



Milne AgriGroup Pty Ltd
Mr Paul Burnie – Manager
Locked Bag 19
WELSHPOOL PB WA 6986

Dear Mr Burnie,

ENVIRONMENTAL PROTECTION ACT 1986: LICENCE GRANTED

Premises:

Mt Barker Chicken
Lake Matilda Road
KENDENUP WA 6323

Licence Number: L8031/2005/4

A licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment Regulation will advertise the issuing of this licence in the public notices section of *The West Australian* newspaper.

The licence includes attached conditions. Under section 58(1) of the Act, it is an offence to contravene a condition of a licence. This offence carries a penalty of up to \$125,000 and a daily penalty of up to \$25,000.

In accordance with section 102(1)(c) of the Act, you have 21 days to appeal the conditions of the licence. Under section 102(3)(a) of the Act, any other person may also appeal the conditions of the licence. To lodge an appeal contact the Office of the Appeals Convenor on 6467 5190 or by email at admin@appealsconvenor.wa.gov.au.

Where a licence is issued for more than one year it requires payment of an annual fee and will cease to have effect if the fee is unpaid. It is the occupier's responsibility to lodge a fee application and pay the annual fee in sufficient time to avoid incurring a late payment fee and for processing to be completed before the licence anniversary date.

If you have any queries regarding the above information, please contact Lesley Hart on (08) 9842 4553.

Yours sincerely

Ed Schuller
Officer delegated under section 20
of the *Environmental Protection Act 1986*

18 December 2014



Licence

Environmental Protection Act 1986, Part V

Licensee: Milne AgriGroup Pty Ltd

Licence: L8031/2005/4

Registered office: 2 Alumina Road
 EAST ROCKINGHAM WA 6168

ACN: 008 919 579

Premises address: Mount Barker Chicken
 Lake Matilda Road
 KENDENUP WA 6323
 Being Lots 310, 311, 312 & 313 on Plan 4691 as depicted in Schedule 1

Issue date: Thursday, 18 December 2014

Commencement date: Monday, 22 December 2014

Expiry date: Saturday, 21 December 2019

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
15	Abattoir: premises on which animals are slaughtered	1 000 tonnes or more per year	15 900 tonnes (animal live weight) per annual period

Conditions

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

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 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 works with the business owners, community, consultants, industry and other representatives 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

Milne AgriGroup, trading as Mount Barker Chicken (MBC), operates a poultry abattoir and processing facility on a 27.5 hectare site close to the small rural settlement of Kendenup, located 20km NNW of Mt Barker, Western Australia. MBC are licensed for a production capacity of up to 15,900 tonnes (live weight) per year, equivalent to approximately 100,000 birds per week. Current production is at approximately 84,000 birds/week, producing an average of 780kL/week (40.6ML per year) of wastewater. No birds are raised or housed on the premises. Wastewater is treated onsite through a series of treatment ponds (anaerobic and aerobic) and is then irrigated to land over an area totalling 14 hectares.

The operation of a poultry abattoir at the site commenced in the late 1980's as a family owned small (less than 1 000 tonnes per year) rural abattoir. Since this time, ownership has changed several times with the Premises becoming Registered (R01259) under the *Environmental Protection Regulations 1987* Schedule 2: Abattoir to Timepath Holdings Pty Ltd in November 2000. The abattoir was not constructed through a works approval as its initial establishment predated the legislative requirement.

By July 2005 the abattoir had expanded operations to throughput in excess of the Registration approved throughput of 1 000 tonnes per year without a works approval or Licence to authorise the emissions and discharges of waste that were occurring. As a result of complaints being received the Department of Environment (DoE) at the time issued an Environmental Protection Notice (EPN) requiring urgent and significant upgrades to the wastewater treatment system to be undertaken and that a Licence be applied for to authorise the discharge to land of treated effluent through irrigation and the preparation of a Nutrient Irrigation Management Plan.

MBC subsequently complied with the requirements of the EPN increasing the throughput capacity of the abattoir to approximately 4 000 tonnes per year in 2005 and completing major upgrades to the wastewater treatment system by early 2007. In 2010 MBC subsequently applied for further increases to throughput through a Works Approval application which included establishment of the second irrigation area and installation of additional bores at the site. The 2011 licence amendment increased the production limit to 12 000 tonnes/yr dressed weight, equivalent to 15,900 tonnes (live weight) per year.

The closest residential receptor is 150m west, with several residences adjacent to the west, NW and SW of the premises, which is otherwise surrounded by small to medium sized rural landholdings. There are no nearby surface water bodies, the closest being a seasonal stream approximately 750m east.

The main emissions are odour, noise and the discharge of treated wastewater to land (irrigation). Odour abatement measures include the use of pontoons and straw covers over the anaerobic treatment ponds. The application of treated wastewaters to land is operated and managed in accordance with a Nutrient Irrigation Management Plan (NIMP) (May 2006, prepared by ATA Environmental and as updated 30 June 2011 by Aurora Environmental). The NIMP includes assessment of the irrigation rate based on total treated wastewater volume, the proposed



irrigation schedule and predicted nutrient and biological oxygen demand application rates. In addition the NIMP describes irrigation design and methodology and includes an Environmental Monitoring Program.

