



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Westpork Pty Ltd

**Licence:** L4409/1988/8

**Registered office:** Westpork Pty Ltd  
 Unit 1/7 Foundry Street  
 MAYLANDS WA 6051

**ACN:** 009 148 789

**Premises address:** Westport Gingin Breeder Farm  
 Lot 8 on Diagram 68836 Boonanarring Road  
 BOONANARRING WA 6503  
 Being Lot 8 on Diagram 68836 as depicted in Schedule 1

**Issue date:** Thursday, 1 October 2015

**Commencement date:** Monday, 5 October 2015

**Expiry date:** Sunday, 4 October 2020

**Prescribed premises category**

Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
2	Intensive Piggery: premises on which pigs are fed, watered and housed in pens.	1000 animals or more	No more than 5,500 animals

**Conditions**

This Licence is subject to the conditions set out in the attached pages.

.....  
 Ed Schuller  
 Date signed: 1 October 2015  
 Senior Manager - Industry Regulation (Process Industries)  
 Officer delegated under section 20  
 of the *Environmental Protection Act 1986*



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## Introduction

This Introduction is not part of the Licence conditions.

### DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

### Licence requirements

This Licence is issued under Part V of the Act. Conditions contained within the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.



Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

### Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

### Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

### Premises description and Licence summary

Westpork Gingin Breeder Farm is located on Lot 8 in Boonanarring, which is approximately 70km north east of Perth. The piggery has been operating since 1987 and licensed with Westpork since 1988. The Boonanarring Reserve is a crown reserve (#539) located 1.3km north east of the property boundary on Lot 11350 and owned by the Department for Planning and Infrastructure. The closest receptor is a farm residence, located at 570m south of the premise boundary and approximately 1km south of the anaerobic wastewater treatment ponds. The next closest is resident is 1.4km to the north of the property.

The piggery currently houses an average of 5,130 animals at any one time, based on the number of sows. Operations include the breeding of pigs up to 3 weeks of age, at which time they are transferred off site to Westpork's grower operations (Westpork Mindarra Farm Licence L5724/1993/11). There are 16 sheds used for the intensive rearing of pigs. Wastewater from the sheds is directed to a sealed concrete channel prior to treatment in one of two anaerobic ponds. One pond is clay lined and the other anaerobic pond is HDPE lined. The wastewater is then transferred to a facultative pond and final storage is an evaporative pond, both of which are clay lined.

This Licence is the successor to licence L4409/1988/7 and includes an update to the current licence template. The licences and works approvals issued for the Premises are:

Instrument log		
Instrument	Issued	Description
L4409/1988/1	06/10/2000	New application
L4409/1988/2	06/10/2001	Licence re-issue
W3566/1988/1	06/03/2002	Works approval
L4409/1988/3	06/10/2002	Licence re-issue
L4409/1988/4	13/10/2003	Licence re-issue
L4409/1988/5	06/10/2004	Licence re-issue
L4409/1988/6	06/10/2005	Licence re-issue
L4409/1988/7	05/10/2010	Licence re-issue
L4409/1988/7	31/05/2013	Licence amendment – conversion to REFIRE format
W5854/2015/1	18/09/2015	Works Approval to construct a sludge drying bed
L4490/1988/8	01/10/2015	Licence reissue

### Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

### END OF INTRODUCTION



## Licence conditions

### 1 General

#### 1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

**'Act'** means the *Environmental Protection Act 1986*;

**'AHD'** and **'mAHD'** means the Australian height datum and metres at the Australian height datum respectively.

**'annual period'** means the inclusive period from 1 July until 30 June in the following year;

**'AS/NZS 5667.1'** means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

**'AS/NZS 5667.10'** means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters*;

**'AS/NZS 5667.11'** means the Australian Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*;

**'averaging period'** means the time over which a limit is measured or a monitoring result is obtained;

**'carcasses'** means the dead bodies of animals (pigs);

**'CEO'** means Chief Executive Officer of the Department of Environment Regulation;

**'CEO'** for the purpose of correspondence means;

Chief Executive Officer  
Department Administering the Environment Protection Act 1986  
Locked Bag 33  
CLOISTERS SQUARE WA 6850  
Email: info@der.wa.gov.au;

**'freeboard'** means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point;

**'Licence'** means this Licence numbered L4409/1988/8 and issued under the Act;

**'Licensee'** means the person or organisation named as Licensee on page 1 of the Licence;

**'mBGL'** means metres below ground level;

**'NATA'** means the National Association of Testing Authorities, Australia;

**'NATA accredited'** means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;



**'Premises'** means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

**'quarterly'** means the 4 inclusive periods from 1 July to 30 September, 1 October to 31 December, 1 January to 31 March and 1 April till 30 June in the following year,;

**'Schedule 1'** means Schedule 1 of this Licence unless otherwise stated;

**'Schedule 2'** means Schedule 2 of this Licence unless otherwise stated;

**'six monthly'** means the 2 inclusive periods from 1 July to 31 December and 1 January to 30 June'

**'spot sample'** means a discrete sample representative at the time and place at which the sample is taken;

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.1.5 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

## **1.2 General conditions**

1.2.1 The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.

1.2.2 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.3 The Licensee shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.<sup>1</sup>

Note1: *The Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

## **1.3 Premises operation**

1.3.1 The Licensee shall ensure that all wastewaters from piggery operations including wash down water, by-products wastewater and contaminated run-off are directed to a wastewater treatment system.

