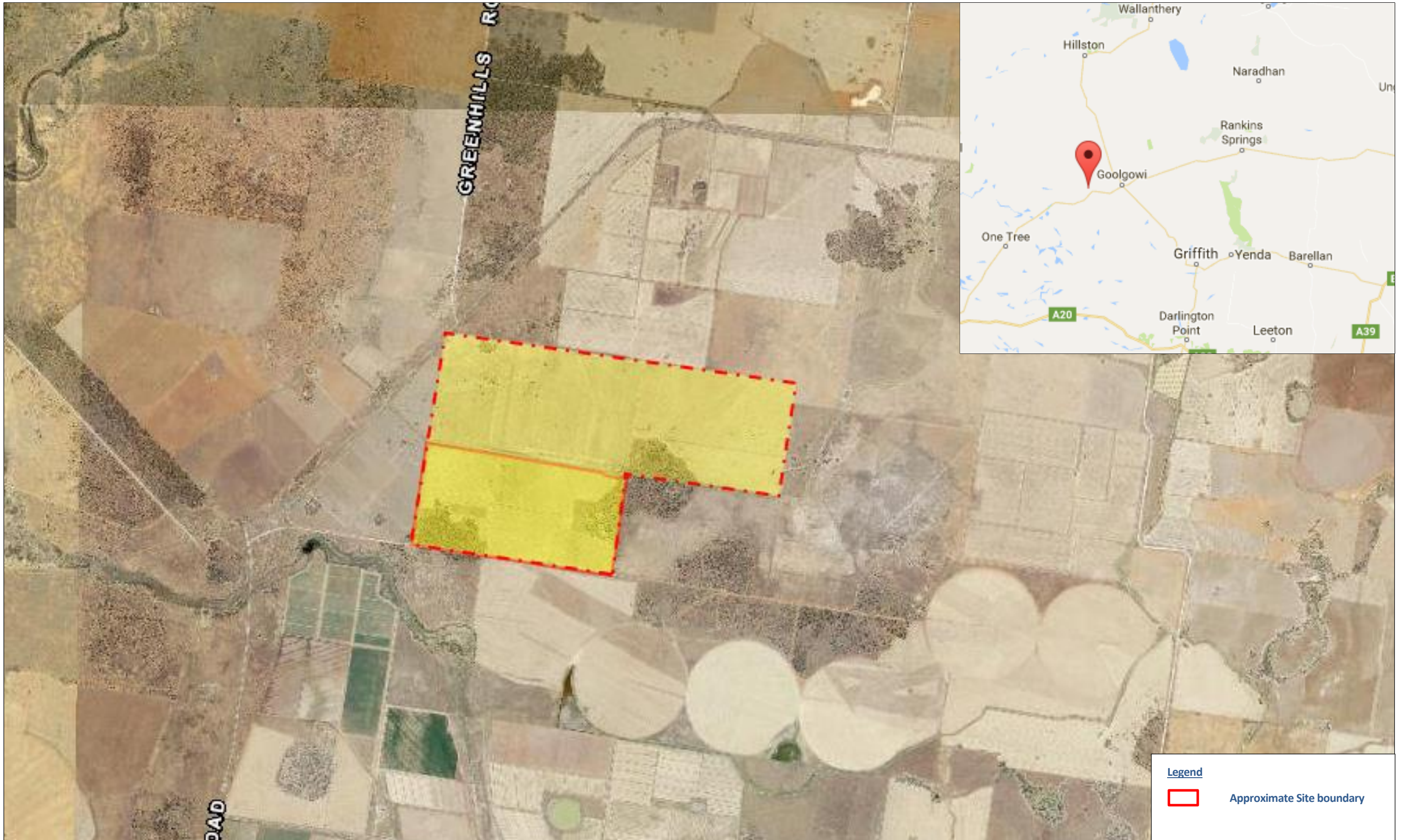
8 Conclusions and Recommendations

This report presents the findings of a PSI undertaken at the Site, located at Lots 1 and 2 in DP749831, Mid-Western Highway, Goolgowi, NSW. The Site comprises of a two lots approximately 625 ha in size currently utilised for agricultural land use. It is proposed that the Site is to be redeveloped into a chicken farm. The PSI was commissioned by Advitech in accordance with the decision process for land use changes outlined in SEPP 55.

The site history review indicates that the Site has been previously utilised for agricultural land use. The potentially contaminating activities associated with agricultural land use identified in the site history review and site inspection include the application of pesticides and herbicides to land, waste stockpiling, operation of on-site effluent disposal systems, operation of a machinery shed and hazardous materials in buildings.

Based on the site history review, the Site is considered to contain a moderate to high risk of contamination associated with historical use. Therefore, in accordance with the decision process for land use changes outlined in SEPP 55, it is recommended that additional investigation in the form a DSI be undertaken to appropriately characterise the nature and extent of contamination (if any) present at the Site. After completion of the DSI, and any subsequent remedial activities (if required), EP Risk considers that the Site can be made suitable for the Proposed Development.

Figures



Legend

Approximate Site boundary



Figure 1 – Site Location

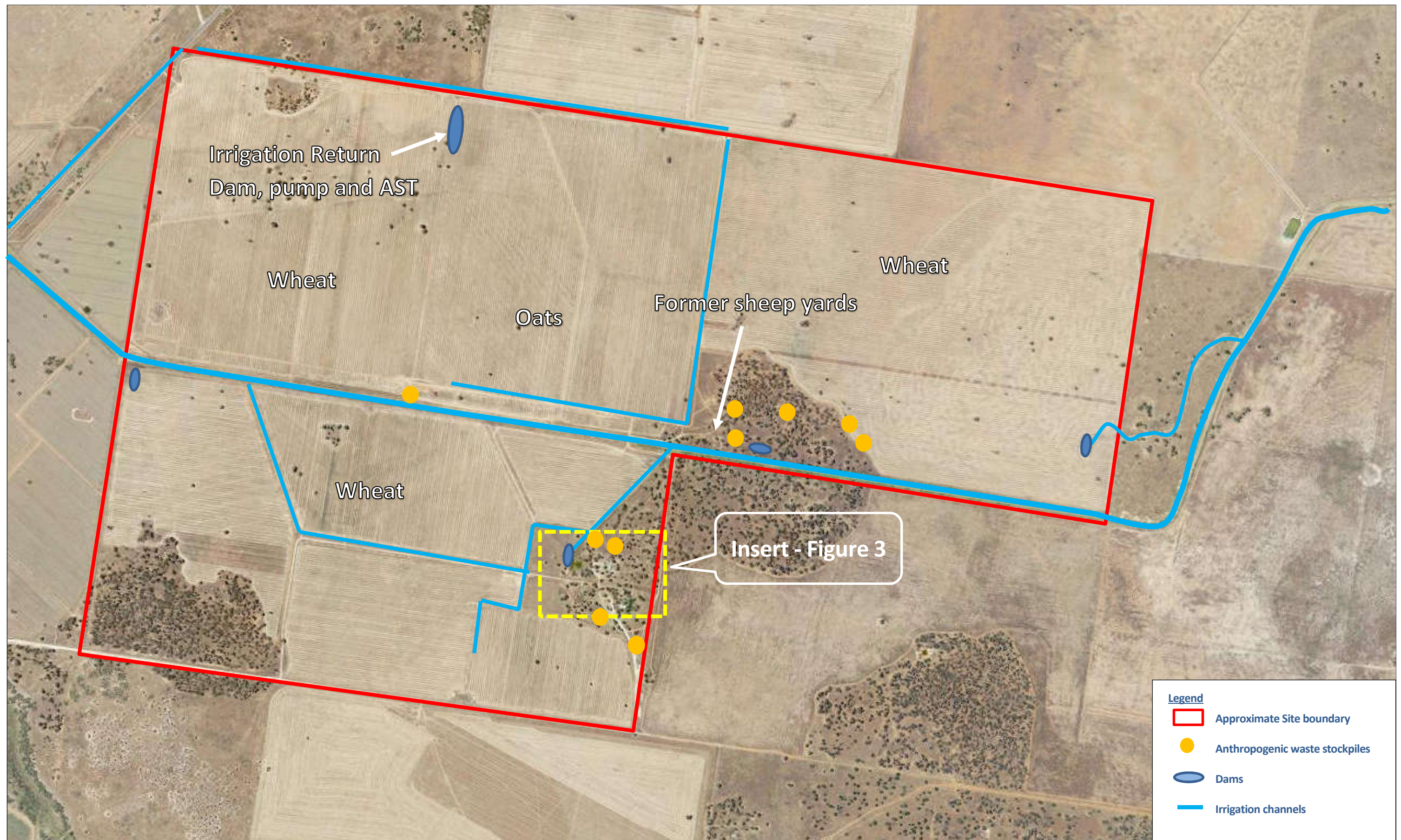


Figure 2 – Site Layout



Figure 3 – Site Layout of House, Shed and Sheep Yards

Appendix A

PROPOSED DEVELOPMENT PLAN

Appendix B

LOT SEARCH ENVIRONMENTAL RISK AND PLANNING
REPORT (2017)

Lotsearch



Environmental Risk and Planning Report

Mid Western Highway, Goolgowi, NSW 2652

Report Buffer: 1000m

Report Date: 25 Jan 2017 16:16:10

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
1	Georeferenced to the site location / premise or part of site
2	Georeferenced with the confidence of the general/approximate area
3	Georeferenced to the road or rail
4	Georeferenced to the road intersection
5	Feature is a buffered point
6	Land adjacent to Georeferenced Site
7	Georeferenced to a network of features

Dataset Listing

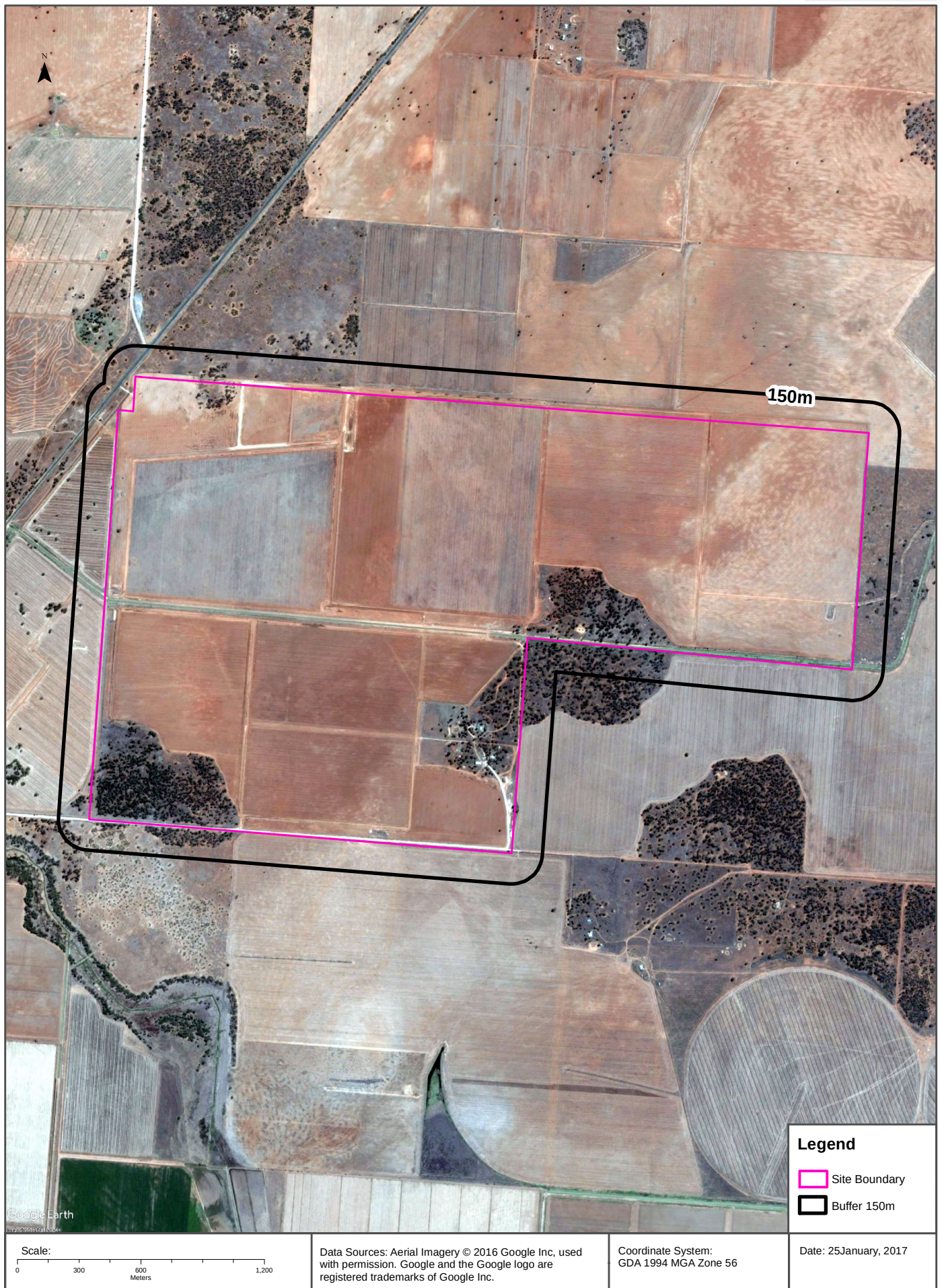
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	Land and Property Information	25/01/2017	25/01/2017	Daily	-	-	-
Topographic Data	Land and Property Information	10/04/2015	01/04/2015	As required	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	13/01/2017	09/01/2017	Monthly	0	0	0
Contaminated Land: Records of Notice	Environment Protection Authority	10/01/2017	10/01/2017	Monthly	0	0	0
Former Gasworks	Environment Protection Authority	10/01/2017	29/12/2016	Monthly	0	0	0
National Waste Management Site Database	Geoscience Australia	01/11/2016	15/11/2012	Quarterly	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	04/01/2017	22/12/2016	Monthly	1	1	1
Delicensed POEO Activities still Regulated by the EPA	Environment Protection Authority	04/01/2017	22/12/2016	Monthly	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	04/01/2017	22/12/2016	Monthly	3	3	3
UPSS Environmentally Sensitive Zones	Department of Environment, Climate Change and Water (NSW)	14/04/2015	12/01/2010	As required	0	0	0
Points of Interest	Land and Property Information	10/04/2015	01/04/2015	Annually	0	0	0
Tanks (Areas)	Land and Property Information	10/04/2015	01/04/2015	Annually	0	0	0
Tanks (Points)	Land and Property Information	10/04/2015	01/04/2015	Annually	0	0	0
State Forest	Land and Property Information	11/04/2016	23/01/2015	As required	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment and Heritage	11/04/2016	31/12/2015	Annually	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1	1	1
Groundwater Boreholes	NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation; Commonwealth of Australia (Bureau of Meteorology) 2015	21/03/2016	01/12/2015	Annually	2	2	3
Geological Units 1:250,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	1	-	1
Geological Structures 1:250,000	NSW Department of Industry, Resources & Energy	20/08/2014		None planned	0	-	0
Naturally Occurring Asbestos Potential	NSW Department of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	0	0	0
Standard Local Environmental Plan Acid Sulfate Soils	NSW Planning and Environment	07/10/2016	07/10/2016	As required	0	-	-
Dryland Salinity Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	0	0	0
Mining Subsidence Districts	Land and Property Information	31/08/2016	31/08/2016	As required	0	0	0
SEPP 14 - Coastal Wetlands	NSW Planning and Environment	17/12/2015	24/10/2008	Annually	0	0	0
SEPP 26 - Littoral Rainforest	NSW Planning and Environment	17/12/2015	05/02/1988	Annually	0	0	0
SEPP 71 - Coastal Protection	NSW Planning and Environment	17/12/2015	01/08/2003	Annually	0	0	0
SEPP Major Developments 2005	NSW Planning and Environment	09/03/2013	25/05/2005	Under Review	0	0	0
SEPP Strategic Land Use Areas	NSW Planning and Environment	06/07/2016	28/01/2014	Annually	0	0	0
Local Environmental Plan - Land Zoning	NSW Planning and Environment	03/01/2017	04/09/2016	Quarterly	1	2	2
Local Environmental Plan - Minimum Subdivision Lot Size	NSW Planning and Environment	03/01/2017	04/09/2016	Quarterly	1	-	-
Local Environmental Plan - Height of Building	NSW Planning and Environment	03/01/2017	04/09/2016	Quarterly	0	-	-
Local Environmental Plan - Floor Space Ratio	NSW Planning and Environment	03/01/2017	04/09/2016	Quarterly	0	-	-
Local Environmental Plan - Land Application	NSW Planning and Environment	03/01/2017	04/09/2016	Quarterly	1	-	-

