



Government of Western Australia  
Department of Environment Regulation

Your ref: L5953/1991/14  
Our ref: 2011/007524  
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The Manager  
Water Corporation  
PO Box 100  
LEEDERVILLE WA 6902

Dear Mr Groth

**ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE**

**Licence:** L5953/1991/14

**Premises:** Augusta Wastewater Treatment Plant

Further to my letter dated 22 January 2015, please find enclosed your amended *Environmental Protection Act 1986* licence.

If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on (08) 9725 4300 for clarification or discussion of any grievances you have.

If you are concerned about, or object to any aspect of the amendment, you may lodge an appeal with the Minister for the Environment within 21 days from the date on which this licence is received. The Office of the Appeals Convenor can be contacted on 6467 5190 to find out the procedure and fee.

Members of the public may also appeal the amendments. The Appeals Registrar at the Office of the Appeals Convenor can be contacted after the closing date of appeals to check whether any appeals were received.

Yours sincerely

Rebecca Kelly  
Officer delegated under Section 20  
of the *Environmental Protection Act 1986*

Thursday, 19 February 2015

copy to: Local Government Authority: Shire of Augusta-Margaret River

TL0571 v2.0



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Water Corporation

**Licence:** L5953/1991/14

**Registered office:** 629 Newcastle Street  
LEEDERVILLE WA 6007

**Premises address:** Augusta Wastewater Treatment Plant  
869 Leeuwin Road  
AUGUSTA WA 6290  
Being Lot 869 on Plan 190289 as depicted in Schedule 1

**Issue date:** Thursday, 30 October 2014

**Commencement date:** Saturday, 1 November 2014

**Expiry date:** Thursday, 31 October 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
54	Sewage facility: premises – (a) on which sewage is treated (excluding septic tanks); or (b) from which treated sewage is discharged onto land or into waters.	100 cubic metres or more per day	248 cubic metres per day

**Conditions**

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

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.

Other Guidelines which you should be aware of include:

- *Western Australian Guidelines for Biosolids Management*, Department of Environment and Conservation, December 2012 (as amended from time to time).

### 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 Augusta Wastewater Treatment Plant (WWTP) is located southwest of the town of Augusta at the base of an airport runway. The plant was established in 1991 and serves a population of approximately 1,376. The plant is licensed to accept 248 cubic metres (m<sup>3</sup>) per day and treats wastewater to a secondary standard.

The soil underlying the area is generally loamy gravels, duplex sandy gravels, semi-wet soils and grey deep sandy duplexes. The uppermost aquifer beneath the site is the superficial Leeuwin aquifer, which is in turn underlain by a fractured limestone. The site is considered to be within the catchment of the Toolibin Lake (a Ramsar site).

The plant consists of three treatment ponds where the wastewater is treated to a secondary standard. Treated wastewater is discharged via infiltration within an onsite designated land disposal area. The wastewater is discharged via a number of pipes into the infiltration disposal area. During wet periods this disposal area becomes a wetland and eventually flows to the Redman Brook which in turn flows into Flinders Bay.

The main emissions from the site are discharges of treated wastewater to land and surface water. Adjacent premises include the Augusta airport and crown land. The closest sensitive premises is a farm residence located approximately 500 m east of the WWTP.

Discharges of treated wastewater to land are managed by treating the wastewater to a defined water quality level and undertaking compliance monitoring prior to discharge.

This Licence is the result of an amendment sought by DER to convert the existing licence to a new format REFIRE licence.

The licences and works approvals issued for the Premises since 31/10/2008 are:

Instrument log		
Instrument	Issued	Description
L5953/1991/12	31/10/2008	Licence re-issue
L5953/1991/12	03/12/2009	Licence amendment to monitor for <i>E.coli</i> in place of thermo-tolerant coliforms
L5953/1991/13	27/10/2011	Licence re-issue
L5953/1991/13	17/10/2013	Licence amendment to include <i>E.coli</i> monitoring at MB1
L5953/1991/14	30/10/2014	Licence re-issue
L5953/1991/14	27/11/2014	Licence amendment to remove the requirement to monitor for faecal strepts and replace the monitoring of NH <sub>3</sub> -N with Ammonium-Nitrogen
L5953/1991/14	19/02/2015	Licence amendment 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;

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

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

**'AS/NZS 5667.4'** means the Australian Standard AS/NZS 5667.4 *Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made*;