1.3.2 The Licensee shall ensure that wastewater and treated wastewater is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.2.



Table 1.3.2: Containment infrastructure		
Storage vessel or compound	Material	Infrastructure requirements
Anaerobic pond 1	Wastewater	Clay lined
Anaerobic pond 2		HDPE lined to achieve a permeability of at least $<10^{-9}$ m/s or equivalent
Facultative pond	Wastewater	Clay lined
Evaporation pond	Treated Wastewater	
Flush Tanks	Treated Wastewater	Sealed concrete tanks

- 1.3.3 The Licensee shall manage the wastewater treatment ponds such that:
- a minimum top of embankment freeboard of 500mm is maintained;
  - storm water runoff is prevented from causing the erosion of outer pond embankments;
  - overtopping of the wastewater treatment ponds does not occur except as a result of an extreme rainfall event (greater than 1 in 20 year event of 72 hours duration);
  - vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments;
  - trapped overflows shall be maintained between treatment ponds to prevent carry-over of surface floating matter to subsequent ponds; and
  - a water cover is maintained over the base area of all ponds to avoid shrinkage cracking.

- 1.3.4 The Licensee shall ensure that where wastes produced on the Premises are not taken off-site for lawful use or disposal, they are only subject to the on-site processes described in Table 1.3.4 and in accordance with the process requirements in that Table.

Table 1.3.4: Processing of materials		
Waste type	Process	Process requirements
Treated wastewater	Evaporation	None
	Re-used for flushing of piggery	None
Carcasses	On-site burial	Waste shall be covered with at least 500mm of soil immediately upon deposit.

## 2 Monitoring

### 2.1 General monitoring

- 2.1.1 The licensee shall ensure that:
- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
  - all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
  - all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
  - all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.
- 2.1.2 The Licensee shall ensure that :
- quarterly monitoring is undertaken at least 45 days apart; and
  - six monthly monitoring is undertaken at least 5 months apart.
- 2.1.3 The Licensee shall record production or throughput data and any other process parameters relevant to any non-continuous monitoring undertaken.



- 2.1.4 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.
- 2.1.5 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

## 2.2 Monitoring of inputs and outputs

- 2.2.1 The Licensee shall undertake the monitoring in Table 2.2.1 according to the specifications in that table.

**Table 2.2.1: Monitoring of inputs and outputs**

Input / Output	Parameter	Units	Averaging period	Frequency
Wastewater	Discharged to wastewater treatment system	m <sup>3</sup>	Cumulative volume <sup>1</sup>	Quarterly
Treated Wastewater	Recycled for flushing or wash down	m <sup>3</sup>	Cumulative volume	
	Removed off-site for irrigation	m <sup>3</sup>		

Note1: The volume of wastewater discharged to the ponds may be calculated using the known volume of water used in the piggery, and the volume recycled and irrigated over each monitoring interval.

## 2.3 Process monitoring

- 2.3.1 The Licensee shall undertake the monitoring in Table 2.3.1 according to the specifications in that table.

**Table 2.3.1: Process Monitoring**

Monitoring point reference	Parameter	Units	Averaging period	Frequency
Evaporation pond (water quality prior to removal off-site for irrigation)	pH	-	Spot sample	Six monthly (only required when treated wastewater is sent off-site for irrigation purposes)
	Total Dissolved Solids (TDS)	mg/L		
	Total Nitrogen (TN)	mg/L		
	Total Phosphorus (TP)	mg/L		

## 2.4 Ambient environmental quality monitoring

- 2.4.1 The Licensee shall undertake the monitoring in Table 2.4.1 according to the specifications in that table.

**Table 2.4.1: Monitoring of ambient groundwater quality**

Monitoring point reference	Parameter	Units	Averaging period	Frequency
Piggery production bore, MB1, MB2 & MB3	pH	-	Spot sample	Six monthly
	Total Dissolved Solids (TDS)	mg/L		
	Total Nitrogen (TN)	mg/L		
	Total Phosphorus (TP)	mg/L		
	Standing water level (SWL)	m(AHD) & mBGL		



### 3 Information

#### 3.1 Records

- 3.1.1 All information and records required by the Licence shall:
- (a) be legible;
  - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
  - (c) except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
  - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
    - (i) off-site environmental effects; or
    - (ii) matters which affect the condition of the land or waters.
- 3.1.2 The Licensee shall ensure that:
- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
  - (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.
- 3.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.
- 3.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

#### 3.2 Reporting

- 3.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 28 calendar days after the end of the annual period. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table.

