



Licence

Environmental Protection Act 1986, Part V

Licensee: Water Corporation

Licence: L7691/1991/5

Registered office: 629 Newcastle Street
LEEDERVILLE WA 6007

Premises address: Three Springs Wastewater Treatment Plant
Water Street
THREE SPRINGS WA 6519
Being Lot 20 on Diagram 73005 as depicted in Schedule 1.

Issue date: Thursday, 16 October 2014

Commencement date: Sunday, 26 October 2014

Expiry date: Friday, 25 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	200 cubic metres per day

Conditions

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

Date signed: 12 November 2015

.....
Steve Checker
MANAGER LICENSING (WASTE INDUSTRIES)
Officer delegated under section 20
of the *Environmental Protection Act 1986*



Contents

Licence	1
Contents	2
Introduction	2
Licence conditions	5
1 General	5
2 Emissions	8
3 Monitoring	9
4 Improvements	11
5 Information	11
Schedule 1: Maps	14
Schedule 2: Reporting & notification forms	16

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.

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); and

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

This licence is issued to Water Corporation for the Three Springs Wastewater Treatment Plant (WWTP) located at Lot 20 on Diagram 73005 (Water Street). Three Springs WWTP is a prescribed premises within Schedule 1 of the *Environmental Protection Regulations 1987*, and includes:

- Primary treatment pond;
- Secondary treatment pond;
- Effluent storage pond (pond 3) with a sampling point located after pond 2.

The Licensee no longer discharges treated wastewater to the Shire for reuse which previously included approximately 40kL per day discharged from the premises to the Shire for reuse (irrigation to land).

Water Corporation discharge treated wastewater via a rocky gully to the local seasonal creek (located approximately 50m from the discharge point) which flows south towards the Yarra Yarra Lakes.

A desktop assessment of a groundwater bore (Bore Site Id. 12776794), approximately 148m east of the Premises, identified static water level at approximately 2.3m and TDS is approximately 8074 mg/L (saline). The groundwater forms part of the Yarra Monger catchment area which recharges the Yarra Yarra lake system.

The closest sensitive receptor to the Premises is approximately 375m north-west of the premises, and includes residential and commercial land-uses.

This Licence is as a result of an amendment sought to remove reuse of treated wastewater from the Licence. This activity is no longer occurring by the Licensee to the Shire. A 'P4 Form' was received from Water Corporation on 22 July 2015 requesting the amendment to be undertaken. In addition, the Licence has been converted to new format with administrative changes included.

The licences and works approvals issued for the Premises, since 28/07/1998, are:

Instrument log		
Instrument	Issued	Description
W2425/1991/1	28/07/1998	Works approval for construction of premises
W2857/1991/1	27/10/1999	Works approval
L7691/1991/1	06/11/2002	New licence
L7691/1991/2	26/10/2003	Licence reissue
L7691/1991/3	26/10/2004	Licence reissue
L7691/1991/4	26/10/2009	Licence reissue
L7691/1991/5	16/10/2014	Licence reissue and amendment to new format
L7691/1991/5	12/11/2015	Licence amendment and conversion to new format v2.9



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*;

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

'AS/NZS 2031' means the Australian Standard AS/NZS 2031 *Selection of containers and preservation of water samples for microbiological analysis*;

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

'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:

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*;

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

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

'Geobag' means a geotextile dewatering bag that allows solids to dewater over time while containing the solid component;

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

'in-situ soils' means soils that are in place and have not been moved from their original place of deposition;



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

'Licence' means this Licence numbered L7691/1991/5 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 accredited' means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

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

'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;

'six monthly' means the 2 inclusive periods from 1 July to 31 December and 1 January to 30 June in the following year;

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

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

'vessels' means any vessel or tank containment infrastructure associated with the treatment of wastewater.

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.

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

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

1.2 General conditions

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

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



- 1.2.3 The Licensee shall:
- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
 - (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.¹

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

1.3 Premises operation

- 1.3.1 The Licensee shall 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 1.3.1; and
 - (b) the quantity accepted is below any 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	Waste Code	Quantity Limit	Specification ¹
Putrescible and Organic wastes			
Sewage – waste from the reticulated sewerage system	K130	None specified	Accepted through sewer inflow(s) and via tankers 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 1.3.2 and in accordance with any process requirements described in that table.