**'AS/NZS 5667.6'** means the Australian Standard AS/NZS 5667.6 *Water Quality – Sampling – Guidance on sampling of rivers and streams*;

**'AS/NZS 5667.9'** means the Australian Standard AS/NZS 5667.9 *Water Quality – Sampling – Guidance on sampling from marine waters*;

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

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

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

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

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

Manager Licensing (Greater Swan)  
Department of Environment Regulation  
PO Box 1693  
BUNBURY WA 6231  
Telephone: (08) 9725 4300  
Facsimile: (08) 9725 4351  
Email: [grswanbunbury@der.wa.gov.au](mailto:grswanbunbury@der.wa.gov.au)

**'code of practice for the storage and handling of dangerous goods'** means 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;

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



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

**'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;

**'fugitive emissions'** means all emissions not arising from point sources identified in Sections 2.3 and 2.5;

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

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

**'Licence'** means this Licence numbered L5953/1991/14 and issued under the Act;

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

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

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

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

**'process equipment'** means any wastewater or sludge containment infrastructure or wastewater treatment vessel;

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

**'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; and

**'Waste Code'** means the Waste Code assigned to a type of controlled waste for purposes of waste tracking and reporting as specified in the Department of Environment Regulation "Controlled Waste Category List" (July 2014), as amended from time to time.

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 guidelines 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 ensure that environmentally hazardous substances are stored in accordance with the code of practice for the storage and handling of dangerous goods.
- 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.<sup>1</sup>
- Note1: The *Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

## 1.3 Premises operation

- 1.3.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit, and/or target in this section.
- 1.3.2 The Licensee shall only allow waste to be accepted on to the Premises if:
- (a) it is of a type listed in Table 1.3.2; and
  - (b) the quantity accepted is below any limit listed in Table 1.3.2; and
  - (c) it meets any specification listed in Table 1.3.2.

**Table 1.3.2: Waste acceptance**

Waste	Waste Code	Quantity Limit	Specification <sup>1</sup>
Sewage	N/A	None specified	Accepted through sewer inflow(s) and tankered waste only

Note 1: Additional requirements for the acceptance of controlled waste are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

- 1.3.3 The Licensee shall ensure that the wastes accepted onto the Premises are only subjected to the process(es) set out in Table 1.3.3 and in accordance with any process requirements described in that table.

**Table 1.3.3: Waste processing**

Waste type	Process	Process requirements
Sewage	Physical, biological and chemical treatment	Treatment of sewage waste shall be targeted at or below the treatment capacity of 248 m <sup>3</sup> /day.
Sewage sludge	Storage	None specified





- 1.3.4 The Licensee shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 1.3.4.

Table 1.3.4: Containment infrastructure		
Vessel or compound	Material	Requirements
Pond 1 (Primary Pond)	Wastewater	Clay lined
Pond 2 (Secondary Pond)		
Pond 3 (Tertiary Pond)		
Temporary sewage sludge storage area	Sewage sludge	(a) adequately bunded to prevent surface runoff of leachate or sludge from crossing the boundary of the premises; and (b) returns sludge leachate from the storage area back to the treatment ponds.

- 1.3.5 The Licensee shall manage all wastewater treatment ponds such that:
- (a) overtopping of the ponds does not occur except as a result of an extreme rainfall event (greater than 1 in 10 year event of 72 hours duration;
  - (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; and
  - (d) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments.
- 1.3.6 The Licensee shall manage the infiltration of treated wastewater such that:
- (a) treated wastewater is evenly distributed over the infiltration area to minimise soil erosion; and
  - (b) the infiltration area shall be clear of excessive sludge build up.



## 2 Emissions

### 2.1 General

- 2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit, and/or target in this section.

### 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

- 2.3.1 The Licensee shall ensure that where waste is emitted to surface water from the emission points in Table 2.3.1 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

**Table 2.3.1: Emission points to surface water**

Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
W1	S8000397	Discharge from infiltration area to Redman Brook	Treated wastewater from wastewater treatment plant infiltration area

### 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 map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

**Table 2.5.1: Emissions to land**

Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
L1	Discharge to infiltration	Discharge from Tertiary Pond (Pond 3) to onsite land disposal area (infiltration).	Final effluent pipeline from wastewater treatment plant

- 2.5.2 The Licensee shall target emissions to land at or below the levels specified in Table 2.5.2.