Table 3.2.1: Annual environmental report		
Condition or table	Parameter	Format or form <sup>1</sup>
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken	None specified
3.1.3	Compliance	AACR
3.1.4	Complaints summary	None specified
Table 2.2.1	Cumulative volumes of wastewater discharged to the wastewater treatment system, treated wastewater recycled for flushing or wash down of piggery and treated wastewater removed off-site for irrigation purposes.	None specified
Table 2.3.1	Process monitoring of treated wastewater quality prior to being sent off-site for irrigation purposes: pH, TDS, TN and TP	LR1
Table 2.4.1	Ambient groundwater quality: pH, TDS, TN, TP and SWL	None specified
-	Number of animals	Tabular format. Monthly maximum including annual total

Note 1: Forms are in Schedule 2





- 3.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:
- (a) any relevant process, production or operational data recorded under Condition 3.1.3; and
  - (b) an assessment of the information contained within the report against previous monitoring results and Licence limits

### 3.3 Notification

- 3.3.1 The Licensee shall ensure that the parameters listed in Table 3.3.1 are notified to the CEO in accordance with the notification requirements of the table.

<b>Table 3.3.1: Notification requirements</b>			
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Notification requirement<sup>1</sup></b>	<b>Format or form</b>
-	The desludging of any wastewater ponds at the premises	No less than 14 days prior.	None specified

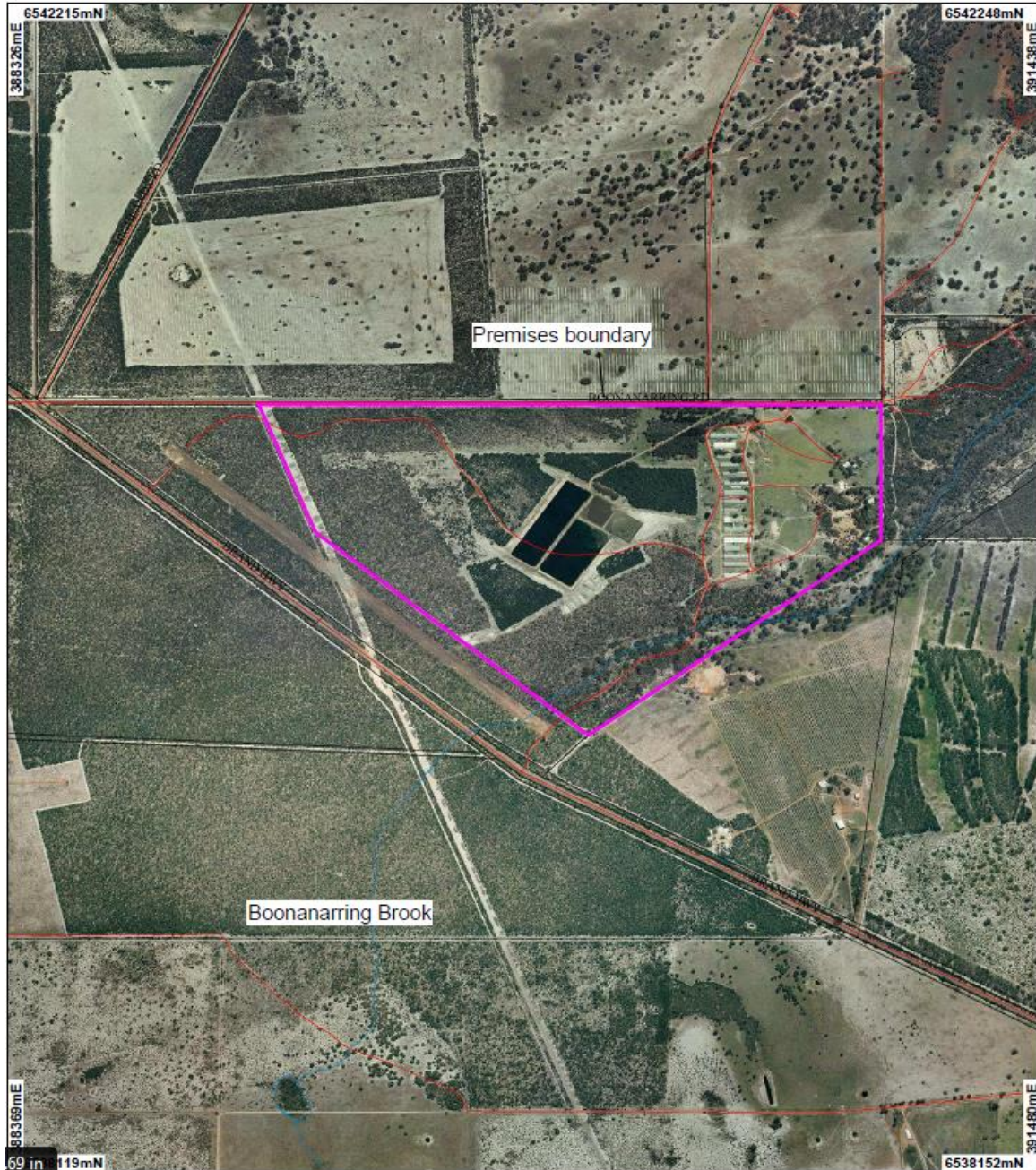
Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act