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Local Environmental Plan - Land Reservation Acquisition	NSW Planning and Environment	03/01/2017	04/09/2016	Quarterly	0	-	-
State Heritage Items	NSW Planning and Environment	03/01/2017	30/10/2015	Quarterly	0	0	0
Local Heritage Items	NSW Planning and Environment	03/01/2017	04/09/2016	Quarterly	0	0	0
Bushfire Prone Land	NSW Rural Fire Service	11/11/2016	12/08/2016	Quarterly	0	0	2
RAMSAR Wetlands	Commonwealth of Australia Department of the Environment	08/10/2014	24/06/2011	As required	0	0	0
ATLAS of NSW Wildlife	NSW Office of Environment and Heritage	25/01/2017	25/01/2017	Daily	-	-	-

Aerial Imagery 2015

Mid Western Highway, Goolgowi, NSW 2652



Contaminated Land & Waste Management Facilities

Mid Western Highway, Goolgowi, NSW 2652

List of NSW contaminated sites notified to EPA

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

Map Id	Site	Address	Suburb	Activity	EPA site management class	Status	Dist	Direction	LC
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

Mid Western Highway, Goolgowi, NSW 2652

Contaminated Land: Records of Notice

Record of Notices within the report buffer:

Map Id	Area No	Name	Address	Suburb	Notices	Distance	Direction	LC
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 report buffer:

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

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

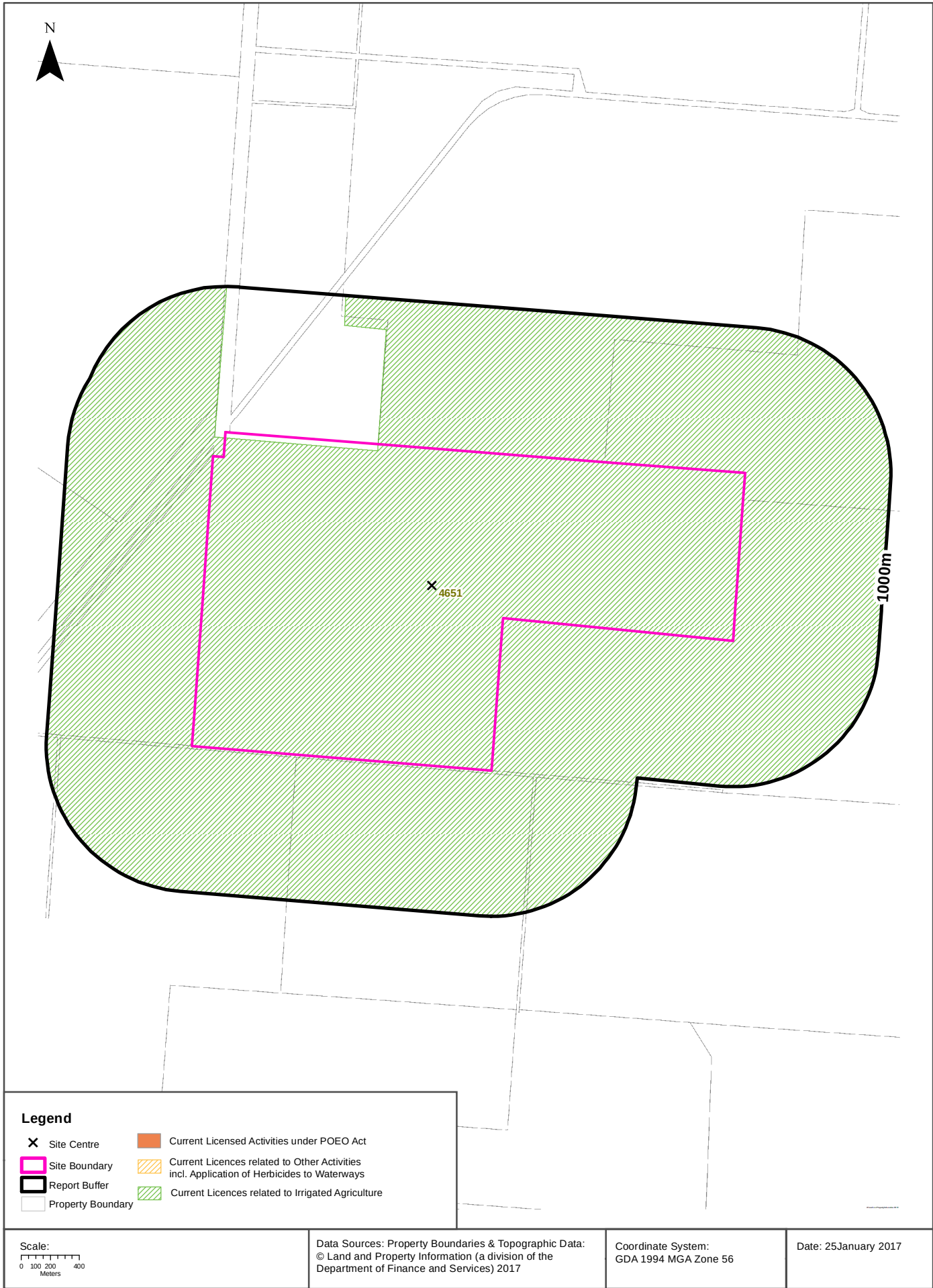
National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Postcode	Landfill	Reprocess	Transfer	Distance	Direction	LC
N/A	No records in buffer										

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

Current EPA Licensed Activities
Mid Western Highway, Goolgowi, NSW 2652



EPA Activities

Mid Western Highway, Goolgowi, NSW 2652

Licensed Activities under the POEO Act 1997

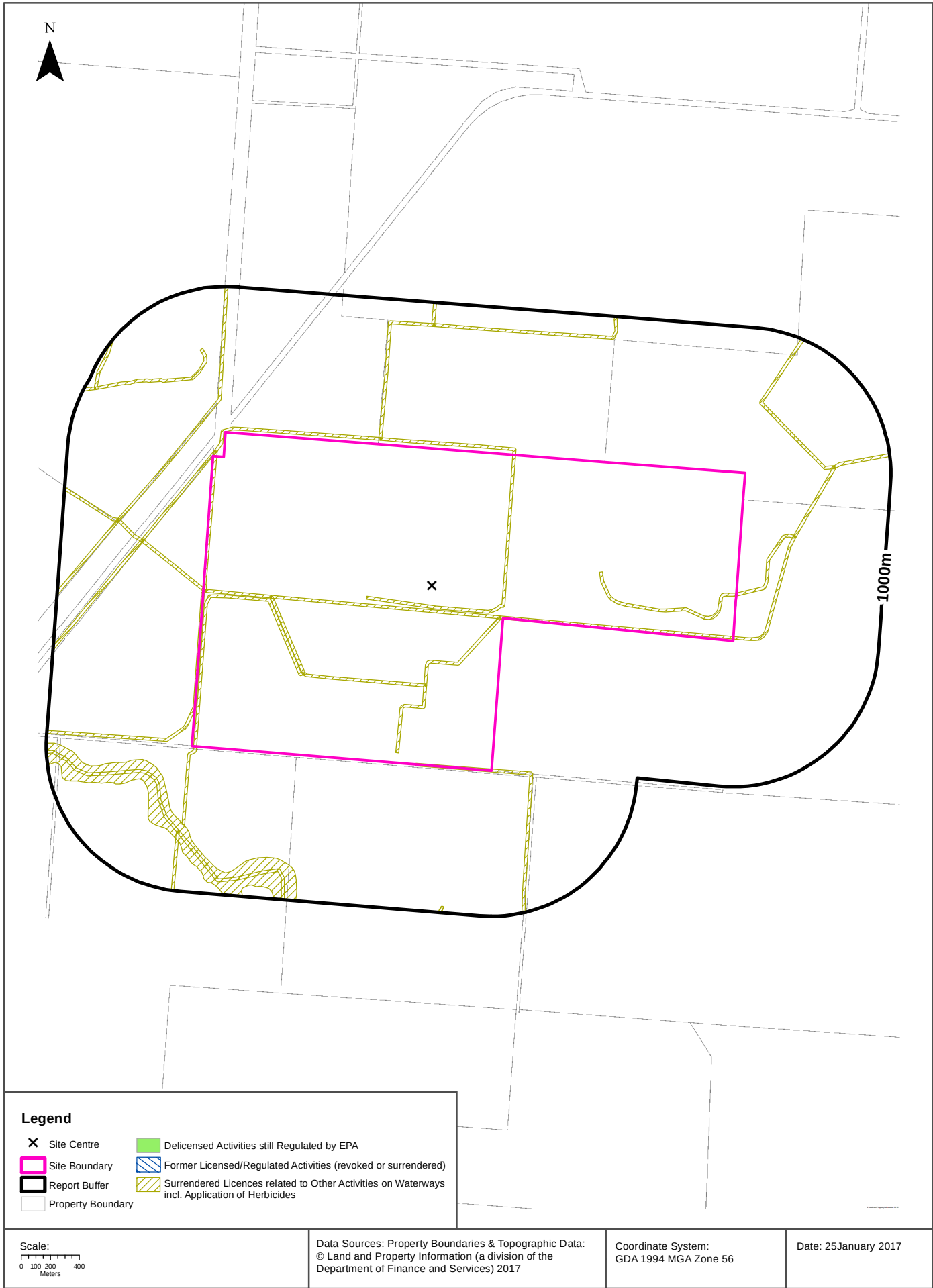
Licensed activities under the Protection of the Environment Operations Act 1997, within the report buffer:

EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
4651	MURRUMBIDGEE IRRIGATION LIMITED	MURRUMBIDGEE IRRIGATION AREA & DISTRICTS		HANWOOD	Irrigated agriculture	2	0m	Onsite

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities
Mid Western Highway, Goolgowi, NSW 2652