**Table 2.5.2: Emission targets to land**

Emission point reference	Parameter	Target (including units)	Averaging period
L1	BOD	30 mg/L	Spot sample



## **2.6 Fugitive emissions**

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

## **2.7 Odour**

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

## **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 surface water sampling is conducted in accordance with AS/NZS 5667.4, AS/NZS 5667.6 or AS/NZS 5667.9 as relevant;
- (d) all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
- (e) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.

### **3.1.2 The Licensee shall ensure that:**

- (a) monthly monitoring is undertaken at least 15 days apart;
- (b) quarterly monitoring is undertaken at least 45 days apart; and
- (c) annual monitoring is undertaken at least 9 months apart.

### **3.1.3 The Licensee shall record production or throughput data and any other process parameters relevant to any non-continuous or CEMS monitoring undertaken.**

### **3.1.4 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.**

### **3.1.5 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.**

## **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**

### **3.3.1 The Licensee shall undertake the monitoring in Table 3.3.1 according to the specifications in that table.**



Table 3.3.1: Monitoring of point source emissions to surface water					
Emission point reference	Monitoring point reference	Parameter	Units	Averaging Period	Frequency
W1	S8000397 (discharge from WWTP infiltration area to Redman Brook)	pH <sup>1</sup>		Spot sample	Quarterly
		Biochemical oxygen demand (BOD)	mg/L	Spot sample	Quarterly
		Total Suspended Solids	mg/L	Spot sample	Quarterly
		Total Kjeldahl Nitrogen	mg/L	Spot sample	Quarterly
		Ammonium-Nitrogen (NH <sub>4</sub> -N)	mg/L	Spot sample	Quarterly
		Nitrite + Nitrate-nitrogen (NO <sub>2</sub> / NO <sub>3</sub> -N)	mg/L	Spot sample	Quarterly
		Total Phosphorus	mg/L	Spot sample	Quarterly
		Conductivity	Ms/m	Spot sample	Quarterly
		Chlorophyll-a	µg/L	Spot sample	Quarterly
		Phaeophytins	µg/L	Spot sample	Quarterly
		Escherichia coli	cfu/100 mL	Spot sample	Quarterly
W1	S8000397 (discharge from WWTP infiltration area to Redman Brook)	Arsenic (As)	mg/L	Spot sample	Annually
		Cadmium (Cd)	mg/L	Spot sample	Annually
		Chromium (Cr)	mg/L	Spot sample	Annually
		Lead (Pb)	mg/L	Spot sample	Annually
		Mercury (Hg)	mg/L	Spot sample	Annually
		Nickel (Ni)	mg/L	Spot sample	Annually
		Selenium (Se)	mg/L	Spot sample	Annually
		Zinc (Zn)	mg/L	Spot sample	Annually

Note 1: In-field non-NATA accredited analysis permitted.

### 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	Monitoring point reference	Parameter	Units	Averaging Period	Frequency
L1	Treated wastewater outflow meter	Volumetric flow rate (cumulative)	m <sup>3</sup> /day	Monthly	Continuous
	Discharge to infiltration	pH <sup>1</sup>		Spot sample	Quarterly
		Biochemical Oxygen Demand	mg/L		Quarterly
		Total Suspended	mg/L		Quarterly





Table 3.5.1: Monitoring of emissions to land					
		Solids			
		Total Kjeldahl Nitrogen	mg/L		Quarterly
		Nitrite + Nitrate-nitrogen (NO <sub>2</sub> / NO <sub>3</sub> -N)	mg/L		Quarterly
		Ammonium-nitrogen (NH <sub>4</sub> -N)	mg/L		Quarterly
		Total Phosphorus	mg/L		Quarterly
		Conductivity	Ms/m		Quarterly
		Escherichia coli	cfu/100 mL		Quarterly
L1	Discharge to infiltration	Load of Total Suspended Solids	kg/day	Monthly and Annual	Annually
		Load of Total Kjeldahl Nitrogen	kg/day		Annually
		Load of BOD	kg/day		Annually
		Load of Nitrite + Nitrate-nitrogen (NO <sub>2</sub> / NO <sub>3</sub> -N)	kg/day		Annually
		Load of Ammonium nitrogen (NH <sub>4</sub> -N)	kg/day		Annually
		Load of Total Phosphorus	kg/day		Annually
		Load of conductivity	kg/day		Annually

Note 1: In-field non-NATA accredited analysis permitted.