## Schedule 1: Maps

### Premises map

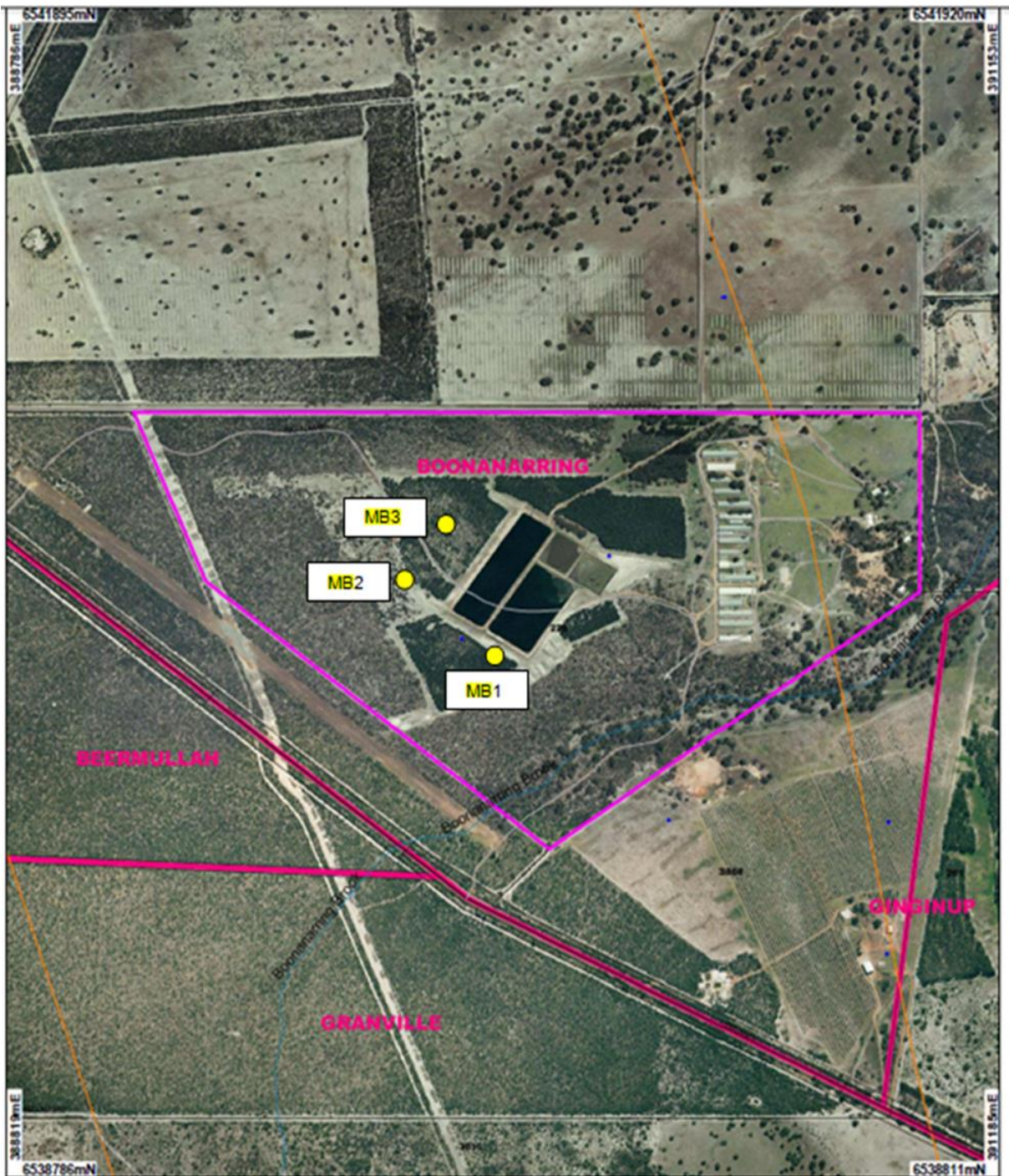
The Premises is shown in the map below. The pink line depicts the Premises boundary.





### Map of monitoring locations

The location of the monitoring points defined in Table 2.4.1 is shown below.





## Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

### ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

#### SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name: Trading as:	ABN:
Reporting period:  _____ to _____	

#### STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)

Yes  Please proceed to Section C

No  Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



## **SECTION B**

### **DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.**

Please use a separate page for each Licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing Date _____	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



## SECTION C

### SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) may only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

SEAL (if signing under seal)



Licence: L4409/1988/8  
 Form: LR1  
 Name: Monitoring of emission to land

Licensee: Westpork Pty Ltd  
 Period :

<b>Form LR1: Process monitoring - water quality prior to removal off-site for irrigation</b>					
<b>Emission point</b>	<b>Parameter</b>	<b>Result<sup>1</sup></b>	<b>Averaging period</b>	<b>Method</b>	<b>Sample date &amp; times</b>
Evaporation pond	pH	-	Spot sample		
	Total Dissolved Solids	mg/L	Spot sample		
	Total Nitrogen	mg/L	Spot sample		
	Total Phosphorus	mg/L	Spot sample		

Note 1: All units are referenced to STP dry

Signed on behalf of Westpork Pty Ltd .....Date: .....