This Licence is the successor to licence L8031/2005/3 and includes conversion to REFIRE format.

The registrations, licences and works approvals issued for the Premises since 16/11/2000 are:

Instrument log		
Instrument	Issued	Description
R01259	16/11/2000	Registration issued
L8031/2005/1	22/12/2005	New application
L8031/2005/2	21/12/2006	Licence re-issue including wastewater and production limits
L8031/2005/3	18/12/2008	Licence re-issue
W4710/2010/1	25/05/2010	Works approval to upgrade wastewater treatment
L8031/2005/3	04/11/2011	DER amendment following works, including licence extension
L8031/2005/4	18/12/2014	Licence re-issue including conversion to REFIRE format

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' means the Australian height datum;

'animals' means live chickens, turkey or quail;

'animal waste material' includes mortalities, blood, bone, fat, feathers, offal and animal residues generated from the animal slaughter and which is not directed to the wastewater treatment system;

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

'AS 4482.1' means the Australian Standard AS 4482.1 – 2005 Guide to the investigation and sampling of sites with potentially contaminated soil – Non-volatile and semi-volatile compounds;

'AS 4482.2' means the Australian Standard AS 4482.2 -1999 Guide to the sampling and investigation of potentially contaminated soil – Volatile substances;

'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*;

'AS/NZS 1547' means the Australian Standard AS/NZS 1547 *On-site domestic wastewater management*;

'ASPAC' means Australasian Soil and Plant Analysis Council;

'ASPAC certification' means in relation to the analysis of a sample that the laboratory is ASPAC certified for the specified analysis at the time of the analysis;

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

'BOD' means biochemical oxygen demand

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



'CEO' for the purpose of correspondence means;

Manager Licensing (South Coast)
Department of Environment Regulation
120 Albany Hwy
ALBANY WA 6330
Telephone: (08) 9842 4567
Facsimile: (08) 9841 7105
Email: southcoast@der.wa.gov.au;

'**code of practice for the storage and handling of dangerous goods**' means the document titled "Storage and handling of dangerous goods: Code of Practice" published by the Department of Mines and Petroleum, as amended from time to time;

'**dangerous goods**' has the meaning defined in the *Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007*;

'**dS/m**' means decisiemens per metre;

'**environmentally hazardous material**' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum;

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

'**fugitive emissions**' means all emissions not arising from point sources identified in sections 2.2, 2.3, 2.4 and 2.5;

'**hardstand**' means a surface with a permeability of 10^{-9} metres/second or less;

'**HDPE**' means high density polyethylene;

'**Licence**' means this Licence numbered L8031/2005/4 and issued under the Act;

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

'**meq/100g**' means milliequivalents per one hundred grams;

'**mS/cm**' means millisiemens per centimetre;

'**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;

'**nutrient irrigation management plan (NIMP)**' means the document titled Mount Barker Chicken Nutrient and Irrigation Management Plan, Version 1, 4 May 2006. Report No:2006/108. ATA Environmental and the update provided by Aurora Environmental, dated 30 June 2011.

'**nutrient loading rate**' means the quantity of a particular parameter applied over each Irrigation Area for a specified period of time, expressed as kilograms per hectare per year;

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



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

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

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

'usual working day' means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia; and

'wastewater treatment system' means the pond-based system for treating and storing wastewater including interconnecting pipes to and between Settling Tank 1, Settling Tank 2, Pond 1, Pond 2, Pond 3, Pond 4, Pond 5 and Pond 6 including aerators and clarifiers, as depicted in the Map of Storage Locations in Schedule 1.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the 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.

1.2 General conditions

1.2.1 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.

1.2.2 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.

1.2.3 The Licensee, except where storage is prescribed in section 1.3, shall only store environmentally hazardous materials if:

- (a) they are stored in accordance with the Code of Practice for the Storage and handling of dangerous goods; or
- (b) they are stored within compounds or vessels that:
 - (i) were constructed prior to 18/12/2014;
 - (ii) have not previously met the requirements of conditions 1.2.3(a); and
 - (iii) are the subject of improvement requirements IR2 and IR3 in section 4.

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

1.2.5 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.¹

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 wastes generated by the activities on the premises are only subjected to the processes set out in Table 1.3.1. and in accordance with any process limits described in that table.

Table 1.3.1: Authorised processes		
Animals/Waste	Processes	Process limits
Animals	Receipt and slaughter	No more than 15,900 tonnes (animal live weight) of animals may be received for slaughter per annual period.
Animal waste material	Storage and handling prior to disposal	Animal waste material shall not be stored for longer than 24 hours prior to offsite disposal.
Wastewater	Physical and biological treatment	All wastewaters including wash down water, by-products wastewater and contaminated run-off shall be directed to the wastewater treatment system.
Treated wastewater	Irrigation and evaporation	No more than 51.2ML of treated wastewater shall be transferred from the final storage dam (Pond 6) and irrigated to the designated irrigation areas per annual period.
Sludge and solid waste	Storage and handling prior to off-site disposal	All sludge and solid waste removed from the wastewater treatment system shall be stored on a temporary bunded and impervious containment infrastructure that is drained such that all leachate is directed to the wastewater treatment system.