### 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	Monitoring point reference	Parameter	Units	Averaging period	Frequency
Sewage - Inlet Flow	Albany Tce and Blackwood Ave PS Flow Meter	Volumetric flow rate (cumulative)	m <sup>3</sup> /day	Monthly	Continuous
Treated wastewater discharged from the final treatment pond.	Outflow (flume)	Volumetric flow rate (cumulative)	m <sup>3</sup> /day	Monthly	Continuous

### 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 and record and investigate results that do not meet any target specified.

<b>Table 3.8.1: Monitoring of ambient surface water quality</b>				
<b>Monitoring point reference and location</b>	<b>Parameter</b>	<b>Units</b>	<b>Averaging period</b>	<b>Frequency</b>
Redman Brook Gauging Station sample point S8000076 (not specified on map)	Volumetric flow rate (cumulative)	L/s or m <sup>3</sup> /day	Monthly	Continuous
	pH <sup>1</sup>		Spot sample	Quarterly
	Conductivity	Ms/m		Quarterly
	Total Kjeldahl Nitrogen	mg/L		Quarterly
	Ammonium-Nitrogen (NH <sub>4</sub> -N)	mg/L		Quarterly
	Nitrite + Nitrate-Nitrogen (NO <sub>2</sub> / NO <sub>3</sub> -N)	mg/L		Quarterly
	Total Phosphorus	mg/L		Quarterly
Redman Brook downstream of WWTP sample point S8000075	pH <sup>1</sup>		Spot sample	Quarterly
	Total Kjeldahl Nitrogen	mg/L		Quarterly
	Ammonium-Nitrogen (NH <sub>4</sub> -N)	mg/L		Quarterly
	Nitrite + Nitrate-Nitrogen (NO <sub>2</sub> / NO <sub>3</sub> -N)	mg/L		Quarterly
	Total Phosphorus	mg/L		Quarterly
	Conductivity	Ms/m		Quarterly
	Chlorophyll-a	µg/L		Quarterly
	Phaeophytins	µg/L		Quarterly
	Escherichia coli	cfu/100 mL		Quarterly

Note 1: In-field non-NATA accredited analysis permitted.

<b>Table 3.8.2: Monitoring of ambient groundwater quality</b>				
<b>Monitoring point reference and location</b>	<b>Parameter</b>	<b>Units</b>	<b>Averaging period</b>	<b>Frequency</b>
Groundwater Monitoring Bores 1 – 6 (MB1 – MB6)	Standing water level	m(AHD) mBGL	Spot sample	Quarterly
	pH <sup>1</sup>			Quarterly
	Conductivity	µS/cm		Quarterly
	Total Kjeldahl Nitrogen	mg/L		Quarterly
	Ammonium-Nitrogen (NH <sub>4</sub> -N)	mg/L		Quarterly
	Nitrite + Nitrate-Nitrogen (NO <sub>2</sub> / NO <sub>3</sub> -N)	mg/L		Quarterly
	Total Phosphorus	mg/L		Quarterly
Groundwater Monitoring Bore 1 (MB1)	Escherichia coli	cfu/100 mL	Spot sample	Quarterly

Note 1: In-field non-NATA accredited analysis permitted.

### 3.9 Meteorological monitoring

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



## 4 Improvements

There are no specified improvement conditions in this section.

## 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 by 1 September each year. 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 form <sup>1</sup>
-	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
Table 1.3.3	Summary of any treatment capacity target exceedances and any action taken.	None specified
Table 2.5.2	Target Exceedances	None specified
Table 3.3.1	Monitoring of point source emissions to surface waters	None specified
Table 3.5.1	Monitoring of emissions to land	None specified
	Contaminant loading (kg/day – monthly average and total annual loading kg/yr) to land of parameters monitored in Table 3.5.1 (except pH and E. coli)	None specified
Table 3.6.1	Monitoring of inputs and outputs	None specified





**Table 5.2.1: Annual Environmental Report**

Table 3.8.1	Monitoring of ambient surface water quality	None specified
Table 3.8.2	Monitoring of ambient groundwater quality	None specified
5.1.3	Compliance	Annual Audit Compliance Report (AACR)
5.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

5.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:

- (a) any relevant process, production or operational data recorded under condition 3.1.3; and
- (b) an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.

5.2.3 The Licensee shall submit the information in Table 5.2.3 to the CEO at the Contact Address according to the specifications in that table.