# Decision Document

## *Environmental Protection Act 1986, Part V*

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**Proponent:** **Westpork Pty Ltd**

**Licence:** **L4409/1988/8**

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**Registered office:** Westpork Pty Ltd  
Unit 1/7 Foundry Street  
MAYLANDS WA 6051

**ACN:** 009 148 789

**Premises address:** Westpork Gingin Breeder Farm  
Lot 8 on Diagram 68836 Boonanarring Road  
BOONANARRING WA 6503  
Being Lot 8 on Diagram 68836

**Issue date:** Thursday, 1 October 2015

**Commencement date:** Monday, 5 October 2015

**Expiry date:** Sunday, 4 October 2020

### **Decision**

Based on the assessment detailed in this document the Department of Environment Regulation (DER) has decided to issue a licence. DER considers that in reaching this decision it has taken into account all relevant considerations.

Decision Document prepared by: Nanette Schapel  
Licensing Officer

Decision Document authorised by: Jonathan Bailes  
Delegated Officer





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### 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.



## 2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/>	New Licence <input checked="" type="checkbox"/>
	Licence amendment <input type="checkbox"/>	Works Approval amendment <input type="checkbox"/>
Activities that cause the premises to become prescribed premises	<b>Category number(s)</b>	<b>Assessed design capacity</b>
	2	5,500 animals
Application verified	Date: 06/07/2015	
Application fee paid	Date: 16/07/2015	
Works Approval has been complied with	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Compliance Certificate received	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Commercial-in-confidence claim	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Environmental Protection (Swan Coastal Plains Lakes) Policy 1992		
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
The EPP (SCPL) Policy 1992 requires that any lakes within the Swan Coastal Plain shall not be degraded or destroyed by activities nearby. The Westpork Gingin Breeder Farm is located 1.7 km east of EPP Lakes (see Appendix A) and it is considered unlikely that piggery operations will impact on lake ecology		



### 3 Executive summary of proposal and assessment

Westpork Gingin Breeder Farm is located on Lot 8 in Boonanarring, which is approximately 70km north east of Perth. The piggery has been operating since 1987 and licensed with Westpork since 1988. The Boonanarring Reserve is a crown reserve (#539) located 1.3km north east of the property boundary on Lot 11350 and owned by the Department for Planning and Infrastructure. The closest receptor is a farm residence, located at 570m south of the premise boundary and approximately 1km south of the anaerobic wastewater treatment ponds. The next closest is resident is 1.4km to the north of the property.

#### *Hydrogeology and surface Water:*

While there is no detailed hydrogeological data regarding groundwater at the site, the Department of Water's 2001 Historical Maximum Groundwater Contours indicate that the groundwater is at 50 to 60m depth. In March 2014, EnviroAg Australia provided a desktop assessment of bore drill log records that were carried out in the location of the wastewater treatment pond system prior to the ponds becoming operational. This assessment notes that the site is overlaid by varying bands of sands to a depth of 6m, and the deeper soils include sand and clays to a depth of 21m underlain by clay with sand bands to a depth of 50m. While small amounts of perched groundwater have been located in the upper sand layers, the underlying clay layers are relatively impermeable and act as a confining layer.

The current licence requires Westpork to monitor the quality of groundwater every six months from three onsite bores. These bores were placed into the 6m deep sands overlying the clays and Westpork reported that the bores have been dry since 2010. According to the advice provided by EnviroAg Australia in March 2014, the monitoring bores have not recorded any water due to the presence of a pine forest which surrounds the effluent ponds where the roots from the mature pine trees have exhausted soil water in the sands, causing a water deficit.

The nearest surface water is the Boonanarring Brook which runs across the Premises on the south eastern edge of the property. This is an ephemeral brook where no water flow has been observed by the Licensee. The brook is located 280m away from the closest effluent pond. A section of the Boonanarring Brook on an adjacent property is mapped as a geomorphic wetland and Ecologically Sensitive Area (see Appendix A). The land between the brook and the wastewater treatment pond system is slightly up-gradient and well vegetated (see Appendix B). Another nearby surface water body is the Wallering Brook; both the Boonanarring and Wallering Brooks feed into the Gingin Brook.

#### *Operations:*

The piggery currently houses an average of 5,130 animals at any one time, based on the number of sows. Operations include the breeding of pigs up to three weeks of age, at which time they are transferred off site to Westpork's grower operations (Westpork Mindarra Farm Licence L5724/1993/11). There are 16 sheds used for the intensive rearing of pigs.