EPA Activities

Mid Western Highway, Goolgowi, NSW 2652

Delicensed Activities still regulated by the EPA

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

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

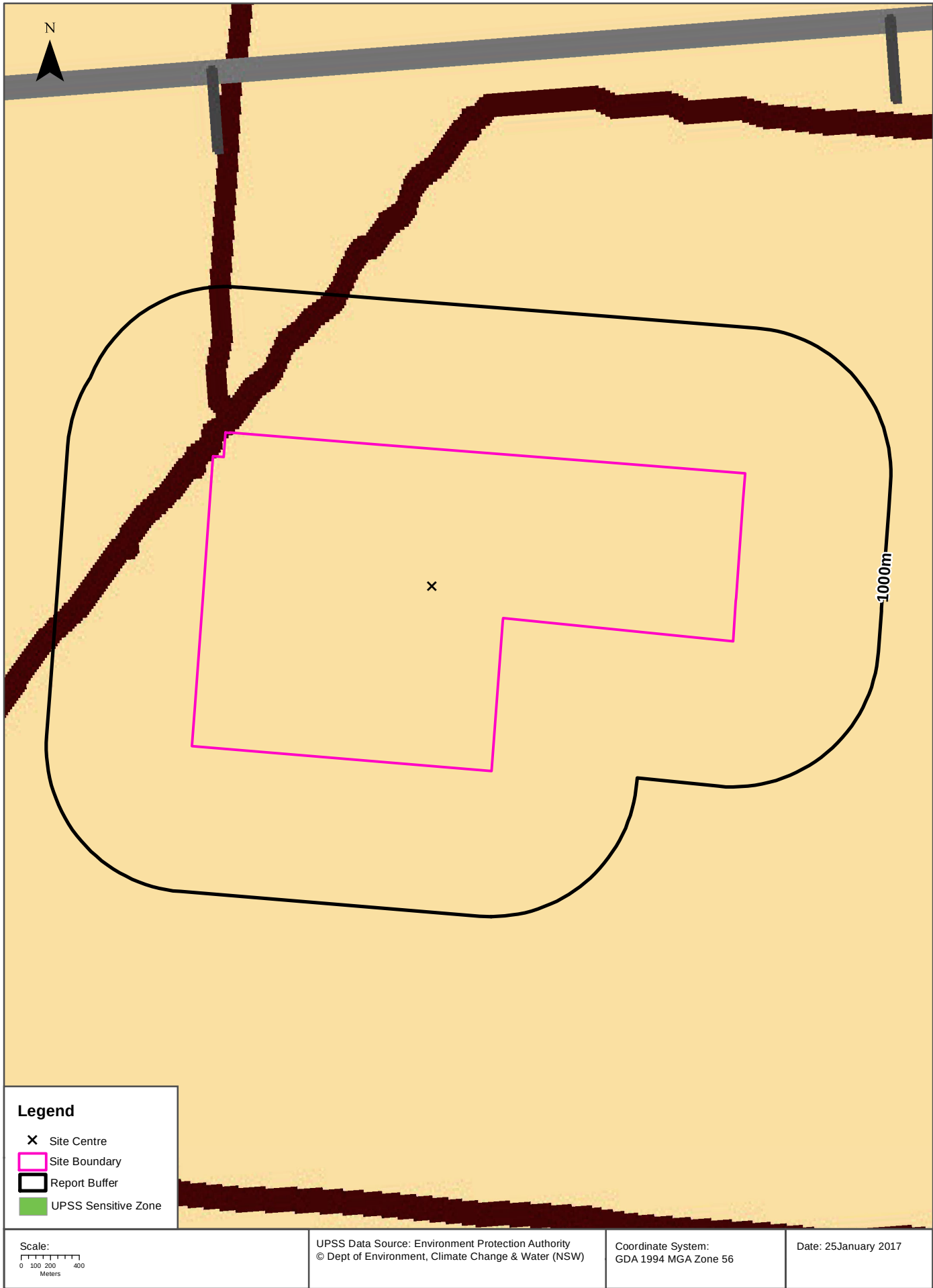
Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

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 report buffer:

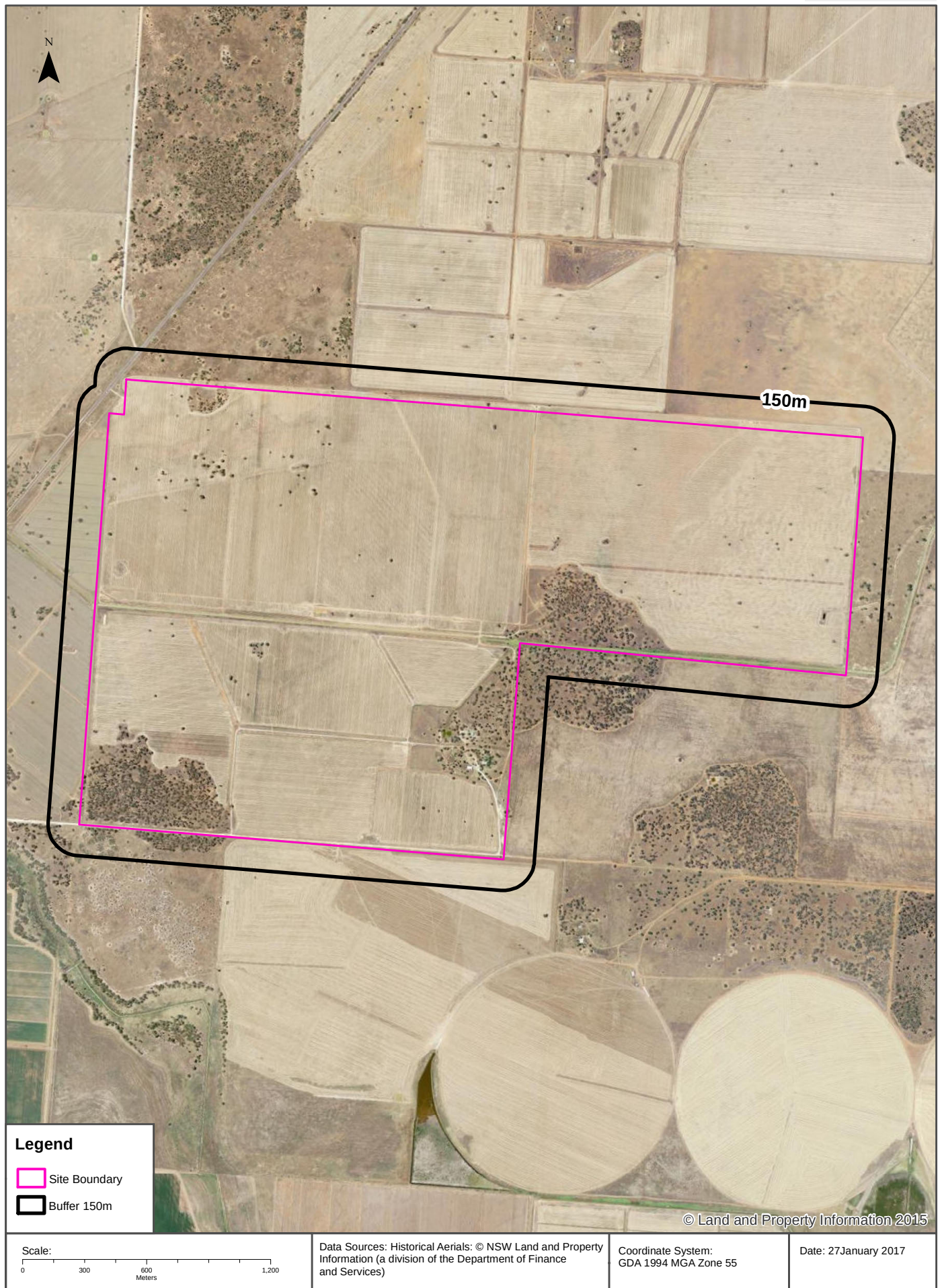
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	7	0m	Onsite
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	7	0m	Onsite
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	7	0m	Onsite

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



Aerial Imagery 2014

Mid Western Highway, Goolgowi, NSW 2652



Aerial Imagery 2003

Mid Western Highway, Goolgowi, NSW 2652



Legend

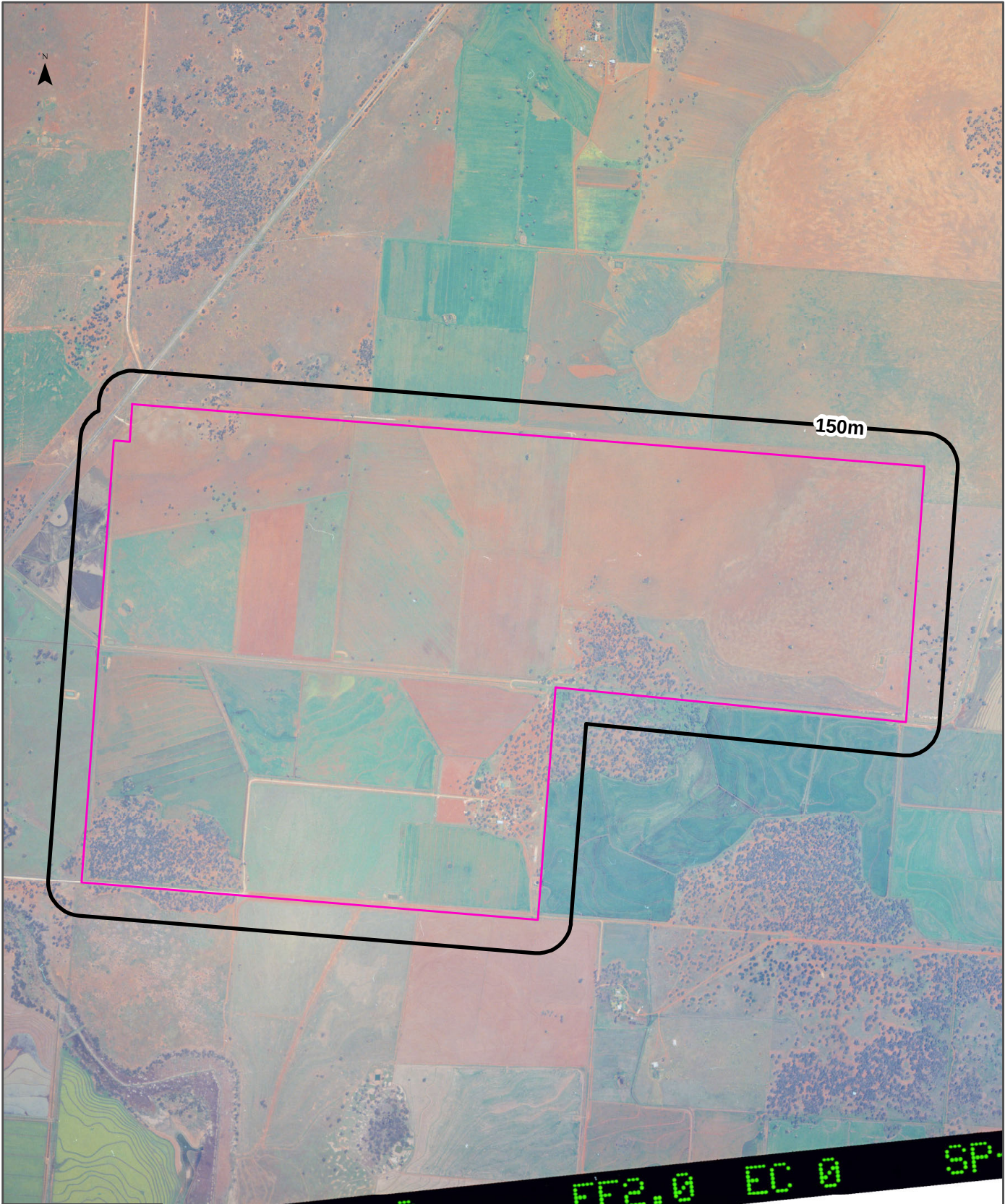
Site Boundary

Buffer 150m

Scale: 0 300 600 1,200 Meters	Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)	Coordinate System: GDA 1994 MGA Zone 56	Date: 25 January, 2017
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Aerial Imagery 1996