**Table 5.2.3: 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 CEO's 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 at the Contact Address and in accordance with the notification requirements of the table.

**Table 5.3.1: Notification requirements**

Condition or table (if relevant)	Parameter	Notification requirement <sup>1</sup>	Format or form <sup>2</sup>
-	Taking a treatment pond offline for maintenance works	Prior to the treatment pond being taken offline	None specified
-	Removal of sewage sludge from a treatment pond	No less than 14 days in advance of works	
1.3.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next working day  Part B: As soon as practicable	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution		

Note 1: No notification requirement in the Licence shall negate the requirement to comply with s72 of the Act.

Note 2: Forms are in Schedule 2

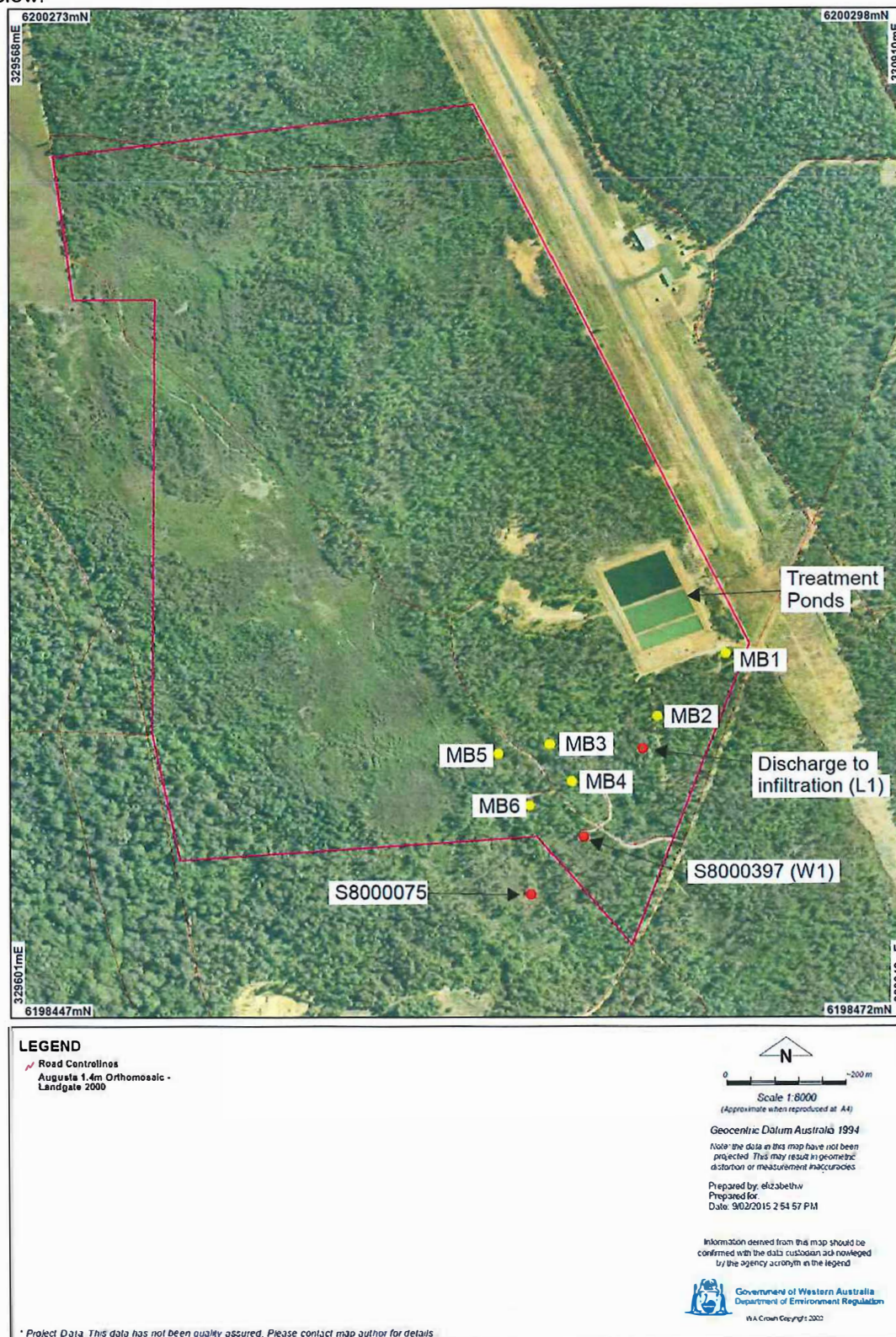




## Schedule 1: Maps

### Premises map and map of emission and monitoring points

The Premises is shown in the map below. The pink line depicts the Premises boundary. The locations of the emissions points defined in Tables 2.3.1 and 2.5.1 and monitoring points defined in 3.3.1, 3.5.1 and 3.8.1 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 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: \_\_\_\_\_