#### *Wastewater treatment system:*

Following flushing of the sheds, the wastewater is directed to a sealed concrete channel prior to treatment in one of two anaerobic ponds. One pond is clay lined and the other anaerobic pond is HDPE lined. The wastewater is then transferred to a facultative pond and final storage is an evaporative pond, both of which are clay lined.

The amount of wastewater discharged to the treatment system is approximately 160,000m<sup>3</sup> per annum, based on the Annual Environmental report for the 2014-2015 reporting period. Treated wastewater is used to flush the sheds daily, which amounts to 77,744m<sup>3</sup> per annum. The piggery operated for several years where treated wastewater from the effluent ponds was used to irrigate bluegum trees on a neighbouring property. In 1989 Westpork constructed a wastewater treatment system and the current licence requires the Licensee to monitor the quality and quantity of the wastewater to be used for irrigation. Due to efficiency measures, there has been insufficient wastewater in the ponds to allow irrigation which has not occurred since the July-September monitoring period in 2014.



*Current Works Approval:*

A works approval (W5854/2015/1) was issued on 18 September 2015 to construct a sludge drying bed. This will allow sludge to be removed from the HDPE lined anaerobic pond to improve the efficiency of the pond. Desludging is expected to occur twice a year and only during the summer months when evaporation is high.



## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.3	<p><b>Operations</b></p> <p><u>Emission Description</u> <i>Emission:</i> Stormwater contaminated with nutrient rich wastewater from on-site operations.</p> <p><i>Impact:</i> There is the potential for stormwater to become contaminated by on site processes and impact on the Boonanarring Brook drainage line, located 280m from the effluent system.</p> <p><i>Controls:</i> The pig sheds are enclosed to prevent entry of stormwater. The area surrounding the wastewater ponds is contoured with diversion channels to divert stormwater away from the wastewater treatment system. Westpork has an Environmental Procedures Manual in place which includes daily and periodic management measures to be taken during desludging operations.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> Current licence Condition 1.2.3 requires the operator to keep uncontaminated stormwater away from contaminated stormwater.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	L4409/1988/7  <i>Supporting Information and Environmental Procedures Manual for the construction and maintenance of Drying Beds</i> (FSA Consulting, Revised February 2015)



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	L1.3.1 L1.3.2 L1.3.3 L1.3.4	<p><b>Operations</b></p> <p><u>Emission Description</u> <i>Emission: Discharge of nutrient rich wastewater from the wastewater treatment system.</i></p> <p><i>Impact:</i> If wastewater overflows from the wastewater treatment system, including the proposed sludge drying bed, there is the potential for contamination of the nearby Boonanarring Brook drainage line, located 280m from the effluent system.</p> <p><i>Controls:</i> The area surrounding the wastewater ponds is contoured with diversion channels to divert stormwater. All piggery sheds are enclosed and wastewater is directed via a pull-plug system to underground channels which feeds into the wastewater into the treatment system.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u></p> <p>Condition 1.3.1 requires that all wastewater from operations are directed to a wastewater treatment system. Condition 1.3.2 ensures wastewater and treated wastewater is appropriately contained as per Table 1.3.2. Condition 1.3.3 requires a minimum freeboard of 500mm to be maintained on all effluent ponds. Condition 1.3.4 requires all carcasses buried on site to be covered with at least 500mm of soil immediately upon deposit.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	L4409/1988/7  <i>Supporting Information and Environmental Procedures Manual for the construction and maintenance of Drying Beds (FSA Consulting, Revised February 2015)</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Emissions to land including monitoring	L1.3.2 L2.2.1 L2.3.1 L3.2.1	<p><b>Operations</b></p> <p><u>Emissions Description:</u></p> <p><i>Emission:</i> Flushing of the pig sheds with treated wastewater and the irrigation of nutrient rich wastewater</p> <p><i>Impact:</i> Treated wastewater is used to flush the pig sheds daily and to irrigate bluegum trees on a nearby property. Treated wastewater can contain high levels of nutrients which can impact on nearby surface water bodies, including the Boonanarring Brook drainage line, located 280m from the effluent system.</p> <p><i>Controls:</i> Treated wastewater used for flushing is fed into an enclosed pull-plug system where the wastewater is collected in drains under the sheds and fed into the effluent treatment system. Due to efficiency measures, there has been insufficient wastewater in the wastewater treatment system for irrigation, which has not occurred since July-September monitoring period in 2014.</p> <p><u>Risk Assessment</u></p> <p><i>Consequence:</i> Insignificant <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u></p> <p>According to Condition L1.3.2, the flush tanks are sealed and constructed of concrete. Condition L2.2.1 requires the cumulative volume of all treated wastewater to be used for flushing, wash down water or removed off-site for irrigation to be measured on a quarterly basis. Condition L2.3.1 requires all treated wastewater to be monitored for pH, TDS, TN and TP prior to removal off-site for irrigation, where the frequency of monitoring is on a 6-months basis. Condition L3.2.1 requires the Licensee to provide an Annual Environmental Report which includes details of the monitoring of treated wastewater sent off site for irrigation purposes.</p>	L4409/1988/7  Supporting Information and Environmental Procedures Manual for the construction and maintenance of Drying Beds (FSA Consulting, Revised February 2015)