1.3.2 The Licensee shall ensure that waste material 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		
Vessel or compound and location on Map of storage locations	Material	Requirements
Animal waste material bin	Animal waste material	Stored in a sealed, covered bin located on the hardstand adjacent to live animal receiving compound
Wastewater collection sump	Wastewater	2 x 5.2kL below ground concrete sumps
Settling tanks 1 & 2		1 x 55kL high density plastic tank (Tank 1) 1 x 50kL concrete tank (Tank 2)
Ponds 1 & 2 (Anaerobic treatment)		HDPE lined to achieve a permeability of less than 10 ⁻⁹ m/s
Ponds 3, 4 & 5 (Aerobic / facultative treatment)		
Evaporation / storage dam (Pond 6)	Treated wastewater	

1.3.3 The Licensee shall manage the wastewater settling tanks and ponds such that:

- (a) overtopping of the tanks or ponds does not occur;
- (b) the integrity of the containment infrastructure is maintained;
- (c) trapped overflows are maintained on the outlet of ponds to prevent carry-over of surface floating matter;
- (d) a minimum top of embankment freeboard of 300mm is maintained on Pond 6;
- (e) vegetation is prevented from growing on inner pond embankments; and
- (f) a crust / cover is maintained on anaerobic Ponds 1 and 2 at all times.



- 1.3.4 The Licensee shall
- (a) advise the CEO in writing no less than 72 hours prior to taking a treatment pond or settling tank offline for maintenance works; and
 - (b) advise the CEO in writing no less than 14 days prior to the removal of sludge from a treatment pond.
- 1.3.5 The Licensee shall manage the irrigation of treated wastewater such that:
- (a) no irrigation generated run-off, spray drift or discharge occurs beyond the boundary of the Premises;
 - (b) treated wastewater is evenly distributed over the irrigation area;
 - (c) no soil erosion occurs;
 - (d) irrigation does not occur on land that is waterlogged and no ponding of irrigation water on the surface occurs; and
 - (e) vegetation cover is maintained over the irrigation area.



2 Emissions

2.1 General

- 2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit or target specified in any part of section 2 of this Licence.

2.2 Point source emissions to air

There are no specified conditions relating to point source emissions to air in this section.

2.3 Point source emissions to surface water

There are no specified conditions relating to point source emissions to surface water in this section.

2.4 Point source emissions to groundwater

There are no specified conditions relating to point source emissions to groundwater in this section.

2.5 Emissions to land

- 2.5.1 The Licensee shall ensure that where waste is emitted to land from the emission points in Table 2.5.1 and identified on the Premises map and map of emission points and monitoring locations in Schedule 1, it is done so in accordance with the conditions of this Licence.

Emission point reference and location on Map of emission points and monitoring locations	Description	Source including abatement
L1 & L2	Pipe from Pond 6 to pumping station, passing through flow meter FM1, to travelling irrigators located in irrigation areas L1 and L2	Wastewater and contaminated runoff from operations treated through the wastewater treatment system



2.5.2 The Licensee shall not cause or allow emissions to land greater than the limits listed in Table 2.5.2.

Table 2.5.2: Emission limits to land				
Emission point reference and location on Map of emission points and monitoring locations	Monitoring point reference and location on Map of storage locations	Parameter	Limit (including units)	Averaging period
Irrigation areas L1 & L2	FM1 (Flow Meter 1)	Volume of wastewater applied to irrigation areas	51.2ML	Annual
	SW3 (located in Irrigation Pump Station)	pH	Not less than 6.0 or greater than 8.5	Spot sample
		BOD	30kg/ha	Daily
		Total Nitrogen	480kg/ha	Annual
		Total Phosphorus	120kg/ha	

Note 1: Daily loading calculated using monthly BOD sample and volume (kL) applied per irrigation area (ha) per day.

2.5.3 The Licensee shall ensure that the soil in each irrigation area does not exceed the limit specified in Table 2.5.3, as per the soil profile sampling and monitoring specified in Table 3.8.2.

Table 2.5.3: Soil profile quality limits				
Sampling point reference and location on Map of emission and sampling points	Soil sampling depth	Parameter	Limit (including units)	Averaging period
S1, S2, S5 & S6	0-30cm	Exchangeable Sodium Percentage (ESP)	25%	Spot sample
	30-60cm			

2.6 Fugitive emissions

There are no specified conditions relating to fugitive emissions in this section.

2.7 Odour

2.7.1 The Licensee shall ensure that odour emitted from the Premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the Premises.

2.8 Noise

There are no specified conditions relating to noise in this section.