Table 1.3.2: Waste processing

Waste type	Process	Process requirements
Sewage	Physical and biological treatment	Treatment of sewage waste shall be at or below the treatment capacity of 200 m ³ /day.

- 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 1.3.3.

Table 1.3.3: Containment infrastructure

Vessel or compound	Material	Requirements
Pond 1 (facultative pond)	Wastewater	Clay lined to achieve a permeability of <10 ⁻⁹ m/s.
Pond 2 (maturation pond)	Wastewater	
Pond 3 (effluent storage pond)	Wastewater	Lined with compacted in-situ soils

- 1.3.5 The Licensee shall manage all wastewater treatment, evaporation and storage ponds, such that:
- (a) overtopping of the ponds does not occur; and
 - (b) a freeboard equal to, or greater than, 300mm is maintained;



- (c) the integrity of the containment infrastructure is maintained;
- (d) trapped overflows are maintained on the outlet of ponds to prevent carry-over of surface floating matter; and
- (e) vegetation and floating debris (emergent or otherwise) is prevented from encroaching onto pond surfaces or inner pond embankments.

1.3.6 The Licensee shall:

- (a) implement security measures at the site to prevent as far as is practical unauthorised access to the site; and
- (b) undertake regular inspections of all security measures and repair damage as soon as practicable; and
- (c) ensure the entrance gates are closed and locked when the site is closed or unmanned; and
- (d) ensure perimeter valves on bunded areas are locked or otherwise secured in the closed position whilst the site is unattended.

2 Emissions

2.1 General

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

2.2 Point source emissions to surface water

2.2.1 The Licensee shall ensure that where waste is emitted to land from the emission points in Table 2.2.1 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

Table 2.2.1: Emissions to surface water

Emission point reference	Emission point	Description	Source including abatement
W1 (Creek)	Effluent storage pond (Pond 3)	Overflow of treated wastewater from pond 3 to the rock gully for disposal to seasonal creek.	Wastewater discharged from Pond 3 (effluent storage pond) to creek.



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 5667.6;
- (d) all groundwater sampling is conducted in accordance with AS/NZS 5667.11;
- (e) all microbiological samples are collected and preserved in accordance with AS/NZS 2031; and
- (f) 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) six monthly is undertaken at least 5 months apart.

3.1.3 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, and the requirements of the Licence.

3.1.4 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 surface water

3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

Table 3.2.1: Monitoring of point source emissions to surface water

Emission point reference	Monitoring point reference	Parameter	Units	Averaging Period	Frequency
W1	Pond 3 - sampling point	pH ¹	pH	Spot sample	Quarterly
		Electrical conductivity	µS/cm		
		5-day Biochemical Oxygen Demand	mg/L		
		Total Suspended Solids			
		Ammonium-Nitrogen			
		Nitrate + Nitrite-Nitrogen			
		Total Nitrogen			
		Total Phosphorus			
		<i>Escherichia coli</i> ²			

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

Note 2: Actual units are to be reported except where the result is greater than the highest detectable level of 24,000 cfu/100mL. In this case the reporting of the highest detectable level is permitted.



3.3 Monitoring of inputs and outputs

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 inputs and outputs

Input/Output	Monitoring point reference	Parameter ¹	Units	Averaging period	Frequency
Sewage - Inlet Flow	Inflow meter (M1)	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous
Treated wastewater overflow to creek	Outflow meter (M2)	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous

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

3.4 Ambient environmental quality monitoring

3.4.1 The Licensee shall undertake the monitoring in Tables 3.4.1 and 3.4.2 according to the specifications in those tables and record and investigate results that do not meet any target specified.

Table 3.4.1: Monitoring of ambient surface water quality

Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
Upstream and downstream creek sampling points	pH ¹	pH	Spot sample	Quarterly
	Electrical conductivity	µS/cm		
	Total Suspended Solids	mg/L		
	5-day Biochemical Oxygen Demand			
	Total Nitrogen			
	Ammonium-nitrogen			
	Nitrate + nitrite-nitrogen			
	Total Phosphorus			
<i>Escherichia coli</i> ²	cfu/100ml			

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

Note 2: Actual units are to be reported except where the result is greater than the highest detectable level of 24,000 cfu/100mL. In this case the reporting of the highest detectable level is permitted.