Mid Western Highway, Goolgowi, NSW 2652



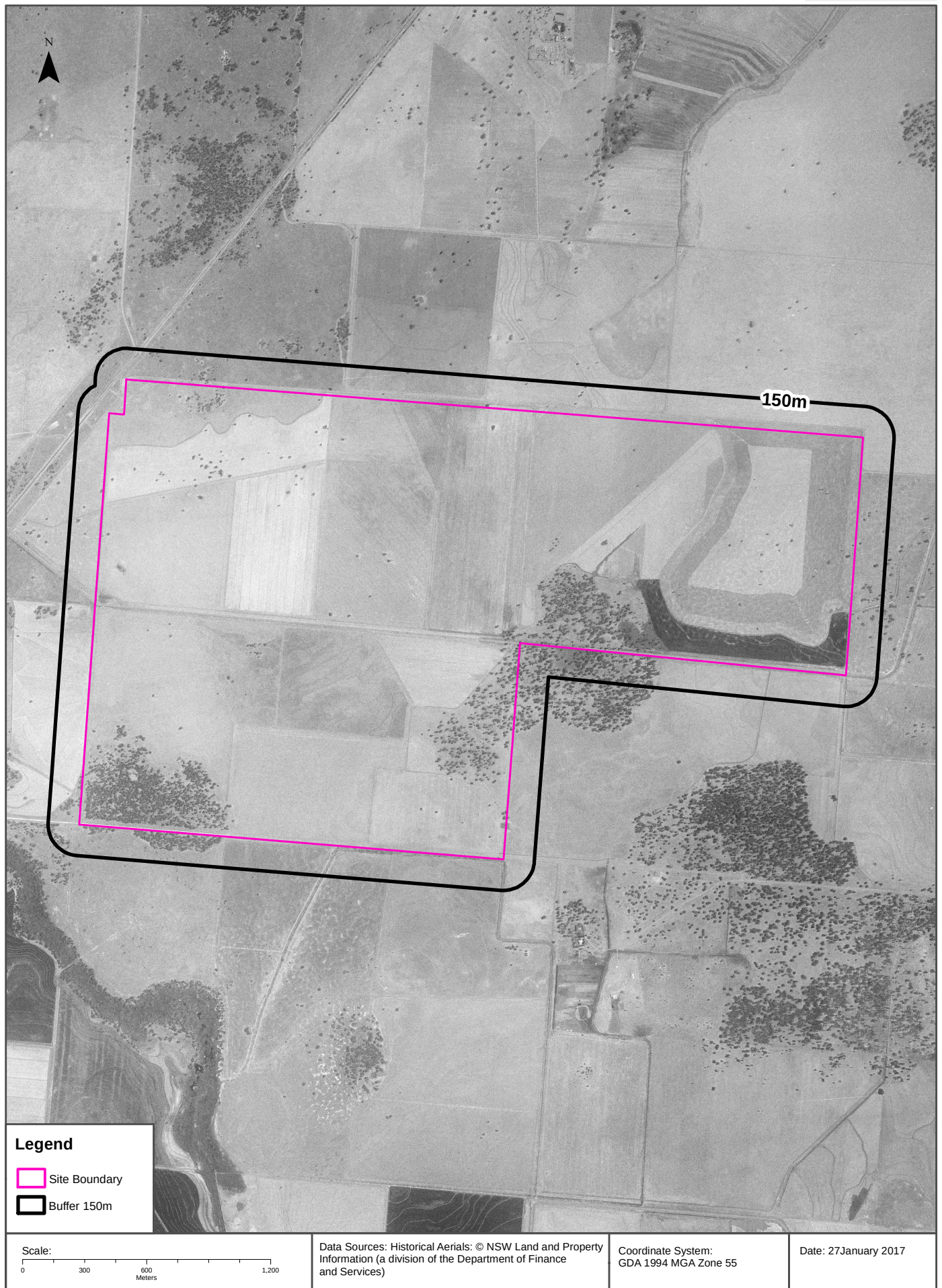
Legend

- Site Boundary
- Buffer 150m

Scale: 0 300 600 1,200 Meters	Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)	Coordinate System: GDA 1994 MGA Zone 56	Date: 25January, 2017
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Aerial Imagery 1988

Mid Western Highway, Goolgowi, NSW 2652



Aerial Imagery 1977

Mid Western Highway, Goolgowi, NSW 2652



Legend

- Site Boundary
- Buffer 150m

Scale:
0 300 600 1,200
Meters

Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)

Coordinate System:
GDA 1994 MGA Zone 56

Date: 25 January, 2017

Aerial Imagery 1969

Mid Western Highway, Goolgowi, NSW 2652



Legend

Site Boundary

Buffer 150m

Scale: 0 300 600 1,200 Meters	Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)	Coordinate System: GDA 1994 MGA Zone 56	Date: 25January, 2017
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Aerial Imagery 1958

Mid Western Highway, Goolgowi, NSW 2652



Legend

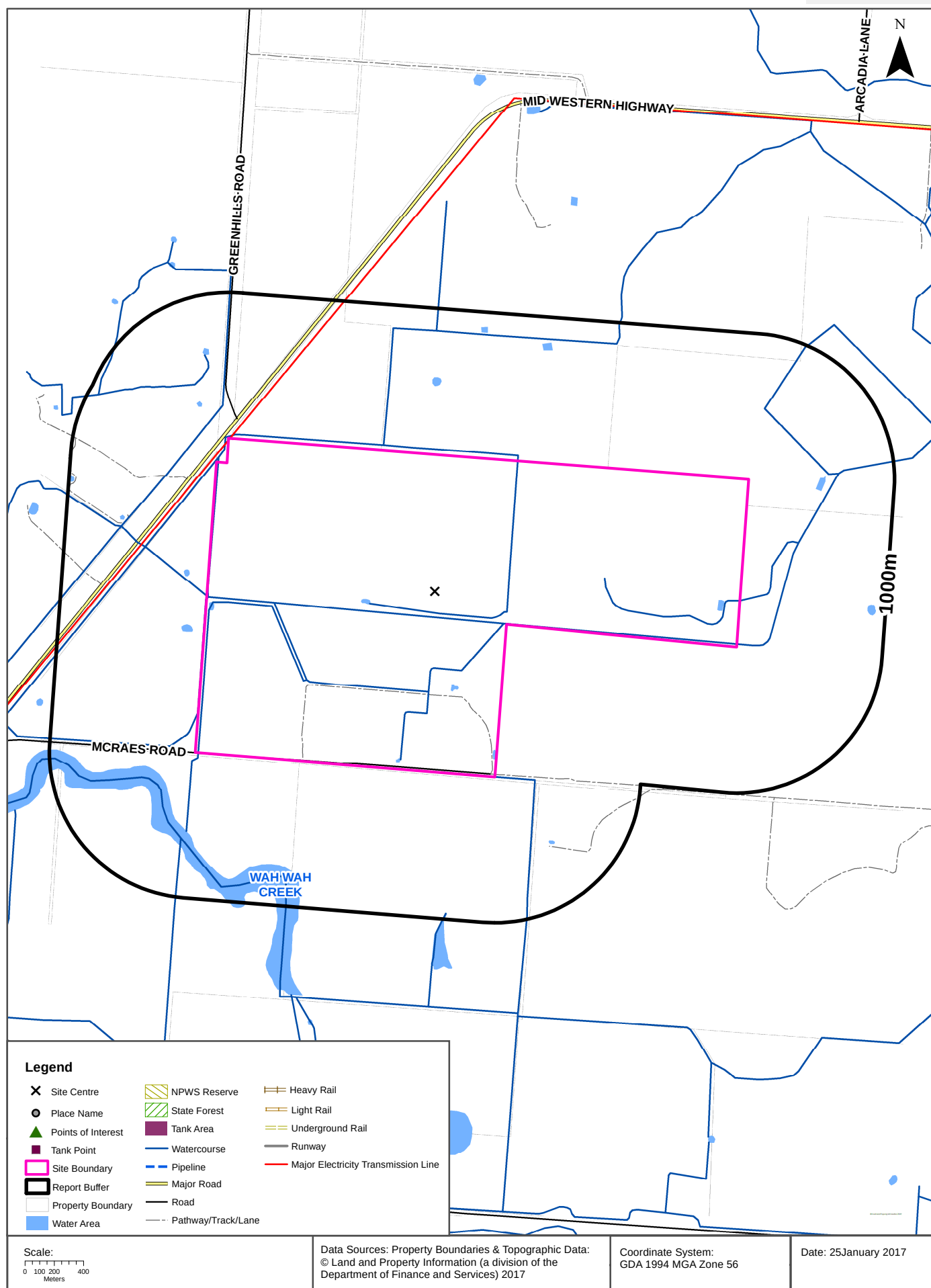
 Site Boundary

 Buffer 150m

Scale: 0 300 600 1,200 Meters	Data Sources: Historical Aerials: © Land and Property Information (a division of the Department of Finance and Services)	Coordinate System: GDA 1994 MGA Zone 56	Date: 25 January, 2017
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Topographic Features

Mid Western Highway, Goolgowi, NSW 2652



Topographic Features

Mid Western Highway, Goolgowi, NSW 2652

Points of Interest

What Points of Interest exist within the report buffer?

Map Id	Feature Type	Label	Distance	Direction
N/A				

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

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Tanks (Areas)

What are the Tank Areas located within the report 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	Capture Method	Feature Currency	Distance	Direction
N/A	No records in buffer						

Tanks (Points)

What are the Tank Points located within the report 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	Capture Method	Feature Currency	Distance	Direction
N/A	No records in buffer						

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

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Topographic Features

Mid Western Highway, Goolgowi, NSW 2652

State Forest

What State Forest exist within the report buffer?

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

State Forest Data Source: © Land and Property Information (2015)

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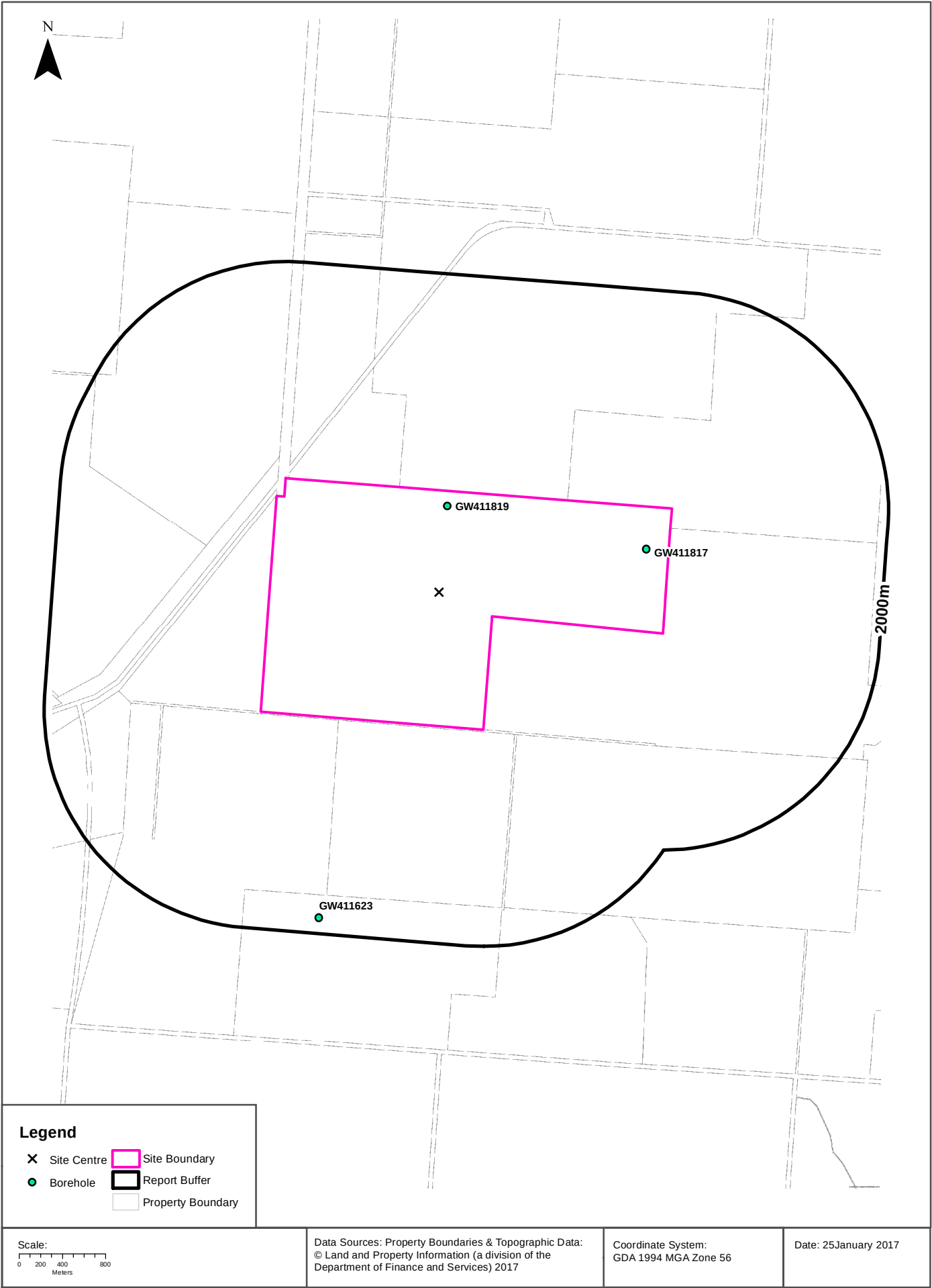
National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the report buffer?