3 Monitoring

3.1 General monitoring

3.1.1 The licensee shall ensure that:

- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
- (c) all groundwater sampling is conducted in accordance with AS/NZS 5667.11;
- (d) all soil sampling is conducted in accordance with AS 4482.1 and AS 4482.2 as relevant;
- (e) all water 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; and
- (f) all soil samples are submitted to and tested by a laboratory with current ASPAC certification or NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.

3.1.2 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.

3.1.3 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.

3.2 Monitoring of point source emissions to air

There are no specified conditions relating to monitoring of point source emissions to air in this section.

3.3 Monitoring of point source emissions to surface water

There are no specified conditions relating to monitoring of point source emissions to surface water in this section.

3.4 Monitoring of point source emissions to groundwater

There are no specified conditions relating to monitoring of point source emissions to groundwater in this section.

3.5 Monitoring of emissions to land

3.5.1 The Licensee shall undertake the monitoring in Table 3.5.1 according to the specifications in that table.



Table 3.5.1: Monitoring of emissions to land				
Emission point reference and location on Map of emission points	Monitoring point reference and location on Map of monitoring locations	Parameter	Units	Frequency
Irrigation areas L1 & L2	FM1 (Flow Meter 1)	Volumetric flow rate	kL/day	Each day that wastewater is discharged to the irrigation area
	SW3 (located in Irrigation Pump Station)	pH ¹	-	Monthly
		Electrical Conductivity ¹	mS/cm	
		Total Dissolved Solids	mg/L	
		Total Nitrogen		
		Total Phosphorus		
		Biochemical Oxygen Demand		
Exchangeable Cations (Sodium, Calcium, Magnesium, Potassium)				

Note 1: To be measured and recorded in the field at the time of sampling.

3.6 Monitoring of inputs and outputs

3.6.1 The Licensee shall undertake the monitoring in Table 3.6.1 according to the specifications in that table.

Table 3.6.1: Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Input	Live weight of animals slaughtered at the Premises	Tonnes	Monthly	Cumulative daily receipt of animals arriving at the Premises for the purpose of slaughter
Output	Animal waste material			kL
	Liquid controlled wastes			

3.7 Process monitoring

There are no specified conditions relating to process monitoring in this section.

3.8 Ambient environmental quality monitoring

3.8.1 The Licensee shall undertake the monitoring in Tables 3.8.1 and 3.8.2 according to the specifications in those tables.



Table 3.8.1: Monitoring of ambient soil quality					
Monitoring point reference and location	Soil sampling depth	Parameter	Units	Averaging period	Frequency
S1, S2, S5 & S6	0-30cm	Phosphorus	mg/kg	Spot sample	Annually in September
		Phosphorus Retention Index (PRI)	-		
	0-30cm 30-60cm	pH	-		
		Electrical Conductivity	dS/m		
		Exchangeable Cations (Sodium, Calcium, Magnesium, Potassium)	meq / 100g		
		Exchangeable Sodium Percentage (ESP) ¹	%		
		Hydraulic conductivity (Ksat) ²	m/sec		

Note 1: As per methodology in 'Australian Laboratory Handbook of Soil and Water Chemical Methods' by G.E. Rayment and F.R. Higginson, Inkata Press, 1992.

Note 2: Using the constant head permeameter test as per AS/NZS 1547.

Table 3.8.2: Monitoring of ambient groundwater quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
MW2, MW3, MW4, MW5, MW6, MW7, MW9, MW10, MW11, MW12, MW13, MW14, MW15, MW16, MW17	Standing Water Level	m (AHD)	Spot sample	Quarterly in March, June, September and December each year
	pH ¹	-		
	Electrical Conductivity ¹	mS/cm		
	Total Nitrogen	mg/L		
	Ammonium-Nitrogen			
	Nitrate-Nitrogen			
	Total Phosphorus			
	Total Dissolved Solids			

Note 1: To be measured and recorded in the field at the time of sampling.

3.9 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.



4 Improvements

4.1 Improvement program

4.1.1 The Licensee shall complete the improvements in Table 4.1.1 by the date of completion in Table 4.1.1.

4.1.2 The Licensee, for improvements not specifically requiring a written submission, shall write to the CEO stating whether and how the Licensee is compliant with the improvement within one week of the completion date specified in Table 4.1.1.

Table 4.1.1: Improvement program		
Improvement reference	Improvement	Date of completion
IR1	The Licensee shall install and thereafter maintain a permanent survey marker within Pond 6 that will enable visual reading and recording of the freeboard in millimetres at any time.	31/03/15
IR2	The Licensee shall submit to the CEO a report on all existing tanks holding dangerous goods or environmentally hazardous materials identifying whether they are compliant with the standards in Condition 1.2.3 for new tanks. The report will include a list of actions for each non-compliant tank required to meet these requirements.	31/03/15
IR3	The Licensee shall submit to the CEO a report detailing a program of improvements to bring those non-compliant tanks identified in the response to IR1. These improvements should ensure those tanks are brought up to the standards in Condition 1.2.3 based on the environmental risk from each tank.	31/05/15
IR4	The Licensee shall submit to the CEO a revised version of the Nutrient Irrigation Management Plan (NIMP) that includes but is not limited to; (a) incorporation of the update provided by Aurora Environmental on 30/06/2011; and (b) a review of the physical areas currently authorised for irrigation by this licence (i.e. Areas L1 and L2) to include the provision of GPS points and confirmation of the total area in hectares available for irrigation; and (c) a review of the existing soil sampling points for irrigation areas L1 and L2, with a proposal to establish and monitor two new soil sampling sites for each irrigation area, to be located no closer than 25 metres to the outer boundary of any irrigation area; and (d) updated information on the location of currently monitored soil moisture probes and frequency of monitoring.	30/06/15