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

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

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

SEAL (if signing under seal)

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

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

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

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





Licence: L5953/1991/14  
Form: N1

Licensee: Water Corporation  
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	L5953/1991/14
Name of operator	Water Corporation
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 Water Corporation	
Date	







## ***Environmental Protection Act 1986, Part V***

**Licence: L5953/1991/14**

**Expiry date:** Thursday, 31 October 2019

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

Decision Document authorised by: Neville Welsh  
Manager Licensing



## Contents

Decision Document	1
Contents	2
1 Purpose of this Document	2
2 Administrative summary	3
3 Executive summary of proposal and assessment	4
4 Decision table	5
5 Advertisement and consultation table	10
6 Risk Assessment	11

## 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 type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	54 – Sewage facility	248 cubic metres per day
Application verified	Date: N/A	
Application fee paid	Date: N/A	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 126 EPA Report No: Assessment No. 302, Bulletin No. 457
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 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 <sub>2</sub> requirements of Kwinana EPP.		





### **3 Executive summary of proposal and assessment**

The Augusta Wastewater Treatment Plant (WWTP) is located southwest of the town of Augusta at the base of an airport runway. The plant was established in 1991 and serves a population of approximately 1,376. The plant is licensed to accept 248 cubic metres (m<sup>3</sup>) per day and treats wastewater to a secondary standard.

The soil underlying the area is generally loamy gravels, duplex sandy gravels, semi-wet soils and grey deep sandy duplexes. The uppermost aquifer beneath the site is the superficial Leeuwin aquifer, which is in turn underlain by a fractured limestone. The site is considered to be within the catchment of the Toolibin Lake (a Ramsar site).

The plant consists of three treatment ponds where the wastewater is treated to a secondary standard. Treated wastewater is discharged via infiltration within an onsite designated land disposal area. The wastewater is discharged via a number of pipes into the infiltration disposal area. During wet periods this disposal area becomes a wetland and eventually flows to the Redman Brook which in turn flows into Flinders Bay.

The main emissions from the site are discharges of treated wastewater to land and surface water. Adjacent premises include the Augusta airport and crown land. The closest sensitive premises is a farm residence located approximately 500 m east of the WWTP.

Discharges of treated wastewater to land are managed by treating the wastewater to a defined water quality level and undertaking compliance monitoring prior to discharge.

DER has amended the licence and converted it into the new standardised REFIRE format. During the conversion process, DER has not reassessed the acceptability or impacts of emissions and discharges from the Premises or re-visited any existing emission control levels except for emissions to land. As part of the amendment, the period of the licence has been extended by a further four years as the previous reissue was for only one year.



## 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	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	1.2.5	OSC	<p>Stormwater contaminated from activities on the premises has not been reassessed as part of this amendment. OSC 1.2.5 has been included to replace condition W1(i) of the old format licence.</p> <p>Old format licence conditions S1(a) and S1(c) are replaced by standard general condition 1.2.1 and do not need to be included on the licence in a specific condition.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i></p>
Premises operation	L1.3.1 – L1.3.4 L1.3.5 L1.3.6	OSC OSC OSC	<p>Contaminated wastewaters entering the environment from the operation of the wastewater treatment ponds and infiltration area has not been reassessed as part of this amendment.</p> <p>OSC 1.3.1 has been included because there is a numerical limit in Table 1.3.3. OSC 1.3.2 includes waste acceptance type and specifications. OSC 1.3.3 has been included to replace the licensed throughput of the old format licence. The requirements for the temporary sewage sludge storage area in Table 1.3.4 have been included to replace condition S1(b)(iii) of the old format licence. OSC 1.3.5 has been included to replace condition W1(ii) – (v) of the old format licence. OSC 1.3.6 has been included to replace condition W6 of the old format licence.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i></p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i></p>