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low	
<b>Fugitive emissions</b>	L1.3.1 L1.3.2 L1.3.3 L2.4.1	<p><b>Operations</b></p> <p><u>Emission Description</u>  <i>Emission:</i> Wastewater seepage from the ponds.</p> <p><i>Impact:</i> There is the potential for seepage from the wastewater treatment system to contaminate underlying groundwater and nearby surface water drainage systems, including the Boonanarring Brook which is approximately 280m from the effluent system. This could impact on the ecology of the brook due to the addition of nutrients contained in the seepage. The naturally occurring clay soils provide a barrier to the underlying groundwater which is at a depth of approximately 55m.</p> <p><i>Controls:</i> The wastewater treatment system are located down gradient of the geomorphic wetland associated with the Boonanarring Brook (see Appendix A) where the intervening area between the brook and the pond system is well vegetated. Monitoring bores are available to monitor the shallow groundwater quality, although it is noted that these bores have been dry since 2010.</p> <p><u>Risk Assessment</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u>            Current licence condition 1.3.1 requires all wastewater to be directed to a wastewater treatment system. Condition 1.3.2 requires containment infrastructure to be lined. Condition 1.3.3 requires the wastewater treatment system to maintain a freeboard of 500mm, erosion of embankments by stormwater runoff is to be prevented, overtopping of the ponds is not to occur unless it is the result of an extreme rainfall event, vegetation and floating debris is not</p>	L4409/1988/7





DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>allowed to encroach on the embankments, trapped overflows are maintained between ponds, and a water cover is maintained over the ponds to protect the clay or synthetic liners. These conditions minimise the potential for seepage from the effluent ponds. Condition 2.4.1 requires six monthly monitoring of groundwater quality from the site production bore and there monitoring bores.</p> <p><u>Residual Risk</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Unlikely  <i>Risk Rating:</i> Moderate</p>	
<b>Odour</b>	L3.1.4 L3.2.1 L3.3.1	<p><b>Operations</b>  <u>Emission Description</u>  <i>Emission:</i> Odour emissions can occur from the anaerobic ponds and during desludging operations when the sludge is placed in the drying bed.</p> <p><i>Impact:</i> There is the potential for odour emissions from the anaerobic ponds and during desludging events to cause a nuisance impact on nearby odour sensitive residences, where the closest resident is located 570m south of the premises boundary and approximately 1,000m south of the proposed drying bed and anaerobic ponds. The next closest resident is 1.4km north of the property. The frequency of desludging is expected to occur twice a year during the summer months. Two unsubstantiated odour complaints were received by the Department in 2006 and 2008 but there have not been any recent complaints. Odour emissions are not expected to occur from the evaporation ponds during normal operating conditions.</p> <p><i>Controls:</i> When sludge is transferred to the proposed drying bed, it will have undergone some treatment/decomposition in the anaerobic pond. Inert organic material (sawdust and/or straw) will be available to spread over the sludge to further reduce the potential for odour emissions and, once the sludge has dried, it will be removed off site. Westpork intend to monitor potential sources of odour (Environmental Procedure Manual #9) and retain all records for a period of three years. The procedure requires the monitoring of odour emissions at the pond site and on the property boundary downwind of the ponds, where monitoring will occur at the</p>	<p>L4409/1988/7</p> <p>Supporting Information and Environmental Procedures Manual for the construction and maintenance of Drying Beds (FSA Consulting, Revised February 2015)</p> <p>Draft Guidance Statement, <i>Separation Distances</i>, Division 3, Part V, <i>Environmental Protection Act</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>beginning and at the end of desludging operations. If unacceptable odour emissions are detected, further management procedures will be implemented, which will be based on wind direction and height of the discharge point into the drying bed. If the problem can't be resolved, desludging will cease until conditions improve. Any complaints will be logged immediately in Westpork's Complaints Register, along with details and feedback from any complainants. If mitigation measures are not found to be effective, desludging will cease and new procedures implemented.</p> <p><u>Risk Assessment</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Possible  <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u>            Condition L3.1.4 requires the Licensee to implement a complaints management system along with actions taken in response to complaints. Condition L3.2.1 requires a summary of all complaints to be provided in the Annual Environmental Report. Condition L3.3.1 requires the Licensee to notify DER at least 14 days in advance of any desludging operations.</p> <p><u>Residual Risk</u>  <i>Consequence:</i> Minor  <i>Likelihood:</i> Possible  <i>Risk Rating:</i> Moderate</p>	1986, (DER, August 2015, DER2015/001526 )
Noise	N/A	<p><b>Operations</b>  <u>Emission Description</u>  <i>Emission:</i> Noise emissions from the piggery sheds</p> <p><i>Impact:</i> Noise emissions from the pig sheds can impact on nearby noise sensitive premises. The closest single residence is 775m south of the pig sheds. The piggery has been operating since 1987; during that period the Department has not received any complaints about noise emissions from the facility.</p>	<p><i>Environmental Protection (Noise) Regulations 1997</i></p> <p>L4409/1988/8</p>



