



Licence

Environmental Protection Act 1986, Part V

Licensee: Global Renewables WA Operations Pty Limited

Licence: L8242/2008/4

Registered office: Waste Management Facility
Lot 10 on Deposited Plan 1048435 Wallgrove Road
EASTERN CREEK NSW 2766

ACN: 609 591 031

Premises address: AnaeCo Limited
Part of Lot 11541 on Plan 189946 Lemnos Street
SHENTON PARK WA 6008
As depicted in Schedule 1.

Issue date: Thursday, 16 January 2014

Commencement date: Sunday, 22 January 2014

Expiry date: Saturday, 21 January 2017

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
61A	Solid waste facility - premises on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land	1,000 tonnes or more per year	60,500 tonnes per annual period
67A	Compost manufacturing and soil blending - premises on which organic material (excluding silage) or waste is stored pending processing, mixing, drying or composting to produce commercial quantities of compost or blended soil.	1,000 tonnes or more per year	25,500 tonnes per annual period

Conditions

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

Date signed: 2 June 2016

.....
Alan Kietzmann
MANAGER – LICENSING (WASTE 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

The Licensee shares Lot 11541 on Plan 189946 with the Western Metropolitan Regional Council (WMRC), who hold licence L7303/1998/10 for prescribed premises category 62 (solid waste depot). WMRC occupies the western portion of the Lot and the Licensee occupies the eastern half of the Lot. In addition, WMRC and the Licensee's premises occupy portions of the same building, as both facilities are constructed with adjoining walls and they also share some of the same infrastructure. As part of the amendment, an additional premises map (Attachment 2) has been included on the licence to depict the internal structures.

The Licensee only accepts material from the onsite WMRC transfer station. Waste from the transfer station which meets the Licensee's requirements is loaded onto a connecting conveyor belt which enters the Licensee's Materials Recovery Facility (MRF). Any waste not meeting the Licensee's requirements is processed through WMRC's transfer station. This conveyor belt leads directly into non-biological rotating drum separators (trommel) which sorts degradable and organic matter from the waste. A small volume of water is added to the trommel which saturates degradable products. The water is recycled in the process either for addition to the trommel or as the anaerobic liquor used in the vessel.

The undesired waste products which are unable to be broken down into small fragments are transferred back into the WMRC facility on conveyors for transportation to landfill. During this stage of the process, odorous air generated will be directed through exhaust systems and through to the odour removal system. Any recyclable materials are removed from the waste stream and transported off-site to an appropriate facility.

The desirable products (degradable and organic materials) are broken down into small fragments by the rotating trommel and are then transferred into an enclosed digester via conveyor belts, where the waste is exposed to aerobic conditions for five days. This stage prepares waste for anaerobic treatment. The main product produced at this stage is heat.

The waste then undergoes anaerobic treatment with the addition of anaerobic bacterial liquor (up to 450,000 litres of recycled process water). This stage lasts between 7 to 12 days. The liquor is drained from the vessel and stored prior to recycling back through the process. The vessel is then exposed to heat and air for a further seven days of aerobic treatment to stabilise the material and remove odour. The compost contained within the vessel is then removed.

Methane prominent biogas is produced during the anaerobic phase which will be used to generate electricity, which in turn will be used in the operation of the plant, or flared when required. Surplus electricity will be directed back into the electricity grid.

The depth to groundwater is around 9 metres below ground level with the thickness of the aquifer being approximately 38 metres. The groundwater is considered brackish (1500-3000 mg/L total dissolved solids) with a low risk of iron staining. There is no known risk of Acid Sulfate Soils.

The facility is located on typical Swan Coastal plain geology with deep Bassendean sands. The nearest surface water bodies to the site are Perry Lakes, which are located approximately 2 km to the north-north-west of the Licensee's facility. Ground water flow direction in the region is generally westerly.