5 Information

5.1 Records

- 5.1.1 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 5.1.1(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.
- 5.1.2 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.
- 5.1.3 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.
- 5.1.4 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.

5.2 Reporting

- 5.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 60 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.



Table 5.2.1: Annual environmental report		
Condition or table (if relevant)	Parameter	Format or form¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
Tables 2.5.2 – 2.5.3	Limit exceedances for the annual period	None specified
Table 3.5.1	Volumetric flow rate, pH, electrical conductivity, total nitrogen, total phosphorus, biochemical oxygen demand, exchangeable cations	None specified
Table 3.6.1	Number of animals slaughtered and live weight tonnage inputs for the annual period. Monthly & annual volumes of treated wastewater irrigated to land. Tonnages of animal waste material and solid wastes leaving the Premises for the annual period	None specified
Table 3.8.1	pH, total nitrogen, total phosphorus, biochemical oxygen demand, total dissolved solids, total suspended solids	Tables
	pH, total nitrogen, total phosphorus, biochemical oxygen demand	Graphical format, including at least the past 3 years of monitoring data
Table 3.8.2	pH, electrical conductivity, phosphorus, phosphorus retention index, exchangeable cations, exchangeable sodium percentage, hydraulic conductivity (kSat)	None specified
Table 3.8.3	Standing water level, pH, electrical conductivity, total nitrogen, ammonium – nitrogen, nitrate – nitrogen, total phosphorus, total dissolved solids	Tables
	Standing water level, pH, total nitrogen, ammonium – nitrogen, nitrate – nitrogen, total phosphorus	Graphical format, including at least the last 3 years of monitoring data
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary to include the date, time and nature of the complaint, cross referenced to prevailing wind direction and speed	None specified
-	Report against compliance with the current Nutrient Irrigation Management Plan	None specified

Note 1: Forms are in Schedule 2

5.2.2 The Licensee shall submit the information in Table 5.2.2 to the CEO according to the specifications in that table.

Table 5.2.2: Non-annual reporting requirements				
Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
-	Copies of original monitoring reports submitted to the Licensee by third parties	Not Applicable	Within 14 days of the CEOs request	As received by the Licensee from third parties



5.3 Notification

5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
1.3.5	Any treatment pond taken offline	72 hours prior to taking the treatment pond offline for maintenance	None specified
	Any treatment pond to have sludge removed	14 days prior to removal of sludge from a treatment pond	
2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day.	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	Part B: As soon as practicable	
3.1.3	Calibration report	As soon as practicable.	None specified