Table 3.4.2: Monitoring of ambient groundwater quality

Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
1/95; 2/95 and 3/95	Standing water level ¹	mBGL	Spot sample	Six monthly
	Total Dissolved Solids	mg/ L		
	Total Nitrogen			
	Total Phosphorus			

Note¹: In-situ non-NATA accredited analysis permitted.



4 Improvements

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

Table 4.1.1: Improvement program		
Improvement reference	Improvement	Date of completion
IR1	<p>The Licensee shall submit to the CEO a 'Discharge Management Plan' detailing the management of environmental risks associated with the discharge of wastewater from the premises to the associated seasonal creek.</p> <p>The plan should include, but not be limited to:</p> <ul style="list-style-type: none"> • Identification of potential risks to the local environment and potential risks downstream of the discharge point; • Measures to mitigate and manage identified risks; • Identifying any measures required to be implemented as a result of the Discharge Management Plan risk assessment and timeframes for implementation; and • A discussion of alternatives for reuse of wastewater. 	30/06/2016
IR2	<p>The Licensee shall submit to the CEO a report assessing the potential health risks associated with the discharge of wastewater to the seasonal creek adjacent to the premises.</p> <p>The report should include, but not be limited to:</p> <ul style="list-style-type: none"> • A summary of the outcomes of any consultation undertaken with Department of Health in relation to the discharge of wastewater to the unfenced seasonal creek area; and • Any measures required to be implemented as a result of the health risk assessment and timeframes for implementation. 	30/06/2016

5 Information

5.1 Records

5.1.1 All information and records required by the Licence shall:

- (a) be legible;
- (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- (c) except for records listed in 5.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.

5.1.2 The Licensee shall ensure that:

- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
- (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.



5.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.

5.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

5.2 Reporting

5.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 63 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or 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
Table 1.3.2	Summary of any treatment capacity exceedances and any action taken	None specified
1.3.5	Summary of any freeboard exceedances and any action taken	None specified
Table 3.2.1	Monitoring of point source emissions to surface waters	None specified
Table 3.3.1	Monitoring of inputs and outputs	None specified
	Methodology and calculations used to estimate the daily volumetric flow rate of treated wastewater pumped to Shire premises and results of those calculations.	None specified
Table 3.4.1	Summary of ambient surface water monitoring	None specified
Table 3.4.2	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 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 5.2.2 to the CEO at the Contact Address according to the specifications in that table.

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



5.3 Notification

5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO 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 requirement¹	Format or form²
-	Taking process equipment offline for maintenance works	No less than 72 hours in advance of works	None specified
-	Removal of sewage sludge from a treatment pond, wastewater treatment vessel, sewage sludge storage pond or Geobag	No less than 14 days in advance of works ³	
-	Groundwater bores being de-commissioned or rendered useless	Within 14 days	
1.3.1 and 2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next working day Part B: As soon as practicable	N1
3.1.4	Calibration report	As soon as practicable.	None specified
4.1.1	Improvement program	Submission to the CEO by no later than the completion date stated within the condition of the Licence	None specified

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

Note 3: The following information shall be included: (i) when desludging is proposed to occur, (ii) the desludging method, (iii) action to mitigate potential odour impacts, and (iv) the method by which the community will be advised of the desludging activities.