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

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

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Hydrogeology & Groundwater

Mid Western Highway, Goolgowi, NSW 2652

Hydrogeology

Description of aquifers on-site:

Description

Porous, extensive aquifers of low to moderate productivity

Description of aquifers within the report buffer:

Description

Porous, extensive aquifers of low to moderate productivity

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

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Groundwater Boreholes

Boreholes within 2km of the site:

GW No.	Licence No	Work Type	Owner Type	Purpose	Contractor	Complete Date	Final Depth	Drilled Depth	Salinity	SWL	Yield	Elev	Dist	Dir
GW411819	40BL192389	Bore	Murrumbidgee Irrigation	Monitoring		01/12/1982	15.00	15.00					0m	Onsite
GW411817	40BL192389	Bore	Murrumbidgee Irrigation	Monitoring		01/07/1981	25.00	25.00					0m	Onsite
GW411623	40BL192389	Bore	Murrumbidgee Irrigation	Monitoring		01/03/1979	10.00	10.00					1854m	South

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

Mid Western Highway, Goolgowi, NSW 2652

Driller's Logs

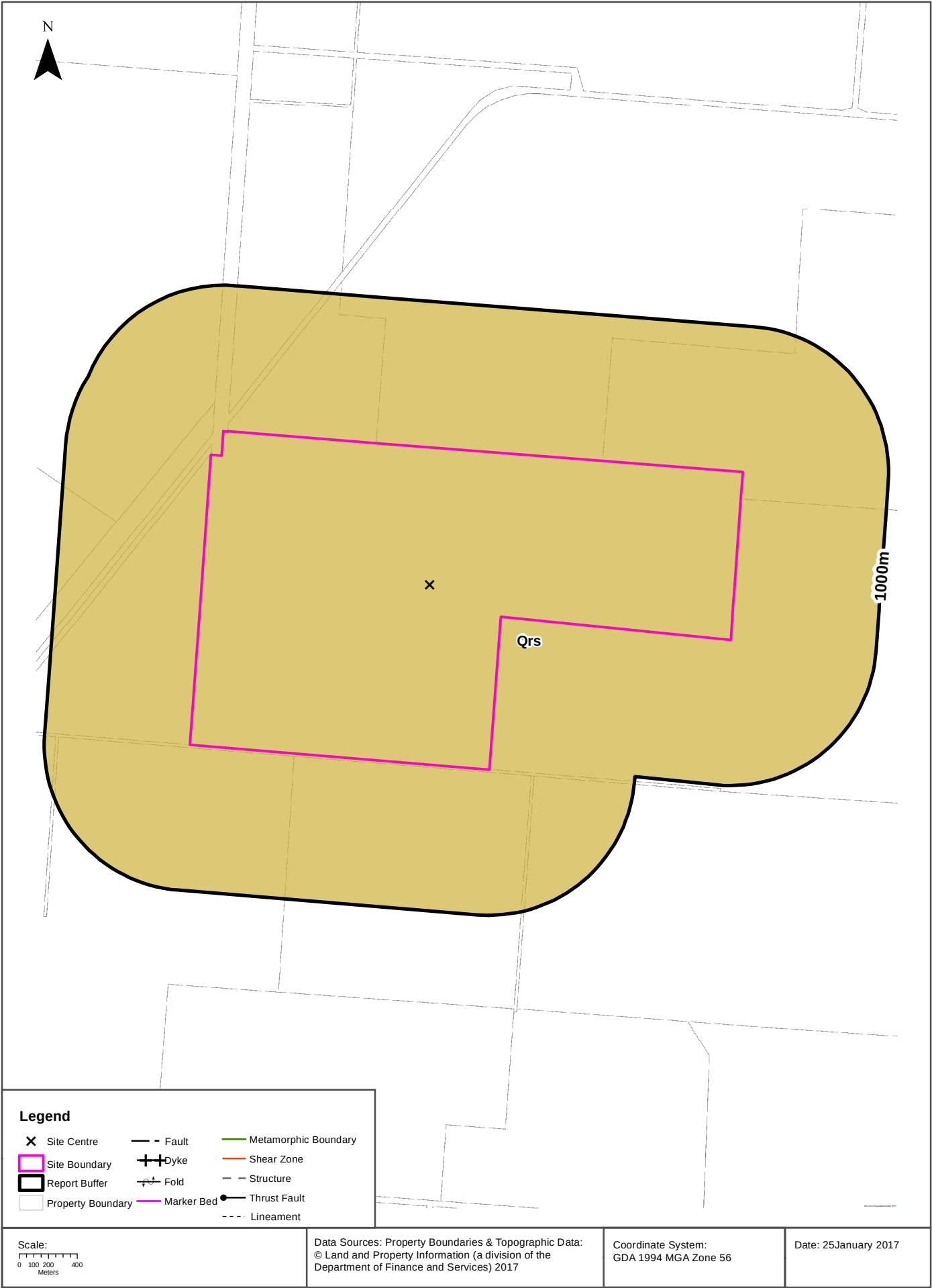
Drill log data relevant to the boreholes within 2km of the site:

Groundwater No	Drillers Log	Distance	Direction
GW411817	0.00m-1.00m Sandy Clay, Light, Heavy Carbonates, Free Lime, Light Brown 1.00m-3.00m Clay, Medium Harder, Brown, Grey, Red, Yellow Mottled Inclusions 3.00m-5.00m Clay, Medium To Hard, Kaolin, Dense, Grey, Yellow, Red, Mottled Inclusions 5.00m-6.00m Clay, Medium, Grey, Yellow, Red Mottled Inclusions 6.00m-9.50m Sandy Clay, Fine, Cemented, Hard, White, Yellow 9.50m-10.00m Clay, Pipeclay with Fine Sand, Hard, White 10.00m-12.00m Sand, Fine Cemented With Silt, White 12.00m-14.00m Sand, Fine, Silty, Very Hard, White 14.00m-15.00m Sand, Coarse Fine, Loose Dry, White Trace Yellow 15.00m-17.00m Clay, Coarse Sand, Harder White Trace Pink 17.00m-18.50m Clay, Fine Sand, Loose Soft, White 18.50m-19.50m Gravel, Coarse, Fine Sand, White 19.50m-20.00m Sand, Coarse, Loose Clean Sand, White, Yellow 20.00m-21.50m Sand, Coarse, Gravel, Loose Clean Sand, Pink 21.50m-22.00m Sand, Coarse, Gravel, Loose Clean Sand, Light Brown 22.00m-24.00m Sand, Coarse, Gravel, Loose Clean Sand, Light Brown 24.00m-25.00m Sand, Coarse, Gravel Becoming Cemeneted, Light Red Brown, Pink	0m	Onsite
GW411819	0.00m-0.50m Clay, Medium, Brown 0.50m-1.50m Clay, Light to Medium, Brown 1.50m-2.50m Silty Clay, Light, Mica, Dark Brown, Yellowish Brown 2.50m-5.00m Silty Clay, With Fine Sand, Mica, Light Yellowish Brown, Grey 5.00m-7.00m Sand, Coarse, Clay, Lacustrine, Grey 7.00m-9.00m Sand, Coarse, Clay, To Clayey Coarse Sand, Yellowish Grey 9.00m-10.50m Sand, Fine, Yellow 10.50m-13.50m Sand, Fine, Off White 13.50m-14.50m Sand, White 14.50m-15.00m Sand, Coarse, Yellow, White	0m	Onsite
GW411623	0.00m-0.50m Clay, Medium, Dark Brown 0.50m-1.50m Clay, Medium, Trace Lime Concretions, Grey Brown 1.50m-2.50m Loam, Fine Sandy Clay, Mica, Dark Grey Brown 2.50m-3.50m Loam, Fine Sandy, High Organic Content, Grey, Black Inclusions 3.50m-4.00m Loam, Sandy, Light Yellow Grey Brown 4.00m-5.50m Sandy Clay, Light, Mica, Light Grey, Trace Yellow 5.50m-7.00m Sand, Fine, Brown 7.00m-7.50m Clayey Sand, Fine, Dark Yellow Brown 7.50m-8.00m Clay, Medium, Manganese Compounds, Stained, Grey, Yellow 8.00m-10.00m Clay, Hard Dry, Tertiary Surface, Bright Red, Yellow, Grey	1854m	South

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology 1:250,000

Mid Western Highway, Goolgowi, NSW 2652



Geology

Mid Western Highway, Goolgowi, NSW 2652

Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qrs	Flood plains of black and red clayey silt, sand and gravel				Cainozoic			1:250,000

What are the Geological Units within the report buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qrs	Flood plains of black and red clayey silt, sand and gravel				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 report buffer?

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

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

© State of New South Wales through the NSW Department of Industry, Resources & Energy

Naturally Occurring Asbestos Potential

Mid Western Highway, Goolgowi, NSW 2652

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the report 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

Standard Local Environmental Plan Acid Sulfate Soils

Mid Western Highway, Goolgowi, NSW 2652

Standard Local Environmental Plan Acid Sulfate Soils

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

Soil Class	Description	LEP
N/A		

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

Soil Class	Description	LEP	Distance	Direction
N/A				

Acid Sulfate Data Source Accessed 07/10/2016: NSW Crown Copyright - Planning and Environment
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Dryland Salinity

Mid Western Highway, Goolgowi, NSW 2652

Dryland Salinity

Is there Dryland Salinity data onsite?

No

Is there Dryland Salinity data within the report 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.

Mining Subsidence Districts

Mid Western Highway, Goolgowi, NSW 2652

Mining Subsidence Districts

Mining Subsidence Districts within the report 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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Environmental Zoning

Mid Western Highway, Goolgowi, NSW 2652

State Environmental Planning Policy Protected Areas

Are there any State Environmental Planning Policy Protected Areas onsite or within the report buffer?

Dataset	Onsite	Within Site Buffer	Distance
SEPP14 - Coastal Wetlands	No	No	N/A
SEPP26 - Littoral Rainforests	No	No	N/A
SEPP71 - Coastal Protection Zone	No	No	N/A

SEPP Protected Areas Data Source: NSW Department of Planning & Environment

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State Environmental Planning Policy Major Developments (2005)

State Environmental Planning Policy Major Developments within the report buffer?

Map Id	Feature	Effective Date	Distance	Direction
N/A	No records within buffer			

SEPP Major Development Data Source: NSW Department of Planning & Environment

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State Environmental Planning Policy Strategic Land Use Areas

State Environmental Planning Policy Strategic Land Use Areas onsite or within the report buffer?

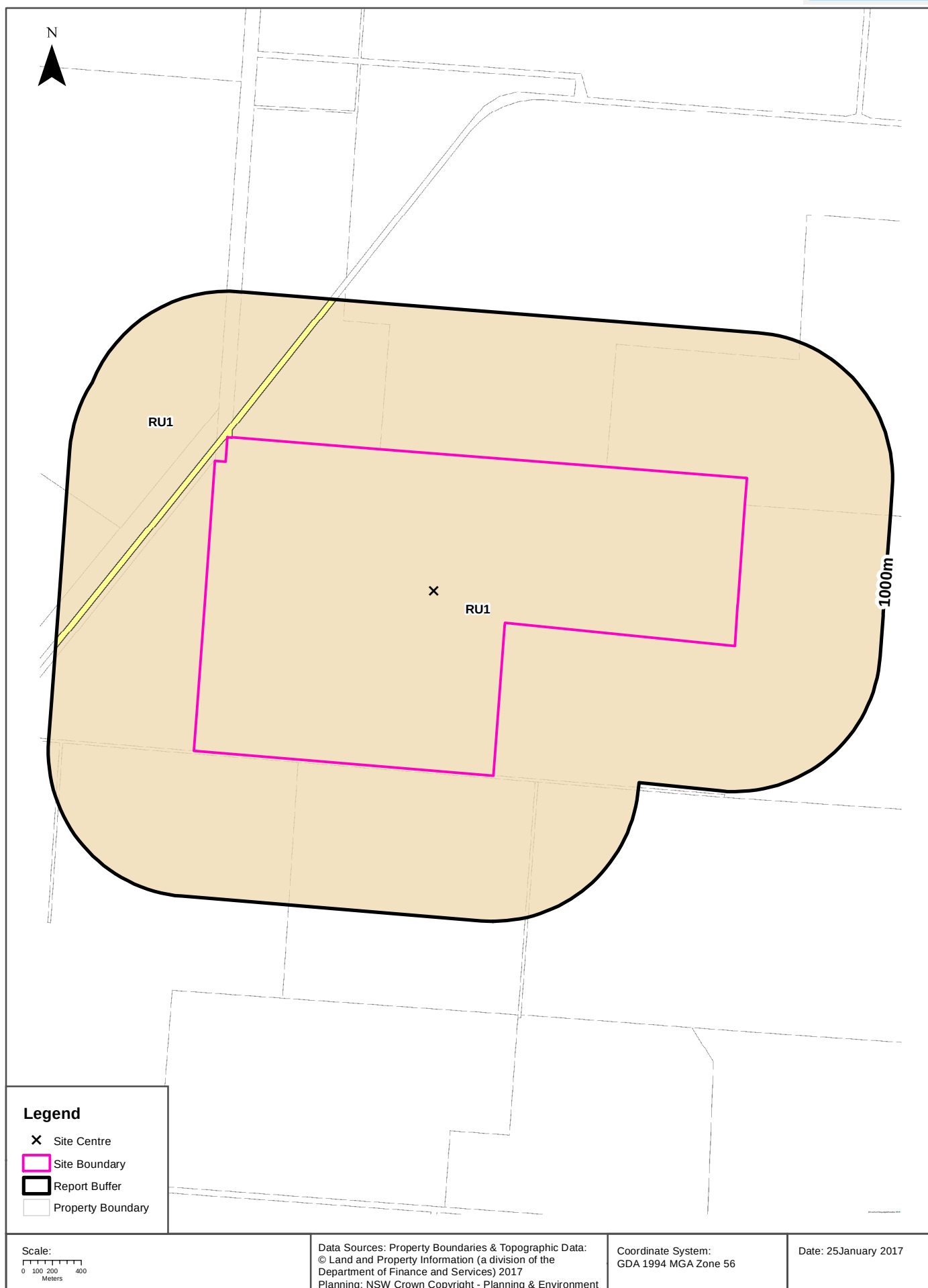
Strategic Land Use	SEPPNo	Effective Date	Amendment	Amendment Year	Distance	Direction
No records within buffer						

SEPP Strategic Land Use Data Source: NSW Department of Planning & Environment

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LEP Planning Zones

Mid Western Highway, Goolgowi, NSW 2652



Local Environmental Plan

Mid Western Highway, Goolgowi, NSW 2652

Land Zoning

What Local Environmental Plan Land Zones exist within the report buffer?