The nearest residents are located 700 metres south-west and 1.12 kilometres south-east of the premises. Bush Forever areas are located 430 metres south-east, 680 metres north-east and 1.35 kilometres north-west



of the premises. The premises is bordered by Water Corporation's Subiaco Wastewater Treatment Plant (WWTP) located on the northern side of Lemnos Street, an Electricity Networks Corporation (Western Power) power station north-west on the other side of Brockway Road, Department of Health buildings on the south-west of Brockway Road, and the Commonwealth of Australia army installation and facilities adjacent to the southern and eastern boundaries of the premises.

John XXIII secondary college is located approximately 450 metres east and a University of Western Australia open space and facilities are located approximately 350 metres north-west of the premises. The premises is located within the odour buffer of the Subiaco WWTP.

The premises is located with the City of Nedlands. The Environmental Protection Authority (EPA) Guidance Statement No. 3 Separation Distances between Industrial and Sensitive Land Uses recommends a buffer of 250m for enclosed windrows with odour control and 150m for in-vessel composting with odour control. This premises meets the guidance statement's recommended buffer distances.

The Western Australian Planning Commission (WAPC) is the relevant planning authority for this location. DER has liaised with WAPC and has been advised that the planning approval for this site (both AnaeCo facility and WMRC) expired in January 2014. Any approvals beyond the current licence expiry date will require valid planning approval in place prior to a new licence being granted in accordance with DER's Guidance Statement: Land Use Planning (October 2015). If planning approval has not been obtained, this may result in DER not granting a new licence.

This amendment is the result of a request to transfer the occupier from AnaeCo Limited to Global Renewables WA Operations Pty Limited. The transfer includes amendments such as the removal of some conditions to bring the licence into alignment with DER's current licence version.

The licences and works approvals issued for the Premises since 2010 are:

Instrument log		
Instrument	Issued	Description
W4679/2010/1	24/06/2010	New works approval for construction of two digesters
L8242/2008/3	29/11/2010	Licence re-issue
W4679/2010/1	19/07/2011	Works approval amendment to increase biofilter footprint and increase gas generator capacity
W4679/2010/1	20/06/2013	Works approval amendment to extend expiry date
L8242/2008/4	16/01/2014	Licence re-issue
W4679/2010/1	13/06/2014	Works approval amendment to extend expiry date
L8242/2008/4	3/09/2015	Licence amendment to increase annual throughput
L8242/2008/4	2/06/2016	Transfer of occupier

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:

'Acceptance Criteria' has the meaning defined in Landfill Definitions;

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

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

'AS 4454' means Australian Standard AS 4454 *Composts, soil conditioners and mulches*;

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

'batch cycle' means one full composting process, including aerobic and anaerobic conditions, undertaken within the a composting digester;

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

'CEO' for the purpose of correspondence means;

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

'controlled waste' has the definition in *Environmental Protection (Controlled Waste) Regulations 2004*;

'DER Asbestos Guidelines' means document titled "Guidelines for managing asbestos at construction and demolition waste recycling facilities", published by the Department of Environment and Conservation, as amended from time to time.

'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;

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

'Landfill Definitions' means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment as amended from time to time.

'leachate' means liquid released by or water that has percolated through waste and which contains some of its constituents;

'Licence' means this Licence numbered L8242/2008/4 and issued under the Act;



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

'Performance Trials' means the period of plant commissioning where nine complete batch cycles of the three digesters has been undertaken;

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

'Putrescible' has the meaning defined in Landfill Definitions;

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

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

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

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 current version of the 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 Premises operation

1.2.1 The Licensee shall only accept waste on to the Premises if:

- (a) it is of a type listed in Table 1.3.1;
- (b) the quantity accepted is below any quantity limit listed in Table 1.3.1; and
- (c) it meets any specification listed in Table 1.3.1.

Table 1.3.1: Waste acceptance

Waste type	Quantity limit	Specification
Putrescible waste	60,500 tonnes per annual period	Waste only to be accepted from the Western Metropolitan Regional Council Transfer Station located on part Lot 11541 on Plan 189946 Lemnos Street in Shenton Park.