Schedule 1: Maps

Premises map

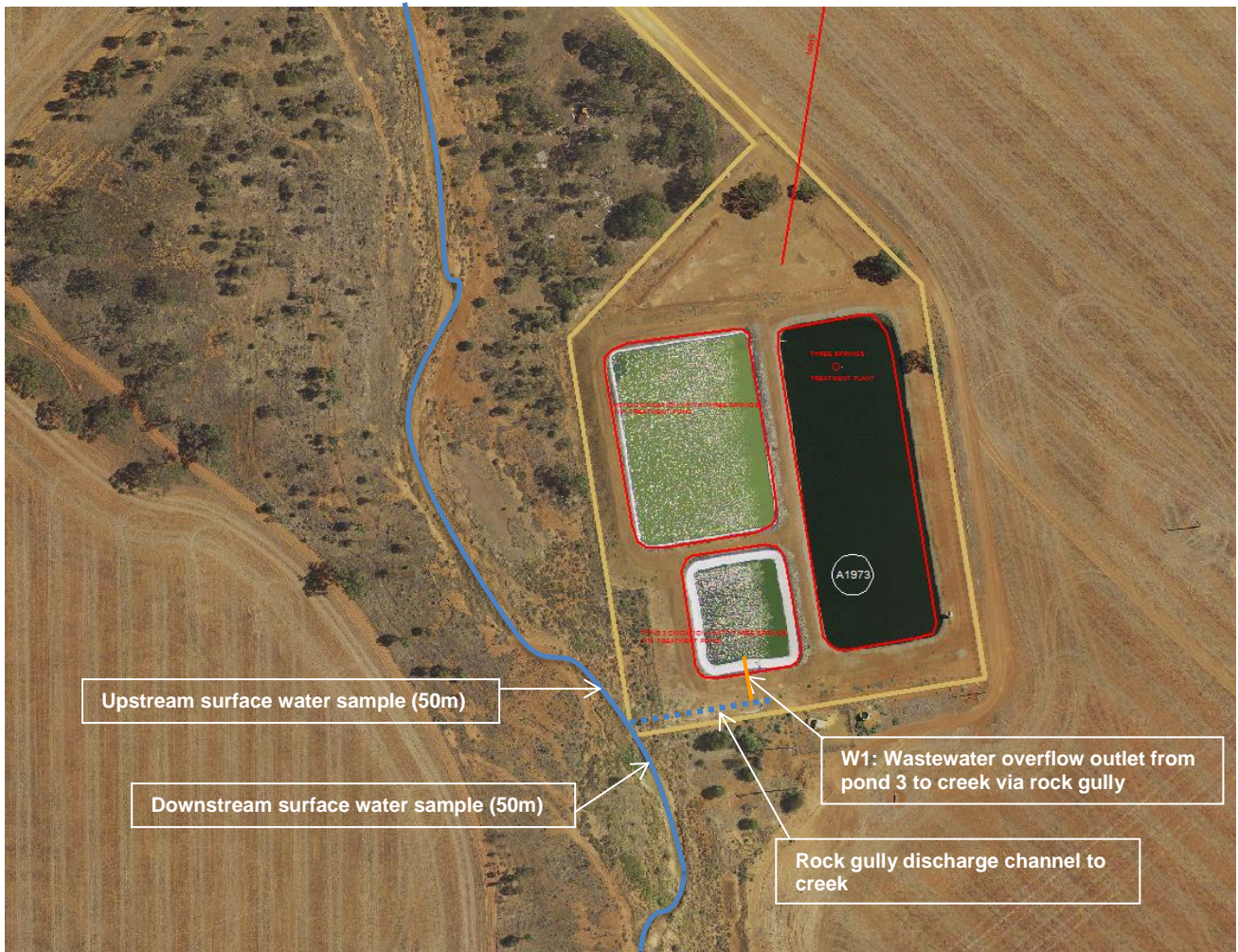
The Premises is shown in the maps below. The red line depicts the Premises boundary.