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU1	Primary Production		Carrathool Local Environmental Plan 2012	20/07/2012	20/07/2012	20/07/2012		0m	Onsite
SP2	Infrastructure	Classified Road	Carrathool Local Environmental Plan 2012	20/07/2012	20/07/2012	20/07/2012		0m	West

Local Environment Plan Data Source: NSW Crown Copyright - Planning & Environment
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Local Environmental Plan

Mid Western Highway, Goolgowi, NSW 2652

Minimum Subdivision Lot Size

What are the onsite Local Environmental Plan Minimum Subdivision Lot Sizes?

Symbol	Minimum Lot Size	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
AB	40 ha	Carrathool Local Environmental Plan 2012	20/07/2012	20/07/2012	20/07/2012		100

Maximum Height of Building

What are the onsite Local Environmental Plan Maximum Height of Buildings?

Symbol	Maximum Height of Building	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
No Data							

Floor Space Ratio

What are the onsite Local Environmental Plan Floor Space Ratios?

Symbol	Floor Space Ratio	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
No Data							

Land Application

What are the onsite Local Environmental Plan Land Applications?

Application Type	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
Included	Carrathool Local Environmental Plan 2012	20/07/2012	20/07/2012	20/07/2012		100

Land Reservation Acquisition

What are the onsite Local Environmental Plan Land Reservation Acquisitions?

Reservation	LEP	Published Date	Commenced Date	Currency Date	Amendment	Comments	Percentage of Site Area
No Data							

Local Environment Plan Data Source: NSW Crown Copyright - Planning & Environment
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Heritage

Mid Western Highway, Goolgowi, NSW 2652

State Heritage Items

What are the State Heritage Items located within the report 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 - Planning & Environment

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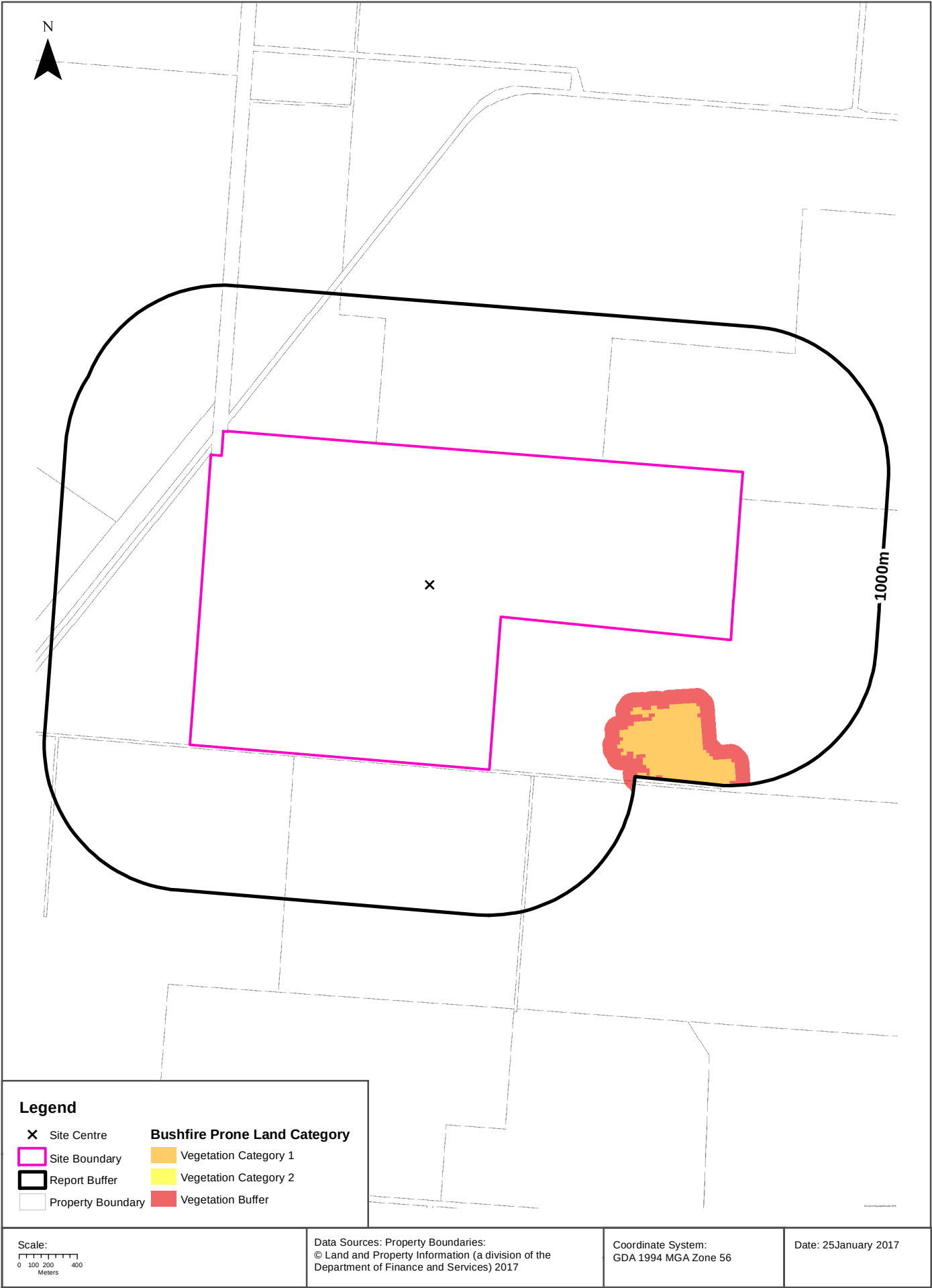
Local Heritage Items

What are the Local Heritage Items located within the report buffer?

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

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Natural Hazards

Mid Western Highway, Goolgowi, NSW 2652

Bushfire Prone Land

What are the nearest Bushfire Prone Land Categories that exist within the report buffer?

Bushfire Prone Land Category	Distance	Direction
Vegetation Buffer	350m	South East
Vegetation Category 1	451m	South East

Bushfire Prone Land Data Reference - NSW RFS GIS Data Set

Ecological Constraints

Mid Western Highway, Goolgowi, NSW 2652

RAMSAR Wetlands

What RAMSAR Wetland areas exist within the report 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

ATLAS of NSW Wildlife

Endangered & Vulnerable Species on the ATLAS of NSW Wildlife database, within 10km of the site?

Class	Family	Scientific	Common	Exotic	NSW Status	Commonwealth Status
Aves	Accipitridae	Circus assimilis	Spotted Harrier	No	Vulnerable, Protected	
Aves	Accipitridae	Hieraaetus morphnoides	Little Eagle	No	Vulnerable, Protected	
Aves	Burhinidae	Burhinus grallarius	Bush Stone-curlew	No	Endangered, Protected	
Aves	Cacatuidae	Lophochroa leadbeateri	Major Mitchell's Cockatoo	No	Vulnerable, Protected, Category 2 Sensitive Species	
Aves	Climacteridae	Climacteris affinis	White-browed Treecreeper population in Carrathool local government area south of the Lachlan River and Griffith local government area	No	Endangered Population, Protected	
Aves	Falconidae	Falco subniger	Black Falcon	No	Vulnerable, Protected	
Aves	Meliphagidae	Grantiella picta	Painted Honeyeater	No	Vulnerable, Protected	Vulnerable
Aves	Neosittidae	Daphoenositta chrysoptera	Varied Sittella	No	Vulnerable, Protected	
Aves	Otididae	Ardeotis australis	Australian Bustard	No	Endangered, Protected	
Aves	Pomatostomidae	Pomatostomus temporalis temporalis	Grey-crowned Babbler (eastern subspecies)	No	Vulnerable, Protected	
Aves	Psittacidae	Polytelis swainsonii	Superb Parrot	No	Vulnerable, Protected, Category 3 Sensitive Species	Vulnerable

Data does not include records not defined as either endangered or vulnerable, and category 1 sensitive species are also excluded. NSW Office of Environment and Heritage's Atlas of NSW Wildlife, which holds data from a number of custodians. Data obtained 25/01/2017

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Appendix C

SITE PHOTOGRAPHS



Plate 1 – Sheep Yard located West of the Residential Dwelling.



Plate 2 – Machinery and shearing shed.



Plate 3 – Work area inside machinery and shearing shed.



Plate 4 – Raised shearing board in the machinery and shearing shed.



Plate 5 – External toilet, septic tank and effluent disposal area for machinery and shearing shed.



Plate 6 – Septic tank adjacent to the main house.



Plate 7 – Suspected effluent disposal area for the main house.



Plate 8 – Second house.



Plate 9 – Septic tank and effluent disposal area for second house.



Plate 10 – Waste stockpile #1 north of the main house.



Plate 11 – Waste stockpile #2 - north west of the main house with ACM fragments.



Plate 12 – Waste stockpile #3 including herbicide drums and containers at the base of a former dam near the former sheep yards.



Plate 13 – Waste stockpile #4 in the vegetated area in the middle of the Site.



Plate 14 – Waste stockpile #5 near the roadway.



Plate 15 – Waste stockpile #6 in the vegetated area.



Plate 15 – Waste stockpile #7 in the vegetated area near the roadway.



Plate 16 – Waste stockpile #9 near the sheep yard and machinery and shearing shed.



Plate 17 – Waste stockpile #10 within an excavated area near the entrance roadway.



Plate 18 – Waste stockpile #111 in the vegetated area in the middle of the Site.



Plate 19 – Irrigation pump associated with the irrigation return dam.



Plate 20 – Irrigation channel that runs east – west through the property.



Plate 21 – former sheep yards.



Plate 22 – Dam near former sheep yards.



Plate 23 – Agricultural fields.



Plate 24 – Sheep loading ramp in the north-western corner of the Site.

Appendix D

GROUNDWATER BORE REPORTS

NSW Office of Water

Work Summary

GW411623

Licence: 40BL192389

Licence Status: ACTIVE

Authorised Purpose(s): MONITORING BORE

Intended Purpose(s): MONITORING BORE

Work Type: Bore

Work Status: Equipped

Construct.Method:

Owner Type: Murrumbidgee Irrigation

Commenced Date:

Completion Date: 01/03/1979

Final Depth: 10.00 m

Drilled Depth: 10.00 m

Contractor Name:

Driller: Unkown Unknown

Assistant Driller:

Property: VARIOUS SITES WITHIN MIA
LEETON AND GRIFFITH GRIFFITH
2680

Standing Water Level:

GWMA:

GW Zone:

Salinity:

Yield:

Site Details

Site Chosen By:

County

Form A: STURT

Licensed:

Parish

STURT.41

Cadastre

2//615019

Region: 40 - Murrumbidgee

CMA Map: 8029-N

River Basin: 410 - MURRUMBIDGEE RIVER

Grid Zone:

Area/District:

Scale:

Elevation: 0.00 m (A.H.D.)

Elevation Source: Unknown

Northing: 6230400.0

Easting: 366100.0

Latitude: 34°03'30.9"S

Longitude: 145°32'56.8"E

GS Map: -

MGA Zone: 0

Coordinate Source: GPS - Global Positioning System

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	10.00	100			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	Clay, Medium, Dark Brown	Clay	
0.50	1.50	1.00	Clay, Medium, Trace Lime Concretions, Grey Brown	Clay	
1.50	2.50	1.00	Loam, Fine Sandy Clay, Mica, Dark Grey Brown	Loam	

2.50	3.50	1.00	Loam, Fine Sandy, High Organic Content, Grey, Black Inclusions	Loam	
3.50	4.00	0.50	Loam, Sandy, Light Yellow Grey Brown	Loam	
4.00	5.50	1.50	Sandy Clay, Light, Mica, Light Grey, Trace Yellow	Sandy Clay	
5.50	7.00	1.50	Sand, Fine, Brown	Sand	
7.00	7.50	0.50	Clayey Sand, Fine, Dark Yellow Brown	Clayey Sand	
7.50	8.00	0.50	Clay, Medium, Manganese Compounds, Stained, Grey, Yellow	Clay	
8.00	10.00	2.00	Clay, Hard Dry, Tertiary Surface, Bright Red, Yellow, Grey	Clay	

Remarks

01/03/1979: Form A Remarks:

R Fuller - 4 May 2010, completion date taken from date of entry; all information was given by MI. Bore No G3026

***** End of GW411623 *****

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NSW Office of Water

Work Summary

GW411817

Licence: 40BL192389	Licence Status: ACTIVE
Authorised Purpose(s): MONITORING BORE Intended Purpose(s): MONITORING BORE	
Work Type: Bore	
Work Status: Equipped	
Construct.Method:	
Owner Type: Murrumbidgee Irrigation	
Commenced Date:	Final Depth: 25.00 m
Completion Date: 01/07/1981	Drilled Depth: 25.00 m
Contractor Name:	
Driller: Unkown Unknown	
Assistant Driller:	
Property: VARIOUS SITES WITHIN MIA LEETON AND GRIFFITH GRIFFITH 2680	Standing Water Level:
GWMA:	Salinity:
GW Zone:	Yield:

Site Details

Site Chosen By:	County Form A: STURT Licensed:	Parish STURT.41	Cadastre 1//749831
Region: 40 - Murrumbidgee	CMA Map: 8029-N		
River Basin: 410 - MURRUMBIDGEE RIVER Area/District:	Grid Zone:	Scale:	
Elevation: 0.00 m (A.H.D.) Elevation Source: Unknown	Northing: 6233600.0 Easting: 369300.0	Latitude: 34°01'48.5"S Longitude: 145°35'03.3"E	
GS Map: -	MGA Zone: 0	Coordinate Source: GPS - Global Positioning System	