1.2.2 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.3.1 it is returned to the Western Metropolitan Regional Council Transfer Station.

1.2.3 The Licensee shall ensure that wastes accepted onto the Premises are only subjected to the process(es) set out in Table 1.3.2 and in accordance with any process limits described in that Table.

Table 1.3.2: Waste processing

Waste type	Process	Process limits
Putrescible waste	Receipt, handling, sorting and storage prior to processing or removal offsite.	<ul style="list-style-type: none"> i) Only to be stored and sorted within an enclosed building on a bunded hardstand or hardstand connected to a collection sump to prevent run-off; and ii) Waste shall not be stored for longer than 24 hours before being processed.



	In-vessel biological treatment	i) Leachate is collected and returned to the process.
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1.3.4 The Licensee shall ensure that waste is stored and/or contained within infrastructure in accordance with Table 1.3.3 and that the integrity of the containment infrastructure is maintained.

Table 1.3.3: Containment infrastructure		
Containment area/infrastructure	Material	Infrastructure requirements
Waste storage and sorting area	Waste types as detailed in Table 1.3.1 (feedstock)	Bunded hardstand area or hardstand connected to a collection sump.
Biological Treatment area		Enclosed digester vessel

1.3.5 The Licensee shall ensure that any biogas produced at the Premises is recycled or combusted.

2 Monitoring

2.1 Monitoring of inputs and outputs

2.1.1 The Licensee shall undertake the monitoring in Table 2.1.1 according to the specifications in that table.

Table 2.1.1: Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Putrescible waste	tonnes	N/A	Each load arriving at the Premises
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises

3 Improvements

3.1 Improvement program

3.1.1 The Licensee shall complete the improvements in Table 3.1.1 by the date of completion in Table 3.1.1.

Table 3.1.1: Improvement program		
Improvement reference	Improvement	Date of completion
IR1	The Licensee shall undertake a noise assessment of the Premises under normal operating conditions. A report on the noise assessment shall be prepared in accordance with the <i>Environmental Protection (Noise) Regulations 1997 (Noise Regulations)</i> . The report shall be submitted to the CEO and shall include: (a) methods used for monitoring of noise; (b) an assessment of whether noise emissions from the Premises comply with the assigned noise level in the Noise Regulations; and where they are not met, proposed measures to reduce noise	One month after completion of the Performance Trials.



	emissions to assigned levels together with timescales for implementing the proposed measures.	
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4 Information

4.1 Records

4.1.1 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 4.1.1(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.

4.1.2 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.

4.1.3 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.

4.2 Reporting

4.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 32 calendar days after the end of the annual period. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

Table 4.2.1: Annual Environmental Report

Condition or table (if relevant)	Parameter	Format or form ¹
-	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
2.1.1	Summary of inputs and outputs	None specified
4.1.2	Compliance	Annual Audit Compliance Report (AACR)
4.1.3	Complaints summary	None specified

Note 1: Forms are in Schedule 2

4.3 Notification

4.3.1 The Licensee shall ensure that the parameters listed in Table 4.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 4.3.1: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working	N1



Table 4.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
		day. Part B: As soon as practicable	
3.1.1	Completion of Performance Trials	As soon as practicable but no later than 5pm of the next usual working day.	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