Map of surface water emission and monitoring points

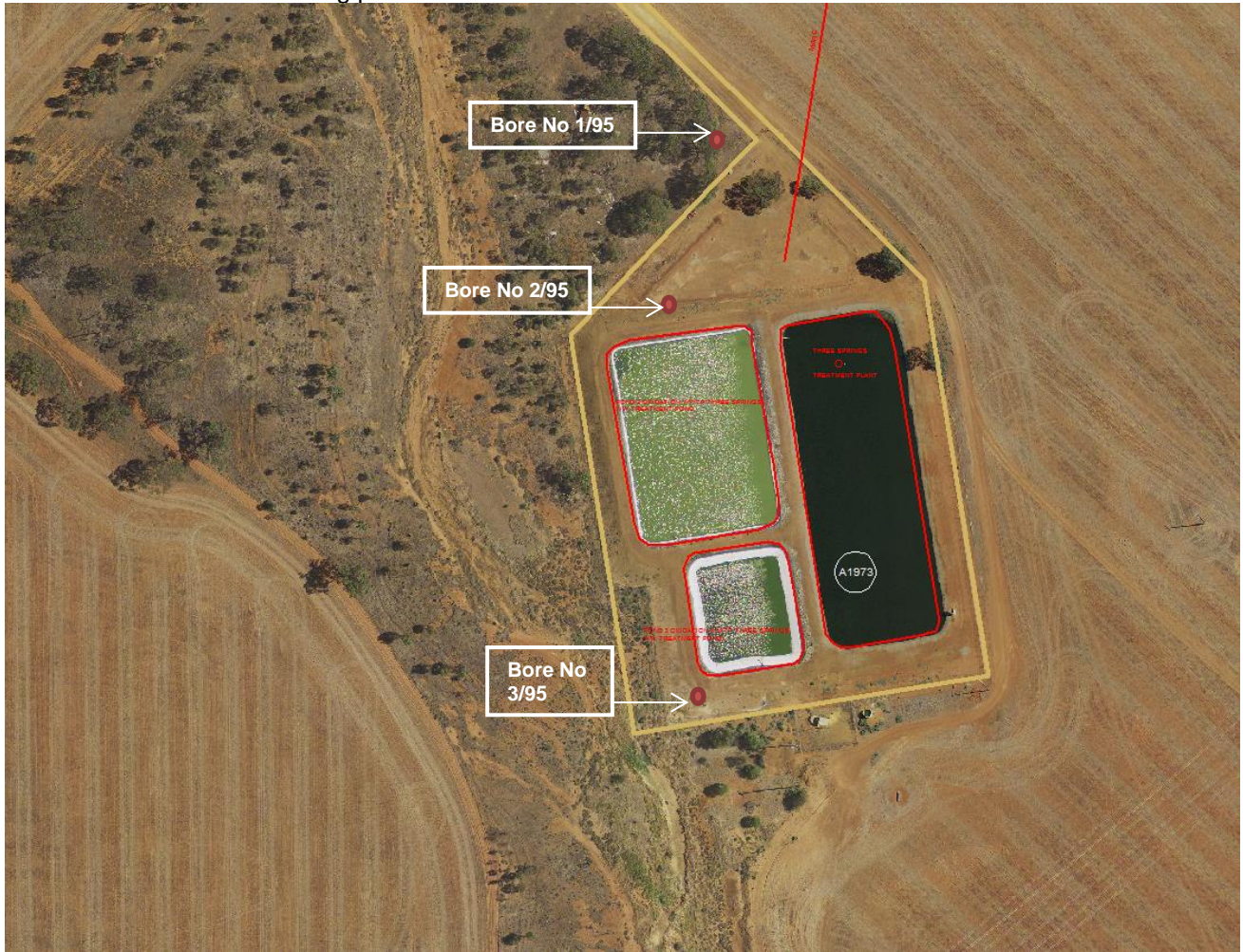
The locations of the emission and monitoring points defined in Tables 2.3.1, 3.3.1 and 3.8.1 shown below.





Map of ambient groundwater monitoring points

The locations of the monitoring points defined in Tables 3.8.2 shown below.





Schedule 2: Reporting & notification forms

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

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A LICENCE DETAILS

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

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

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

Yes Please proceed to Section C

No Please proceed to Section B

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

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

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

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

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <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: L7691/1991/5 Licensee: Water Corporation
 Form: N1 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 Water Corporation	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Water Corporation

Licence: L7691/1991/5

Registered office: 629 Newcastle Street
LEEDERVILLE WA 6007

Premises address: Three Springs Wastewater Treatment Plant
Water Street
THREE SPRINGS WA 6519
Being Lot 20 on Diagram 73005

Issue date: Thursday, 16 October 2014

Commencement date: Sunday, 26 October 2014

Expiry date: Friday, 25 October 2019

Decision

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

Decision Document prepared by: Caroline Conway-Physick
Licensing Officer

Decision Document authorised by: Steve Checker
Delegated Officer



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.



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	200 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	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"/>
		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 type="checkbox"/>	No <input checked="" type="checkbox"/>
		Ministerial statement No: EPA Report No:
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.		