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	25.00	75			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	1.00	1.00	Sandy Clay, Light, Heavy Carbonates, Free Lime, Light Brown	Sandy Clay	
1.00	3.00	2.00	Clay, Medium Harder, Brown, Grey, Red, Yellow Mottled Inclusions	Clay	
3.00	5.00	2.00	Clay, Medium To Hard, Kaolin, Dense,	Clay	

			Grey, Yellow, Red, Mottled Inclusions		
5.00	6.00	1.00	Clay, Medium, Grey, Yellow, Red Mottled Inclusions	Clay	
6.00	9.50	3.50	Sandy Clay, Fine, Cemented, Hard, White, Yellow	Sandy Clay	
9.50	10.00	0.50	Clay, Pipeclay with Fine Sand, Hard, White	Clay	
10.00	12.00	2.00	Sand, Fine Cemented With Silt, White	Sand	
12.00	14.00	2.00	Sand, Fine, Silty, Very Hard, White	Sand	
14.00	15.00	1.00	Sand, Coarse Fine, Loose Dry, White Trace Yellow	Sand	
15.00	17.00	2.00	Clay, Coarse Sand, Harder White Trace Pink	Clay	
17.00	18.50	1.50	Clay, Fine Sand, Loose Soft, White	Clay	
18.50	19.50	1.00	Gravel, Coarse, Fine Sand, White	Gravel	
19.50	20.00	0.50	Sand, Coarse, Loose Clean Sand, White, Yellow	Sand	
20.00	21.50	1.50	Sand, Coarse, Gravel, Loose Clean Sand, Pink	Sand	
21.50	22.00	0.50	Sand, Coarse, Gravel, Loose Clean Sand, Light Brown	Sand	
22.00	24.00	2.00	Sand, Coarse, Gravel, Loose Clean Sand, Light Brown	Sand	
24.00	25.00	1.00	Sand, Coarse, Gravel Becoming Cemeneted, Light Red Brown, Pink	Sand	

Remarks

01/07/1981: Form A Remarks:

R Fuller - 5 May 2010, completion date taken from date of entry; all information was given by MI. Bore No G3138

*** End of GW411817 ***

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NSW Office of Water

Work Summary

GW411819

Licence: 40BL192389	Licence Status: ACTIVE
Authorised Purpose(s): MONITORING BORE Intended Purpose(s): MONITORING BORE	
Work Type: Bore	
Work Status: Equipped	
Construct.Method:	
Owner Type: Murrumbidgee Irrigation	
Commenced Date:	Final Depth: 15.00 m
Completion Date: 01/12/1982	Drilled Depth: 15.00 m
Contractor Name:	
Driller: Unkown Unknown	
Assistant Driller:	
Property: VARIOUS SITES WITHIN MIA LEETON AND GRIFFITH GRIFFITH 2680	Standing Water Level:
GWMA:	Salinity:
GW Zone:	Yield:

Site Details

Site Chosen By:	County Form A: STURT Licensed:	Parish STURT.41	Cadastre 1//749831
Region: 40 - Murrumbidgee	CMA Map: 8029-N		
River Basin: 410 - MURRUMBIDGEE RIVER Area/District:	Grid Zone:	Scale:	
Elevation: 0.00 m (A.H.D.) Elevation Source: Unknown	Northing: 6234100.0 Easting: 367500.0	Latitude: 34°01'31.4"S Longitude: 145°33'53.4"E	
GS Map: -	MGA Zone: 0	Coordinate Source: GPS - Global Positioning System	

Construction

Negative depths indicate Above Ground Level; C-Cemented; SL-Slot Length; A-Aperture; GS-Grain Size; Q-Quantity; PL-Placement of Gravel Pack; PC-Pressure Cemented; S-Sump; CE-Centralisers

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	15.00	0			(Unknown)

Water Bearing Zones

From (m)	To (m)	Thickness (m)	WBZ Type	S.W.L. (m)	D.D.L. (m)	Yield (L/s)	Hole Depth (m)	Duration (hr)	Salinity (mg/L)
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Geologists Log

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.50	0.50	Clay, Medium, Brown	Clay	
0.50	1.50	1.00	Clay, Light to Medium, Brown	Clay	
1.50	2.50	1.00	Silty Clay, Light, Mica, Dark Brown, Yellowish Brown	Silty Clay	
2.50	5.00	2.50	Silty Clay, With Fine Sand, Mica, Light	Silty Clay	

			Yellowish Brown, Grey		
5.00	7.00	2.00	Sand, Coarse, Clay, Lacustrine, Grey	Sand	
7.00	9.00	2.00	Sand, Coarse, Clay, To Clayey Coarse Sand, Yellowish Grey	Sand	
9.00	10.50	1.50	Sand, Fine, Yellow	Sand	
10.50	13.50	3.00	Sand, Fine, Off White	Sand	
13.50	14.50	1.00	Sand, White	Sand	
14.50	15.00	0.50	Sand, Coarse, Yellow, White	Sand	

Remarks

01/12/1982: Form A Remarks:
R Fuller - 5 May 2010, completion date taken from date of entry; all information was given by MI. Bore No G3148

*** End of GW411819 ***

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Appendix E

ENVIRONMENTAL PROTECTION LICENCE

Environment Protection Licence



Licence - 4651

Licence Details	
Number:	4651
Anniversary Date:	01-July

Licensee
MURRUMBIDGEE IRRIGATION LIMITED
LOCKED BAG 6010
GRIFFITH NSW 2680

Premises
MURRUMBIDGEE IRRIGATION AREA & DISTRICTS
HANWOOD NSW 2680

Scheduled Activity
Irrigated Agriculture

Fee Based Activity	Scale
Irrigated agriculture	> 100000 ha of existing area of operations

Region
South West - Griffith
Suites 7-8, Level 1 Griffith City Plaza, 130-140 Banna Avenue
GRIFFITH NSW 2680
Phone: (02) 6969 0700
Fax: (02) 6969 0710
PO Box 397 GRIFFITH
NSW 2680

Environment Protection Licence



Licence - 4651

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Environment Protection Licence

Licence - 4651



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Environment Protection Licence

Licence - 4651



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 4651

The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

MURRUMBIDGEE IRRIGATION LIMITED
LOCKED BAG 6010
GRIFFITH NSW 2680

subject to the conditions which follow.

Environment Protection Licence

Licence - 4651



1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Irrigated Agriculture	Irrigated agriculture	> 100000 ha of existing area of operations

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
MURRUMBIDGEE IRRIGATION AREA & DISTRICTS
HANWOOD
NSW 2680

A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity
Application of herbicides to alligator weed (Alantharas Philoxeroides) at:
Barren Box Swamp and downstream in Lower Mirrool Creek and Wah Wah irrigation channels

A4 Information supplied to the EPA

A4.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:
a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998;
and

Environment Protection Licence

Licence - 4651



b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
4	Discharge to waters Environmental monitoring Volume monitoring	Discharge to waters Environmental monitoring Volume monitoring	Lagoon Drain from Gogelderie Main Southern labelled 'LAG' on map titled "Key Infrastructure & Water Quality Sites of the MIA" dated 18 January 2013 and on EPA file LIC07/2304-03.
5	Discharge to waters Environmental monitoring Volume monitoring	Discharge to waters Environmental monitoring Volume monitoring	Gogeldrie Main Southern Drain at River Road labelled 'GMSRR' on map titled "Key Infrastructure & Water Quality Sites of the MIA" dated 18 January 2013 and on EPA file LIC07/2304-03.
6	Discharge to waters Environmental monitoring Volume monitoring	Discharge to waters Environmental monitoring Volume monitoring	Yanco Main Southern Drain labelled 'YMS' on map titled "Key Infrastructure & Water Quality Sites of the MIA" dated 18 January 2013 and on EPA file LIC07/2304-03.
7	Discharge to waters Environmental monitoring Volume monitoring	Discharge to waters Environmental monitoring Volume monitoring	Cudgel Creek downstream of Roaches Escape labelled 'ROCUDG' on map titled "Key Infrastructure & Water Quality Sites of the MIA" dated 18 January 2013 and on EPA file LIC07/2304-03.
15	Discharge to waters Environmental monitoring Volume monitoring	Discharge to waters Environmental monitoring Volume monitoring	Mirrool Creek Floodway labelled 'MIRFLD' on map titled "Key Infrastructure & Water Quality Sites of the MIA" dated 18 January 2013 and on EPA file LIC07/2304-03.

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3 Limit Conditions

L1 Pollution of waters

L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Volume and mass limits

L2.1 For each discharge point or utilisation area specified below (by a point number), the volume/mass of:

- a) liquids discharged to water; or;
- b) solids or liquids applied to the area;

must not exceed the volume/mass limit specified for that discharge point or area.

Point	Unit of Measure	Volume/Mass Limit
15	-	-

L3 Potentially offensive odour

L3.1 No condition in this licence identifies a potentially offensive odour for the purposes of section 129 of the Protection of the Environment Operations Act 1997.

Note: Section 129 of the Protection of the Environment Operations Act 1997 provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.
This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

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O3 Processes and management

Licensee to maintain a chemical contingency plan

O3.1 The licensee must maintain a chemical contingency plan.

The chemical contingency plan must include the following information:

- a) reproduce Schedule 1 to this licence, which lists certain chemicals (the “Scheduled Chemicals”) and stipulates the notification and action levels in relation to each Scheduled Chemical;
- b) describes in detail, in relation to each Scheduled Chemical what actions the licensee will take in the event that the relevant notification level is exceeded in samples of irrigation waste water;
- c) describes in detail, in relation to each Scheduled Chemical what actions the licensee will take in the event that the relevant action level is exceeded in samples of irrigation waste water;
- d) describes in details, procedures and action, consistent with the State Disaster Plan (DISPLAN) requirements, that the licensee will implement to deal with a chemical spill or similar incident.

O3.2 Without limiting the generality of condition O3.1, the chemical contingency plan must include the following information:

- (a) details of the enhanced level of investigation to be undertaken upon exceedance of the notification level for any Scheduled Chemical;
- (b) details of the process by which the EPA will be notified of any exceedance of the notification level for any Scheduled Chemical;
- (c) details of the proposed public notification process to increase irrigator awareness of the existence of any exceedance of a notification and/ or action level;
- (d) details of the proposed emergency measures to be used to immediately bring about a reduction in the level of any Scheduled Chemical in irrigation waste water whenever an exceedance of a notification and/ or action level occurs; and
- (e) details of the mechanisms proposed to be used to restrict the discharge or irrigation of waste water should such direction be received from the EPA.

O3.3 The licensee must update and submit the updated chemical contingency plan to the EPA for approval if any significant changes are made to the plan by the licensee.

O3.4 The licensee must comply with the terms of the updated chemical contingency plan once it has been approved by the EPA.

Licensee to maintain a chemical control plan

O3.5 The licensee must maintain a chemical control plan.

The chemical control plan must include the following:

- (a) details of all proposed chemical applications within the premises, including location, date, types and volumes of chemicals to be used, method of application and target species;
- (b) details of training undertaken by the employees involved in chemical application;
- (c) details of those mechanisms proposed to notify any occupier or user of treated land and waters of such treatment;

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- (d) details of the manner in which used chemical containers are to be disposed of such that no pollution of waters occurs;
- (e) details of those measures to be employed to ensure that no pollution of waters occurs as a result of the washdown, service or repair of spray vehicles and equipment;
- (f) details of facilities used to store chemicals, including measures designed to contain spillages;
- (g) an assessment of alternative methods of chemical control for target species and justification for partial or total reliance upon chemical control.

- O3.6 Weed infestations may be treated only in accordance with best management practices as specified in Guidelines for the Use of Herbicides in or Near Water (Australian Government Printing Service, 1985) and any supplementary best management practices approved by the EPA.
- O3.7 The licensee must update and submit the updated chemical control plan to the EPA if significant changes are made to the plan by the licensee.
- O3.8 The licensee must comply with the terms of the updated chemical control plan once it has been approved by the EPA.

Storage of chemicals

- O3.9 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.

Notification of intention to apply herbicides in or near water

- O3.10 When applying herbicide(s) in or near water in a manner that is likely to cause those waters to become a risk to human health or of harm to the environment, the licensee must take all reasonable steps to warn users of waters in the vicinity of the herbicide(s) application about any such risks. The licensee must erect a sign adjacent to affected waters that at a minimum:
- (a) is not removed until the water is safe for use;
 - (b) is maintained to ensure it remains in place and is visible to the public until the water is safe for use;
 - and
 - (c) states at a minimum, in legible English, and in any other language as may be considered reasonably necessary:

WARNING

Water may contain dangerous chemicals

The public is advised not to use, drink or swim until further notice.

For further information contact Murrumbidgee Irrigation Limited on 02 6962 0200

- O3.11 In addition, the licensee must at least 14 days prior to the application of the herbicide(s) giving rise to the situation described at condition O3.10, give written notification to any occupier of the waters or any occupier of land adjacent to the waters to be effected by the herbicide(s) application, of the licensee's intention to apply herbicide(s), which includes at a minimum the following details:
- a) what herbicide(s) is to be applied,
 - b) when the herbicide(s) is to be applied,
 - c) a warning not to use, drink or swim in the water until further notice,
 - d) that further information can be obtained from the Licensee, and
 - e) the licensee's name and contact phone number.