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

Note 2: Forms are in Schedule 2

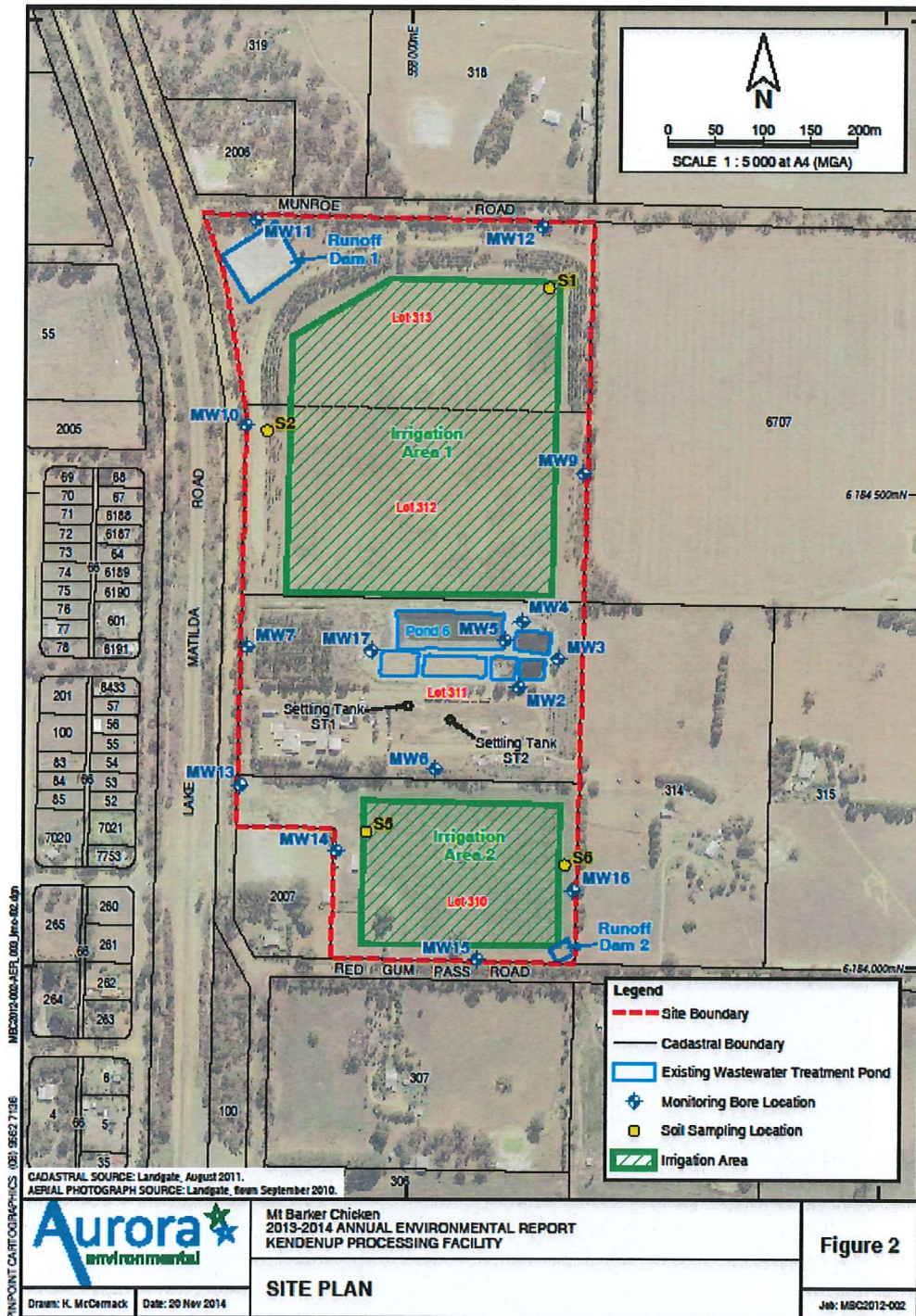


Schedule 1: Maps

Premises map and map of emission points and monitoring locations

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

The locations of the emission points defined in Table 2.5.1 and monitoring points defined in Tables 3.5.1, 3.8.1 and 3.8.2 are 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:	ABN:
Trading as:	
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 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"/>	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: L8031/2005/4
Form: N1

Licensee: Milne AgriGroup Pty Ltd
Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.

These pages outline the information that the operator must provide.
Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit

Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution

Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken , or intended to be taken, to stop any emission	
Description of the failure or accident	



Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Milne AgriGroup Pty Ltd	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Milne Agrigroup Pty Ltd**

Licence: **L8031/2005/4**

Registered office: 2 Alumina Road
EAST ROCKINGHAM WA 6168

ACN: 008 919 579

Premises address: Mount Barker Chicken
Lake Matilda Road
KENDENUP WA 6323
Being Lots 310, 311, 312 & 313 on Plan 4691as depicted in Schedule 1.

Issue date: Thursday, 18 December 2014

Commencement date: Monday, 22 December 2014

Expiry date: Saturday, 21 December 2019

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 and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by: Lesley Hart
Licensing Officer

Decision Document authorised by: Caron Goodbourn
Manager Licensing



Contents

Contents	2
1 Purpose of this Document	2
2 Administrative summary	3
3 Executive summary of proposal and assessment	4
4 Decision table	6
5 Advertisement and consultation table	11
6 Risk Assessment	12

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.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



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	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>15</td> <td>Not more than 15 900 tonnes per annual period (animal live weight)</td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	15	Not more than 15 900 tonnes per annual period (animal live weight)				
	Category number(s)	Assessed design capacity							
	15	Not more than 15 900 tonnes per annual period (animal live weight)							
Application verified	Date: 24/10/2014								
Application fee paid	Date: 19/11/2014								
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> ?	<table border="1"> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Referral decision No:</td> </tr> <tr> <td> </td> <td>Managed under Part V <input type="checkbox"/></td> </tr> <tr> <td> </td> <td>Assessed under Part IV <input type="checkbox"/></td> </tr> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No:		Managed under Part V <input type="checkbox"/>		Assessed under Part IV <input type="checkbox"/>		
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No:								
	Managed under Part V <input type="checkbox"/>								
	Assessed under Part IV <input type="checkbox"/>								
Is the proposal subject to Ministerial Conditions?	<table border="1"> <tr> <td>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></td> <td>Ministerial statement No:</td> </tr> <tr> <td> </td> <td>EPA Report No:</td> </tr> </table>	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No:		EPA Report No:				
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No:								
	EPA Report No:								
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"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>								
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.									
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.									



3 Executive summary of proposal and assessment

Milne AgriGroup, trading as Mount Barker Chicken (MBC), operates a poultry abattoir and processing facility on a 27.5 hectare site close to the small rural settlement of Kendenup, located 20km NNW of Mt Barker, Western Australia. MBC are currently licensed for a production capacity of up to 15 900 tonnes (live weight) per year.