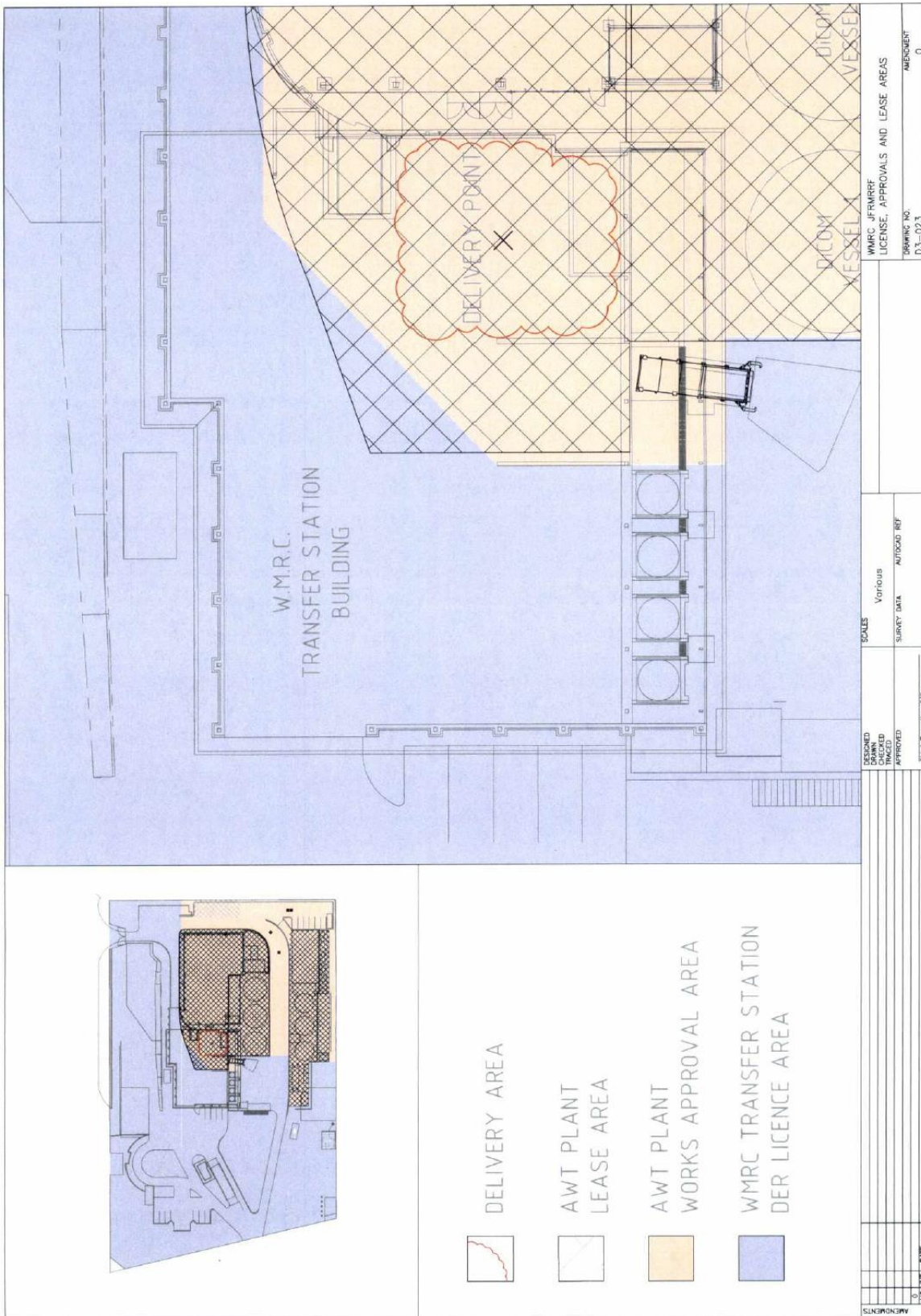
Premises map

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





Map of internal premises overview





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 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: L8242/2008/4
 Form: N1

Licensee: Global Renewables WA Operations Pty Limited
 Date of breach:

Notification of detection of the breach of a limit.

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	



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 Global Renewables WA Operations Pty Limited	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Global Renewables WA Operations Pty Limited**

Licence: **L8242/2008/4**

Registered office: Waste Management Facility
Lot 10 on Deposited Plan 1048435 Wallgrove Road
EASTERN CREEK NSW 2766

ACN: 609 591 031

Premises address: AnaeCo Limited
Part of Lot 11541 on Plan 189946 Lemnos Street
SHENTON PARK WA 6008
As depicted in Schedule 1.

Issue date: Thursday, 16 January 2014

Commencement date: Sunday, 22 January 2014

Expiry date: Saturday, 21 January 2017

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER) CEO delegated officer has decided to grant a licence transfer. The DER delegated officer considers that in reaching this decision, he has taken into account all relevant considerations.