3 Executive summary of proposal and assessment

This licence is issued to Water Corporation for the Three Springs Wastewater Treatment Plant (WWTP) located at Lot 20 on Diagram 73005 (Water Street), Three Springs. Three Springs WWTP is a prescribed premises within Schedule 1 of the *Environmental Protection Regulations 1987*, and includes a:

- Primary treatment pond;
- Secondary treatment pond;
- Polishing/evaporation pond (pond 3) with a sampling point located after pond 3.

The Licensee no longer discharges treated wastewater to the Shire for reuse which previously included approximately 40kL per day discharged from the premises to the Shire for reuse (irrigation to land).

Water Corporation discharge treated wastewater for infiltration via a rocky gully to the local seasonal creek (located approximately 50m from the discharge point) which flows south towards the Yarra Yarra Lakes.

A desktop assessment of a groundwater bore (Bore Site Id. 12776794), approximately 148m east of the Premises, identified static water level at approximately 2.3m and TDS is approximately 8074 mg/L (saline). The groundwater forms part of the Yarra Monger catchment area which recharges the Yarra Yarra lake system.

The closest sensitive receptor to the Premises is approximately 375m north-west of the premises, and includes residential and commercial land-uses.

This Licence amendment is as a result of the proponent requesting to remove reuse of treated wastewater from the Licence. This activity is no longer occurring by the Licensee to the Shire. A 'P4 Form' was received from Water Corporation on 22 July 2015 requesting the amendment to be undertaken. In addition, the Licence has been converted to new format with administrative changes included.



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			
Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.1-L1.2.3	Condition 1.2.2 of the previous licence version has been removed as part of the administrative changes to the Licence conversion to new format.	
Premises operation	L1.3.1-1.3.6	<p>An administrative change has been included within condition 1.3.2, table 1.3.1 to include the waste code for sewage (K130).</p> <p>Condition 1.3.5(b) freeboard has been changed from 'targeted' to 'maintained' in the management of freeboard and the potential risk of overtopping. Current DER procedure recommends the removal of all targets from the Licence with the use of improvement conditions where required.</p> <p>Water Corporation have reviewed this change to the Licence with no comment received in relation to the change.</p>	
Emissions general	L2.1-L2.2	Condition 2.2.1, table 2.2.1 has been updated to reflect the correct discharge process description to the surface water area. This is part of the request to amend submission received from the proponent through a 'P4 form' received 22/07/2015.	Application supporting documentation.
Point source emissions to surface water including monitoring	L2.2.1 L3.2.1	<p>Operation</p> <p><u>Emission Description</u></p> <p><i>Emission:</i> Treated wastewater discharged from WWTP to seasonal creek.</p> <p><i>Impact:</i> Potential contamination to the surrounding land, creek and groundwater through nutrient loading to the area.</p> <p><i>Controls:</i> The Licensee discharges excess treated wastewater from Pond 3 of</p>	General provisions of the <i>Environmental Protection Act, 1986</i> .



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		<p>approximately 44kL/ day via a rock gully for infiltration to the seasonal creek.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p>The standing water level is approximately 2.3m. TDS is approximately 8,074 mg/L (saline). The creek is seasonal and flows away from the town site in a southerly direction towards the Yarra Yarra lake system and is located outside of the fenced premises area with easy access by people and fauna.</p> <p>Sampling data supplied by Water Corporation (AER 2014) shows that the supplementary feeding of wastewater to the creek is causing artificial flow within the surface water system. The typical effluent quality being discharged from the premises aligns with the 'Australian guidelines for sewerage systems, 1997' (secondary treatment process category), except for TSS (80mg/L) and TP (14mg/L).</p> <p>When assessed against the 'Australian and New Zealand guidelines for fresh and marine water quality (ANZECC), 2000' (Table 5.2.2 and 5.2.3) – recreational guidelines and aesthetics, the discharged treated wastewater exceeds <i>E. coli</i> levels (1,600 cfu/100 ml), pH (9.07), TDS (2611 mg/L, however below background levels), and NH4-N (9.6mg/L).</p> <p>When the monitoring parameters for the creek sampling are assessed against groundwater parameters from the monitoring bores at the premises then pH, NH4-N, NO3+NO2-N, TN and TP are all elevated.</p> <p><u>Regulatory Controls</u> Condition 3.2.1 ensures monitoring of emissions discharged to the rock gully for</p>	<p>Australian guidelines for sewerage systems, 1997.</p> <p>Australian and New Zealand guidelines for fresh and marine water quality (ANZECC), 2000.</p> <p><i>Environmental Protection (Unauthorised discharges) Regulations, 2004.</i></p>