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
Emissions general	L2.1.1	OSC	A target will be set through condition 2.5.2 of the licence and therefore OSC 2.1.1 regarding recording and investigation of exceedances of limits or targets has been included.	N/A
Point source emissions to air including monitoring	N/A	N/A	There are no point source emissions to air from the premises.	N/A
Point source emissions to surface water including monitoring	L2.3.1 L3.3.1	OSC OSC	Point source emissions to surface water have not been reassessed as part of this amendment. OSC 2.3.1 has been included to identify the discharge point to Redman Brook. The map in Attachment 1 – Plan of Premises showed this in the old format licence.  OSC 3.3.1 has been included to replace part of condition W3 of the old format licence (monitoring of the WWTP discharge to Redman Brook (S8000397)). The old format licence included annual monitoring of “heavy metals”. Based on the 2013-2014 Annual Environmental Report for the Augusta WWTP, Water Corporation analysed the treated wastewater (discharge from WWTP infiltration area to Redman Brook) for heavy metals including: arsenic, cadmium, chromium, lead, mercury, nickel, selenium and zinc. These metals have been included on the licence to replace the requirement for “heavy metals” in the old format licence.	General provisions of the <i>Environmental Protection Act 1986</i>
Point source emissions to groundwater including monitoring	N/A	N/A	There are no point source emissions to groundwater from the premises.	N/A
Emissions to land including monitoring	L2.5.1 L2.5.2 L3.5.1	OSC OSC OSC	<u>Emission Description</u> <i>Emission:</i> Treated wastewater is discharged to an infiltration area. <i>Impact:</i> If water containing excessive nutrients or other contaminants is discharged to land, the soil can become contaminated and there can be impacts	General provisions of the <i>Environmental Protection Act</i>





## 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
			<p>of surface water or groundwater as the contaminants are carried down to the groundwater or run-off to surface water. <i>Controls:</i> Wastewater is treated to a secondary standard by the treatment plant and is discharged to the infiltration area.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Risk rating:</i> Moderate</p> <p><u>Regulatory Controls</u> OSC 2.5.1 describes the emission point for discharges to land as the map in Attachment 1 – Plan of Premises did in the old format licence. OSC 2.5.2 sets a target for biochemical oxygen demand. This replaces an expectation of the WWTP performance that was outlined in the preamble of the old format licence; which stated that it is expected that the treatment plant will be operated to “achieve a target filtered 5-day biochemical oxygen demand (BOD) discharge concentration of less than 20 mg/L”. DER prefers for BOD (unfiltered) to be monitored; therefore, the target has been increased to 30 mg/L. The licence includes conditions on the management of the infiltration area (OSC 1.3.6) to ensure that the area is managed appropriately and thereby prevent impacts. Comprehensive monitoring of the emissions to land is described in OSC 3.5.1. This monitoring enables the calculation of loading based on the quality and quantity of wastewater discharged to the infiltration area. The monitoring of Escherichia coli has been decreased from monthly to quarterly with this amendment to align with the monitoring of other parameters at the site as the treated wastewater is not being irrigated nor directly discharged to a water body (during winter treated wastewater from the infiltration area enters Redman Brook – see Point Source emissions to surface water section for more information); therefore the risk to human health is minimal.</p>	1986



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
			<u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Possible <i>Risk rating:</i> Moderate	
<b>Fugitive emissions</b>	N/A	N/A	Fugitive emissions have not been reassessed as part of this amendment. As the old format licence did not impose any fugitive emission controls, no specified conditions have been included in this section. SC 1.2.1 applies.	General provisions of the <i>Environmental Protection Act 1986</i>
<b>Odour</b>	N/A	N/A	Odour emissions have not been reassessed as part of this amendment. As the old format licence did not impose any odour emission controls, no specified conditions have been included in this section. SC 1.2.1 applies.	General provisions of the <i>Environmental Protection Act 1986</i>
<b>Noise</b>	N/A	N/A	Noise emissions have not been reassessed as part of this amendment. As the old format licence did not impose any noise emission controls, no specified conditions have been included in this section. The <i>Environmental Protection (Noise) Regulations 1987</i> and SC 1.2.1 apply.	General provisions of the <i>Environmental Protection Act 1986</i>
<b>Monitoring general</b>	L3.1.1 – L3.1.5	OSC	<p>Monitoring requirements have not been reassessed as part of this amendment. As monitoring of emissions to land and surface water are required (see Emissions to Surface Water and Emissions to Land sections above) OSCs 3.1.1 to 3.1.5 are included as general monitoring conditions.</p> <p>Additionally, OSC 3.1.1 has been included to replace conditions W4(a) and W4(b) of the old format licence.</p>	General provisions of the <i>Environmental Protection Act 1986</i>
<b>Monitoring of inputs and outputs</b>	L3.6.1	OSC	Monitoring of inputs and outputs has not been reassessed as part of this amendment. OSC 3.6.1 has been included to monitor the amount of sewage being accepted at the premises. Additionally, the monitoring of treated wastewater discharged from the final treatment pond (via the flume) has been	General provisions of the <i>Environmental Protection Act</i>