Decision Document prepared by: Lauren Fox
 A/Senior Licensing Officer

Decision Document authorised by: Alan Kietzmann
 Delegated Officer



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1 Purpose of this Document

This decision document explains how DER delegated officer has assessed and determined the application and provides a record of the 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"/>	<input type="checkbox"/>
	New Licence <input type="checkbox"/>	<input type="checkbox"/>
	Licence transfer <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Works Approval amendment <input type="checkbox"/>	<input type="checkbox"/>
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	61A	60,500
	67A	25,500
Application verified	Date: N/A	
Application fee paid	Date: 20/4/2016	
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	N/A	
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 type="checkbox"/>	No <input checked="" type="checkbox"/>
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>



3 Executive summary of proposal and assessment

The Licensee shares Lot 11541 on Plan 189946 with the Western Metropolitan Regional Council (WMRC), who hold licence L7303/1998/10 for prescribed premises category 62 (solid waste depot). WMRC occupies the western portion of the Lot and the Licensee occupies the eastern half of the Lot. In addition, WMRC and the Licensee's premises occupy portions of the same building, as both facilities are constructed with adjoining walls and they also share some of the same infrastructure. As part of the amendment, an additional premises map (Attachment 2) has been included on the licence to depict the internal structures.

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The desirable products (degradable and organic materials) are broken down into small fragments by the rotating trommel and are then transferred into an enclosed digester via conveyor belts, where the waste is exposed to aerobic conditions for five days. This stage prepares waste for anaerobic treatment. The main product produced at this stage is heat.

The waste then undergoes anaerobic treatment with the addition of anaerobic bacterial liquor (up to 450,000 litres of recycled process water). This stage lasts between 7 to 12 days. The liquor is drained from the vessel and stored prior to recycling back through the process. The vessel is then exposed to heat and air for a further seven days of aerobic treatment to stabilise the material and remove odour. The compost contained within the vessel is then removed.

Methane prominent biogas is produced during the anaerobic phase which is used to generate electricity, which in turn is used in the operation of the plant, or flared when required. Surplus electricity is directed back into the electricity grid.

The depth to groundwater is around 9 metres below ground level with the thickness of the aquifer being approximately 38 metres. The groundwater is considered brackish (1500-3000 mg/L total dissolved solids) with a low risk of iron staining. There is no known risk of Acid Sulfate Soils. The facility is located on typical Swan Coastal plain geology with deep Bassendean sands. The nearest surface water bodies to the site are Perry Lakes, which are located approximately 2 km to the north-north-west of the Licensee's facility. Ground water flow direction in the region is generally westerly.

The nearest residents are located 700 metres south-west and 1.12 kilometres south-east of the premises. Bush Forever areas are located 430 metres south-east, 680 metres north-east and 1.35 kilometres north-west of the premises. The premises is bordered by Water Corporation's Subiaco Wastewater Treatment Plant (WWTP) located on the northern side of Lemnos Street, an Electricity Networks Corporation (Western Power) power station north-west on the other side of Brockway Road, Department of Health buildings on the south-west of Brockway Road, and the Commonwealth of Australia army installation and facilities adjacent to the southern and eastern boundaries of the premises.



John XXIII secondary college is located approximately 450 metres east and a University of Western Australia open space and facilities are located approximately 350 metres north-west of the premises. The premises is located within the odour buffer of the Subiaco WWTP.

The premises is located with the City of Nedlands. The Environmental Protection Authority (EPA) Guidance Statement No. 3 Separation Distances between Industrial and Sensitive Land Uses recommends a buffer of 250m for enclosed windrows with odour control and 150m for in-vessel composting with odour control. This premises meets the guidance statement's recommended buffer distances.