The operation of a poultry abattoir at the site commenced in the late 1980's as a family owned small (less than 1 000 tonnes per year) rural abattoir. Since this time, ownership has changed several times with the Premises becoming Registered (R01259) to Timepath Holdings Pty Ltd under the *Environmental Protection Regulations 1987* Schedule 2: Abattoir in November 2000. The abattoir was not constructed through a works approval as its initial establishment pre-dated the legislative requirement. Dowford Investments Pty Ltd (Milne AgriGroup) took over ownership of the premises in July 2001 without providing notification of the ownership change to Department of Environment.

By July 2005 the abattoir had expanded operations to a throughput in excess of the Registration approved throughput of 1 000 tonnes per year without a works approval or licence to authorise the emissions and discharges of waste that were occurring. As a result of complaints being received the Department of Environment (DoE), at the time, issued an Environmental Protection Notice (EPN) requiring urgent and significant upgrades to the wastewater treatment system to be undertaken and that a Licence be applied for to authorise the discharge to land of treated effluent through irrigation and the preparation of a Nutrient Irrigation Management Plan.

MBC subsequently complied with the requirements of the EPN increasing the throughput capacity of the abattoir to approximately 4 000 tonnes per year in 2005 and completing major upgrades to the wastewater treatment system by early 2007. In 2010 MBC subsequently applied for further increases to throughput through a Works Approval application which included establishment of the second irrigation area and installation of additional bores at the site. The 2011 licence amendment increased the production limit to 12 000 tonnes/yr dressed weight, equivalent to 15,900 tonnes (live weight) per year.

The closest residential receptor is 150m west, with several residences adjacent to the west, NW and SW of the premises, which is otherwise surrounded by small to medium sized rural landholdings. There are no nearby surface water bodies, the closest being a seasonal stream approximately 750m east.

The abattoir currently receives only chickens for slaughter and processing from several farms in the local area, with no birds raised or housed at the premises. Small quantities of turkeys and quail have been slaughtered and processed in the past and may be slaughtered in the future. Current production throughput is approximately 84 000 birds per week, producing an average of 780kL/week (40.6ML per year) of wastewater. The Licence production limit includes a limit on the discharge of treated wastewater to land of 51.2ML per annual period.

Operation of the facility includes night time delivery and unloading of live animals to an undercover hardstand receival and temporary holding area. Solid waste materials disposed of offsite include animal manure and animal waste material from the slaughter and processing of animal carcasses. Wastewater is treated onsite through a series of treatment ponds providing anaerobic, aerobic and maturation treatment functions with 6 ponds in total. The final treated wastewater is held in a 14kL capacity storage dam (Pond 6), prior to discharge via irrigation over an area totalling 14 hectares. Irrigation is undertaken in accordance with the MBC Nutrient Irrigation and Management Plan (NIMP).

The main emissions are odour, noise and the emission of treated wastewater to land. There is a history of odour complaints from the premises, mainly preceding the significant site upgrades that took place from late 2005 to 2007. Odour abatement measures include the use of pontoons and straw covers over the two anaerobic treatment ponds. Noise emissions have historically been a



source of complaints in relation to night time truck movements prior to major site upgrades undertaken in 2005. No noise related complaints have been received for at least seven years..

The application of treated wastewaters to land is operated and managed in accordance with a Nutrient Irrigation Management Plan (NIMP) including requirements to monitor and meet nutrient application limits. A recent site inspection and review of current soil sampling sites and the irrigation areas requires review and submission of a revised NIMP including re-assessment of the location of soil sampling points. Since major upgrades to the wastewater treatment ponds and treatment infrastructure were completed, and the authorised irrigation schedule commenced in November 2006, the annual nutrient loading rates have fallen well within the licence limits.

In reissuing the licence, DER has amended the licence to convert it to the new standardised REFIRE format. During the conversion process DER has not reassessed the acceptability or impacts of emissions and discharges from the Premises with the exception of the management of stormwater on the Premises.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, DEC's Policy Statement - Limits and targets for prescribed premises (2006), 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	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
General and Premises operation conditions	L1.2.3 & L1.2.5, L1.3.1 - L1.3.5	OSC	<p>Operation</p> <p><u>Emission Description</u> <i>Emission:</i> Stormwater contamination from activities on the premises including contaminated runoff from abattoir operations and the wastewater treatment ponds and storage, and use of the diesel storage tank. <i>Impact:</i> Contamination of surrounding land. Potential impacts on surface water or groundwater from the addition of hydrocarbons, salts and nutrients. The closest surface water body is a seasonal stream approximately 750m east. Groundwater elevations at the site vary from 7 to 10 metres below ground level, with sub surface clay located 30 - 60cm below the surface. <i>Controls:</i> Operational areas around the outside of the abattoir, where stormwater can come into contact with animal waste material, are bitumen or concrete hardstand areas directing any potentially contaminated water to drains connected to the below ground wastewater collection pit. The two settling tanks receiving untreated wastewater are both above ground tanks and the wastewater treatment ponds are designed to direct stormwater away from the embankments. The diesel tank is an elevated tank located on sand/gravel.</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></p>	<p>Application supporting documentation</p> <p>Annual Environmental Report 2013-2104, Aurora Environmental, Aug 2014</p> <p><i>Environmental Protection (Abattoirs) Regulations, 2001</i></p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations, 2004</i></p> <p>General</p>