<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L= Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
		<p><i>Controls:</i> The piggery sheds are enclosed.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Likely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Condition L3.1.4 requires the Licensee to implement a complaints management system along with actions taken in response to complaints. Condition L3.2.1 requires a summary of all complaints to be provided in the Annual Environmental Report. The Licensee is required to comply with the <i>Environmental Protection (Noise) Regulations 1997</i>.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Likely <i>Risk Rating:</i> Moderate</p>	
<b>Monitoring general</b>	L2.1.1 – L2.1.5	<b>Operations</b> General monitoring conditions are captured by licence conditions L2.1.1 – L2.1.5.	L4409/1988/8
<b>Licence Duration</b>	N/A	The assessment of operations is considered of moderate risk regarding the potential to impact on nearby residences and the surrounding environment. The licence will be issued for a period of five years.	L4409/1988/8



## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
27/07/2015	Application advertised in West Australian	No comments received	N/A

## 6 Risk Assessment

*Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management*

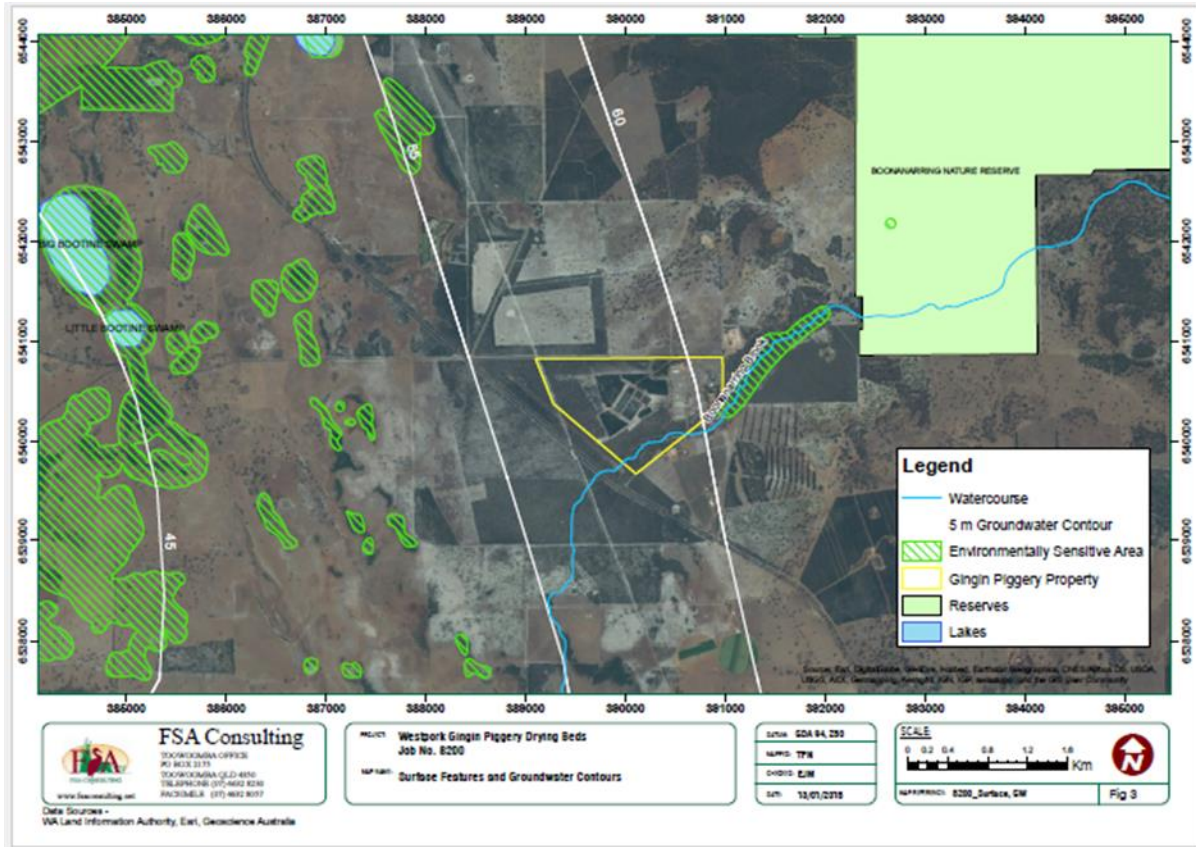
**Table 1: Emissions Risk Matrix**

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High



# Appendix A

**Map:** Westpork Gingin Breeder Farm showing groundwater contours, watercourses and the Boonanarring Nature Reserve





## Appendix B

**Map:** Westpork Gingin Breeder Farm showing topography contours and the Boonanarring Brook