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- O3.12 It is for the licensee to determine what other reasonable steps it may need to take to warn other water users of any risks to human health or of harm to the environment which may result from the application of herbicide(s) in or near waters and to prevent such injury or harm from occurring.

O4 Waste management

- O4.1 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.

O5 Other operating conditions

Discharges to surface waters and ground waters

- O5.1 The licensee is permitted to discharge irrigation waste water:
- (a) to surface waters within the premises; and
 - (b) at the authorised discharge points to surface waters outside of the premises.
- O5.2 The licensee is permitted to discharge irrigation waste water from the premises to ground waters in or outside of the premises.
- O5.3 The licensee is permitted to discharge stormwater runoff to surface waters outside the premises.
- O5.4 Nothing in this licence authorises the pollution of waters unless the pollution occurs:
- (a) despite the exercise of due diligence by the licensee; and
 - (b) despite compliance with this licence.

5 Monitoring and Recording Conditions

M1 Monitoring records

- M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.
- M1.2 All records required to be kept by this licence must be:
- a) in a legible form, or in a form that can readily be reduced to a legible form;
 - b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 - c) produced in a legible form to any authorised officer of the EPA who asks to see them.
- M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:
- a) the date(s) on which the sample was taken;
 - b) the time(s) at which the sample was collected;

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- c) the point at which the sample was taken; and
- d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Water and/ or Land Monitoring Requirements

POINT 4,5,6,7,15

Pollutant	Units of measure	Frequency	Sampling Method
Atrazine	micrograms per litre	Special Frequency 1	Representative sample
Chlorpyrifos	micrograms per litre	Special Frequency 1	Representative sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Representative sample
Diazinon	micrograms per litre	Special Frequency 1	Representative sample
Diuron	micrograms per litre	Special Frequency 1	Representative sample
Endosulfan	micrograms per litre	Special Frequency 2	Representative sample
Flow	megalitres per day	Special Frequency 1	Representative sample
Malathion	micrograms per litre	Special Frequency 1	Representative sample
Metolachlor	micrograms per litre	Special Frequency 1	Representative sample
Molinate	micrograms per litre	Special Frequency 1	Representative sample
Nitrogen (total)	milligrams per litre	Special Frequency 1	Representative sample
Phosphorus (total)	milligrams per litre	Special Frequency 1	Representative sample
Simazine	micrograms per litre	Special Frequency 1	Representative sample
Thiobencarb	micrograms per litre	Special Frequency 1	Representative sample
Trifluralin	micrograms per litre	Special Frequency 1	Representative sample
Turbidity	nephelometric turbidity units	Special Frequency 1	Representative sample

POINT 15

Pollutant	Units of measure	Frequency	Sampling Method
Aluminium	milligrams per litre	Special Frequency 1	Representative sample
Boron	milligrams per litre	Special Frequency 1	Representative sample
Cadmium	milligrams per litre	Special Frequency 1	Representative sample
Copper	milligrams per litre	Special Frequency 1	Representative sample
Dissolved Oxygen	milligrams per litre	Special Frequency 1	Representative sample
Iron	milligrams per litre	Special Frequency 1	Representative sample
Lead	milligrams per litre	Special Frequency 1	Representative sample
Mercury	milligrams per litre	Special Frequency 1	Representative sample

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Nickel	milligrams per litre	Special Frequency 1	Representative sample
pH	-	Special Frequency 1	Representative sample
Sulfur	milligrams per litre	Special Frequency 1	Representative sample
Zinc	milligrams per litre	Special Frequency 1	Representative sample

M2.3 For the purposes of the table(s) above Special Frequency 1 means the collection of samples as soon as practicable during discharge.

M2.4 For the purposes of the table(s) above Special Frequency 2 means the collection of samples as soon as practicable following a rainfall event greater than 15mm if the risk analysis indicates it is likely that pollution of waters with endosulfan is likely to have occurred.

M3 Testing methods - concentration limits

M3.1 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Recording of pollution complaints

M4.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.

M4.2 The record must include details of the following:

- the date and time of the complaint;
- the method by which the complaint was made;
- any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- the nature of the complaint;
- the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- if no action was taken by the licensee, the reasons why no action was taken.

M4.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M4.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M5 Telephone complaints line

M5.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.

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M5.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.

M5.3 The preceding two conditions do not apply until 3 months after:

- a) the date of the issue of this licence or
- b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

M6 Requirement to monitor volume or mass

M6.1 For each discharge point or utilisation area specified below, the licensee must monitor:

- a) the volume of liquids discharged to water or applied to the area;
- b) the mass of solids applied to the area;
- c) the mass of pollutants emitted to the air;

at the frequency and using the method and units of measure, specified below.

POINT 4,5,6,7

Frequency	Unit of Measure	Sampling Method
Continuous	megalitres per day	In line instrumentation

POINT 15

Frequency	Unit of Measure	Sampling Method
Continuous during discharge	megalitres per day	Estimate

M7 Other monitoring and recording conditions

M7.1 The licensee must maintain a written register that records the following details in relation to each herbicide(s) application in or near waters:

- (a) location of where the herbicide(s) was applied and the area of water (if any) covered by the application;
- (b) date of the herbicide(s) application;
- (c) target species treated;
- (d) name of the herbicide(s) applied, method of application and formulation/ mixing details of the herbicide(s);
- (e) the volume of herbicide(s) used;
- (f) the wind speed (m/s) and direction at the time of the herbicide(s) application;
- (g) the air temperature (degrees Celsius) at the time of the herbicide(s) application;
- (h) rainfall (mm) over the 24 hour period immediately prior to and following the herbicide(s) application;
- (i) name(s) of person(s) applying the herbicide(s) and their supervisor;
- (j) details of the manner in which used chemical containers have been disposed of;
- (k) details of mechanisms used, if any, to notify any occupier or user of treated land and waters of such treatment including as per condition O3.10;
- (l) the date and time of any query by any person in relation to the herbicide(s) application;
- (m) the method by which any such query was made;

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- (n) the name and contact details of the person making any such query;
- (o) the nature of any such query; and
- (p) any action taken by the licensee in relation to any such query.

In addition:

- (a) details must be entered into the register within 3 working days of the application of the herbicide(s) or in the case of a query, within 3 working days of the query being received by the licensee;
- (b) details must be kept on the register for at least 4 years after the herbicide(s) application to which they relate was undertaken;
- (c) the register must be held at the principal office of the licensee (or such other office as is notified in writing to the EPA by the licensee) and be available for inspection by any authorised officer of the EPA who asks to see it.

6 Reporting Conditions

R1 Annual return documents

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
- a) a Statement of Compliance; and
 - b) a Monitoring and Complaints Summary.
- At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.
- R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.
- R1.3 Where this licence is transferred from the licensee to a new licensee:
- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
 - b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and

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Complaints Summary must be signed by:

- a) the licence holder; or
- b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

R1.8 A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

R2 Notification of environmental harm

R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

- a) where this licence applies to premises, an event has occurred at the premises; or
- b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

- a) the cause, time and duration of the event;
- b) the type, volume and concentration of every pollutant discharged as a result of the event;
- c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
- d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;

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- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R4 Annual system performance report

R4.1 By 30 October each year, the licensee must submit to the EPA's Regional Manager South West an annual report in respect of the preceding financial year.

R4.2 The environmental management report must detail the environmental performance and impacts of the works and infrastructure owned or controlled by the licensee and, in particular, the quality of irrigation waste water discharged from such works and infrastructure.

R4.3 The annual report must contain the following information in relation to the period to which it relates:

- (a) the volume of all inflows of water to the premises, the volume of all surface water discharges from the premises and an estimate of all accessions of water to ground water in or outside of the premises;
- (b) results of all monitoring required by this licence and an assessment of irrigation waste water quality trends;
- (c) a summary of all events which have been reported under conditions within R2, R3 and R5; and
- (d) any changes the licensee suggests should be made to this licence or the chemical contingency plan and/ or the chemical control plan.

R5 Other reporting conditions

Reporting exceedance of chemical contingency plan levels

R5.1 If the licensee, or any of its employees, servants or agents becomes aware that any:

- (a) notification level; or
- (b) action level

set out in relation to a chemical contingency plan and/or Schedule 1 to this licence has been exceeded, the licensee must as soon as possible and, in any event, within 24 hours, notify the EPA by email to: southwest.region@epa.nsw.gov.au

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

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G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

8 Special Conditions

E1 Conditions of supply

- E1.1 The licensee must not supply water to a customer unless the supply is conditional upon the following:
- (a) that the customer must comply with any reasonable direction of the licensee for the purpose of reducing the impact of pollutants on receiving waters;
 - (b) that the customer will grant the licensee all reasonable access to the customer's premises and provide the licensee with all reasonable assistance for the purposes of the licensee determining whether the customer is complying with (a) above; and
 - (c) that if the customer fails to comply with the requirements set out in paragraphs (a) and (b) above, the licensee may deny the customer any services provided by the licensee.
- E1.2 The licensee must monitor compliance by customers with the conditions of the supply of water to the customer by the licensee as required for the licensee to meet its obligations under this licence.
- E1.3 The licensee must produce to the EPA a copy of any contract or details of any arrangement it enters into with a customer in relation to any supply of drainage services within 7 days of receipt of a written request from the EPA that it do so.

E2 Discontinuation of the provision of services

- E2.1 In the event that a customer fails to comply with any condition of the supply of water to a customer required by this licence that has caused, is causing or is likely to cause harm to the environment, whether on or off the premises, the licensee must take appropriate action within (7) days to prevent the continuance of the non compliance.
- E2.2 In condition E2.1, "appropriate action" includes the licensee doing one or more of the following:
- (a) sending a letter to the relevant customer containing a warning that the licensee will discontinue the supply of water if the relevant non compliance with the condition of supply is not rectified by a specified date;
 - (b) refusal to or discontinuance of the supply of water to a customer;
 - (c) causing such works to be conducted such as to prevent the continuance of the non compliance by the customer;
 - (d) notifying the customer in writing that the licensee no longer consents to the discharge of any substances into a work owned by the licensee.

Note: The purpose of conditions E2.1 and E2.2 is to ensure that the licensee requires customers to take such steps as are necessary to ensure that the licensee is able to meet its obligations under this licence.

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E3 Schedule 1 - Chemicals to be monitored and the environmental guideline, notification level and action level for each chemical.

E3.1 Environmental guideline values, notification levels and action levels.

Chemical	1. Environmental Guideline (ug/L)	2. Notification Level (ug/L)	Action Level (ug/L)
Atrazine	2	13	45
Chlorpyrifos	0.001	0.01	0.11
Diazinon	0.0006	0.01	0.2
Diuron	8	1*	5*
Endosulfan	0.01	0.03	0.2
Malathion	0.07	0.05	0.2
Metolachlor	8	0.02	0.1
Molinate	2.5	3.4	14
Simazine	10	3.2	11
Thiobencarb	1	2.8	4.6
Triflurafin	0.1	2.6	4.4

Note:

* Asterisks note those figures for which 99% protection levels are substituted for the 95% TV for “slightly-moderately disturbed” systems (99% figures listed) and 95% listed instead of the 90% figures – due to bioaccumulation or potential toxicity.

1. Environmental Guideline – The “Environmental Guideline” remains in Schedule 1 for reference purposes only and has no bearing on current notification and action levels. The original notification and action levels were based on the 1992 ANZECC Guidelines for the protection of aquatic ecosystems. For most chemicals the notification level was equal to the ANZECC (1992) guideline value and the action level was set at five times this level – molinate and endosulfan were exceptions.

2. Notification Level – This is equivalent to the 95% “trigger value” in Table 3.4.1 of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000). This value can be interpreted as the concentration at which 95% of all species will be protected – with 50% confidence. The 95% protection levels relate to laboratory NOEC (no-observed-effect concentration) data and hence do not mean that 95% level of protection results in loss of 5% of species.

3. Action Level – this is equivalent to the 90% “trigger value” in Table 3.4.1 of the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000). This value can be interpreted as the concentration at which 90% of all species will be protected – with 50% confidence. The 90% protection levels relate to laboratory NOEC (no-observed-effect concentration) data and hence do not mean that a 90% level of protection results in loss of 10% of species.

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Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

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flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence



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TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Craig Bretherton

Environment Protection Authority

(By Delegation)

Date of this edition: 19-October-2000

Environment Protection Licence

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End Notes

- 1 Licence varied by notice 1030202, issued on 19-Nov-2003, which came into effect on 14-Dec-2003.
- 2 Licence varied by notice 1036060, issued on 01-Jul-2004, which came into effect on 01-Jul-2004.
- 3 Licence varied by notice 1050134, issued on 24-Aug-2005, which came into effect on 18-Sep-2005.
- 4 Licence varied by notice 1071393, issued on 26-Mar-2007, which came into effect on 26-Mar-2007.
- 5 Licence varied by notice 1079907, issued on 26-Nov-2007, which came into effect on 26-Nov-2007.
- 6 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 7 Licence varied by notice 1095398, issued on 30-Jun-2010, which came into effect on 30-Jun-2010.
- 8 Licence varied by notice 1509750 issued on 24-Jan-2013
- 9 Licence varied by notice 1513360 issued on 02-Jul-2013
- 10 Licence varied by notice 1522534 issued on 12-Jun-2014