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		<p>infiltration to the creek occurs quarterly at the facility.</p> <p>Condition 4.1.1 Improvement conditions 'IR1' and 'IR2' requires the proponent to develop a discharge management plan and health risk assessment for disposal to the creek system.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Residual Risk Rating:</i> Moderate</p>	
Odour	L2.3	<p>Operation Condition 2.3.1 relating to odour has been removed from the licence through this amendment process.</p> <p><u>Emission Description</u> <i>Emission:</i> Odour from wastewater treatment ponds. <i>Impact:</i> Nuisance odour. <i>Control:</i> The facility is located approximately 375m from the closest human sensitive receptor which is a zoned residential and commercial land use area, with the majority of the surrounding area under agricultural landuse. The surrounding residential area is low density housing within a small town. The facility has a low throughput and has received no complaints relating to odour. The potential risk of odour from the premises is considered to be low.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory controls</u> Odour is considered low risk for the premises and is to be addressed under section 49</p>	General provisions of the <i>Environmental Protection Act, 1986.</i>



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		<p>of the <i>Environmental Protection Act, 1986</i>. This is in accordance with current DER procedure for the management of odour from the prescribed premises.</p> <p>Residual Risk <i>Consequence:</i> Minor <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p>	
Monitoring general	L3.1.1-L3.1.4	Condition 3.1.2 has had an administrative change included for the description of monthly monitoring for the facility (Condition 3.1.2(a)).	
Monitoring of inputs and outputs	L3.3.1	Condition 3.3.1, Table 3.3.1 'Monitoring of inputs and outputs' includes an administrative change to remove monitoring of treated wastewater to the Shire premises. This is as a result of the cessation of the reuse program as per the 'P4 form' received from the Licensee.	Application supporting documentation.
Improvements	L4.1.1	<p>Condition 4.1.1 has been included as a result of the premises process being altered. Previously the premises had been assessed for discharge of treated wastewater for reuse (irrigation) by the Shire with a DoH licence in operation.</p> <p>The Licensee no longer releases its treated wastewater to the Shire for reuse and approximately 44 cubic metres of treated wastewater are discharged to the seasonal creek as the primary method of disposal of wastewater from the premises. A request for further information was submitted to the Licensee (24/07/2015) to assess the potential risks from the discharge to the adjacent, unfenced seasonal creek. This has been defined further within the risk assessment within conditions 2.2.1 and 3.2.1 'Point source emissions to surface water including monitoring' above.</p> <p>The condition therefore includes two improvement conditions 'IR1' – 'Discharge Management Plan' and 'IR2' – 'Health Risk Assessment'.</p>	



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Licence section	Condition number L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Information	L5.1 L5.2 L5.3	Operation L5.2.1 has been amended to reflect 63 days for annual report submission date (1 September) after the end of the reporting period. Within Table 5.2.1 specific reporting 'format or form' requirements for submission of monitoring data for emissions to surface water or ambient groundwater quality, has been changed to 'none specified' as per ongoing discussions with Water Corporation. No other changes have been made as a result of the amendment process.	
Licence Duration	N/A	The Licence was issued for a period of five years and expires on 25 October 2019.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
25/08/2015	Proponent sent a copy of draft instrument	<p>An extension to the 21 day consultation period until 31/10/2015 was requested by Gordon Groth, Water Corporation. This was granted by R. Dowd (DER).</p> <p>Comments were received on 30/10/2015 from Craig Chaudhry (Water Corporation). The majority of comments were minor administrative changes, with one request for an extension to the improvement conditions completion timeframe.</p> <p>A copy of the changes was emailed through to Craig Chaudhry on 3/11/2015.</p>	<p>Administrative changes were completed for Tables 2.2.1, 3.3.1 and the introduction summary, as requested.</p> <p>Condition 4.1.1, Improvement conditions completion date was extended from 30/11/2015 to 30/06/2016 for 'IR1' and 'IR2'. This was discussed with Craig Chaudhry on 2/11/2015 with Steve Checker (DER, Manager Licensing).</p>



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