The Western Australian Planning Commission (WAPC) is the relevant planning authority for this location. DER has liaised with WAPC and has been advised that the planning approval for this site (both AnaeCo facility and WMRC) expired in January 2014. Any approvals beyond the current licence expiry date will require valid planning approval in place prior to a new licence being granted in accordance with DER's Guidance Statement: Land Use Planning (October 2015). If planning approval has not been obtained, this may result in DER not granting a new licence.

This amendment is the result of a request to transfer the occupier from AnaeCo Limited to Global Renewables WA Operations Pty Limited. The transfer includes amendments such as the removal of some conditions to bring the licence into alignment with DER's current licence version.



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	N/A	<p>Conditions 1.2.1, 1.2.2 and 1.2.3 have been removed from the licence.</p> <p>Condition 1.2.1 of the previous licence, related to pollution control and monitoring equipment, has been removed from this licence as it is unclear as to which monitoring or pollution control equipment it relates.</p> <p>Former condition 1.2.2 related to specified clean-up requirements for environmentally hazardous materials. This condition has been removed from the licence as it is unclear and not enforceable. It is the Licensee's responsibility that environmentally hazardous materials are managed appropriately in a manner which prevents discharge to the environment. Any discharges to the environment may be subject to the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> <p>Condition 1.2.3 of the previous licence, related to prevention of stormwater becoming contaminated, has been removed from the licence as the condition is unclear and does not specify what stormwater infrastructure is required.</p> <p>There are no longer any conditions within the 'General conditions' section of the licence so reference to this section has been removed from the licence.</p>	N/A
Monitoring general	N/A	<p>Condition L2.1.1 of the previous licence has been removed as it required monitoring equipment to be calibrated in accordance with the manufacturer's specifications and is unclear as to which monitoring equipment it relates to.</p>	N/A



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>Condition L2.1.2 of the previous licence has also been removed as it related directly to the requirement of a calibration report specified in condition L2.1.1. As condition L2.1.1 has been removed, this condition is no longer relevant.</p> <p>Previous condition L2.2.1 and Table 2.2.1, monitoring of inputs and outputs, have been renumbered as condition L2.1.1 and Table 2.1.1.</p>	
Information	L4.1.1 – L4.1.3, L4.2.1 and L4.3.1	<p>Previous condition L4.1.2 has been removed from the licence. This condition required any person who was left in charge of the Premises, to be aware of the licence conditions. This condition is not clear or enforceable as knowledge of licence conditions does not prevent breaches from occurring, and it is not a defence to offences under the <i>Environmental Protection Act 1986</i> if the Licensee or its agents claim they are unaware of the conditions. The following two conditions (former conditions L4.1.3 and L4.1.4) have been renumbered to reflect the removal of this condition.</p> <p>Table 4.2.1 (condition L4.2.1) has been updated to reflect the changes to numbering for conditions L2.1.1, L4.1.2 and L4.1.3.</p>	N/A
Licence Duration	N/A	The AnaeCo facility has a lease term for 30 years with WMRC until 12 September 2037 however DER was been notified from the Western Australian Planning Commission that operational planning approval expired in January 2014 and has not been renewed. As there is no valid planning approval for this premises, the licence duration has not been extended. Any approvals beyond this date will require valid planning approval.	DER's Guidance Statement, <i>Licence duration</i> (Revised May 2015)



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
27/04/2016	The City of Nedlands was contacted to discuss the status of planning approval.	The City of Nedlands advised that as the premises is in an area zoned 'Public Purposes' under the Metropolitan Region Scheme, all planning applications are approved by the Western Australian Planning Commission (WAPC).	DER referred the planning query to WAPC
28/04/2016	WAPC was contacted to discuss planning approval	WAPC advised that operational planning approval was granted in January 2009 for a period of five year, which expired in 2014 and has not been renewed. The occupier is required to contact WAPC to obtain relevant planning approval as any DER approvals beyond the licence expiry of January 2017, may not be granted until such a time that approval is in place.	DER has not extended the licence duration under this amendment due to the absence of planning approval.
06/05/2016	Proponent sent a copy of draft instrument during 21 day comment period	No comments were 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