## 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
			included in the licence as part of OSC L3.6.1 to replace part of condition W2 of the old format licence.	1986
<b>Process monitoring</b>	N/A	N/A	Monitoring requirements have not been reassessed as part of this amendment. As the old format licence did not include conditions on process monitoring no specified conditions have been included in this section.	N/A
<b>Ambient quality monitoring</b>	L3.8.1	OSC	Monitoring requirements have not been reassessed as part of this amendment. Table 3.8.1, as part of OSC 3.8.1, has been included to replace part of condition W3 of the old format licence (Redman Brook Gauging Station S8000076 and Redman Brook downstream of WWTP S8000075 surface water monitoring). Table 3.8.2, as part of OSC 3.8.1, has been included to replace part of condition W3 of the old format licence (groundwater monitoring of bores 1 – 6).	General provisions of the <i>Environmental Protection Act 1986</i>
<b>Meteorological monitoring</b>	N/A	N/A	Monitoring requirements have not been reassessed as part of this amendment. As the old format licence did not include conditions on meteorological monitoring no specified conditions have been included in this section.	General provisions of the <i>Environmental Protection Act 1986</i>
<b>Improvements</b>	N/A	N/A	No improvement conditions are required in this licence.	N/A
<b>Information</b>	L5.2.1 – 5.2.3 L5.3.1	OSC OSC	SC 5.2.1 – 5.2.3 have been included in this licence to replace conditions G1, G2, part of W2 and part of W5 of the old format licence. OSC 5.3.1 has been included to replace conditions S1(b)(i) and (ii) of the old format licence.	N/A
<b>Licence Duration</b>	N/A	N/A	As this is a medium priority premises it is recommended that this licence be issued for a period of five (5) years; therefore the expiry date of the licence will be extended to October 2019.	N/A





## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
25/08/2014	Application advertised in West Australian (or other relevant newspaper)	No comments received	N/A
20/10/2014	Proponent sent a copy of draft instrument	Comments included: <ul style="list-style-type: none"><li>- adding "and tankered waste" to Table 1.3.2;</li><li>- queried the condition to measure inflow in Table 3.6.1; and</li><li>- queried the use of forms for reporting.</li></ul>	<ul style="list-style-type: none"><li>- Table 1.3.2 was updated to include the tankered waste;</li><li>- inflow is required to be measured to ensure the plant does not exceed the approved premises production or design capacity; and</li><li>- removed the requirement to use specific forms for reporting (except for the AACR and N1 forms).</li></ul>
22/01/2015	Proponent sent a copy of draft instrument	Comments included: <ul style="list-style-type: none"><li>- remove "inlet works (drum screen)" and "grit and screenings" from condition 1.3.4 as this technology is not at the site;</li><li>- remove target for BOD at W1;</li><li>- increase target for BOD to 30 mg/L as previous target was 20 mg/L for 5-day filtered BOD;</li><li>- remove requirement to monitor flow at W1;</li><li>- update map to include references to L1 and W1; and</li><li>- decrease Escherichia coli monitoring from monthly to quarterly to align with frequency of other monitoring at the site.</li></ul>	<ul style="list-style-type: none"><li>- Table 1.3.4. was updated to remove references to "inlet works (drum screen)" and "grit and screenings";</li><li>- Condition 2.3.2 was removed as there is already a target for BOD at L1 (discharge to infiltration area) (condition 2.5.2);</li><li>- Target for BOD was raised to 30 mg/L at L1 (condition 2.5.2) (see Emissions to Land including Monitoring section for more details);</li><li>- Requirement to measure flow at W1 was removed as treated wastewater discharge flow is monitored at L1;</li><li>- Map was updated to include references to L1 and W1; and</li><li>- Escherichia coli monitoring was decreased (see Emissions to Land including Monitoring section for more details).</li></ul>



## 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