		<p>appropriate diversion of wastewater from the abattoir to the Wastewater Treatment System (WWTS), management of the WWTS including requirements to prevent overtopping and maintain a minimum 300mm freeboard in the final treatment pond, and ensure that the integrity of all pond containment infrastructure is maintained.</p> <p>IR1 has been added to the licence to ensure that the freeboard in the final storage pond (Pond 6) can be accurately determined at any one time.</p> <p><u>Residual Risk</u> <i>Consequence</i>: Insignificant <i>Likelihood</i>: Possible <i>Risk Rating</i>: Low</p> <p>Note: OSC 1.3.5 is referred to under the emissions to land section.</p>	
	OSC	Descriptive and numeric limits have been set through conditions 2.5.2, 2.5.3 and 2.7.1 of the licence and therefore the OSC regarding the recording and investigation of exceedances of limits or targets has been included.	N/A
d	N/A	No point source emissions to air or surface water, or direct emissions to groundwater, are expected from the operation of the abattoir or the associated management of animal wastes and wastewater. No specified conditions relating to air, surface water or groundwater point source emissions or the monitoring of such emissions are proposed for this licence.	Application supporting documentation

	OSC	<p>Odour emissions have not been reassessed for risk as part of this licence reissue and conversion to REFIRE format.</p> <p>. The OSC odour condition 2.7.1 has been included to replace conditions 11 and 12 of the previous licence which required weekly monitoring and recording of odour. Monitoring and reporting of any odour complaints is adequately covered under SC 5.1.4 and the OSC 5.2.1 Annual Environmental Reporting requirement to provide a complaints summary that includes cross referencing to wind speed and direction.</p>	
	N/A	<p>Noise emissions have not been reassessed as part of this licence reissue and conversion to REFIRE format. As the previous licence did not impose controls on noise, no specific conditions have been included in this section. The <i>Environmental Protection (Noise) Regulations 1997</i> and SC1.2.1 apply.</p>	
3	OSC	<p>Since treated wastewater quality and ambient environmental quality monitoring is required by the licence general monitoring conditions apply.</p> <p>L.3.1.1 included to ensure groundwater sampling is undertaken in accordance with AS/NZS standards and analysis by NATA accredited laboratory. L3.1.1 (f) replaces condition 9 and 3.1.1 (g) replaces condition 10 in the current licence. L3.1.2 and L3.1.3 are included to ensure calibration of all monitoring equipment and reporting where calibration requirements cannot be met.</p>	
	OSC	<p>Monitoring of the production throughput, offsite animal waste material disposal and any controlled liquid waste removed from the Premises is covered under L5.2.1 Annual Environmental Report Conditions.</p>	

		Due to the monitoring of emissions to land and the adequacy of the soil quality and groundwater quality ambient monitoring conditions, monitoring of the cut-off dams has been removed.	Nutrient Irrigation and Management Plan Update, Aurora Environmental, June 2011
	N/A	Meteorological monitoring requirements have not been reassessed as part of this licence reissue and conversion to REFIRE format.	
	OSC/ NSC	<p>Improvement Condition IR1 requires a freeboard marker to be installed in Pond 6 to enable the freeboard level to be determined at any one time. This will enable compliance with Premises operation conditions 1.3.3 (a) and (d)</p> <p>IR2 and IR3 are standard improvement conditions applied where a review of storage tanks is required including hydrocarbon storage. MBC currently have an elevated diesel tank operating on site that is not located within a bunded hardstand area presenting a risk of potential discharges to land from spilt diesel</p> <p>IR4 requires the review and submission of an updated NIMP in accordance with the listed requirements. An update to the NIMP by Aurora Environmental was submitted in 2011 following completion of site upgrades that included a subsequent request to increase production throughput and therefore the volume of treated wastewater to be discharged to land. This update has not been integrated into the original NIMP. To date, the existing irrigation areas have not been defined by gps locations and the current soil sampling site locations are either right on the outside border of the irrigation area or just outside of it.</p>	<p>Code of Practice for the Storage and Handling of Dangerous Goods, Department of Mines and Petroleum, Government of Western Australia</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations,</i></p>

that the new licence be issued for 5 years.

- requirements from settling tanks (every 3 months) are not conducive to 14 day prior notice
- Request to consider 0.5 increase to upper pH limit (from 8.5 to 9.0) or reconsider pH to be a target rather than limit
 - Minor clarification re soil profile sampling

- soil profile sampling tables corrected
2. No change to production tonnage limit as it correctly reflects the upper production limit for weekly bird slaughter numbers previously assessed as 100,000 birds/week
 3. No change to the upper pH limit for treated wastewater



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