

Your ref: L5989/1991/11

Our ref:

2010/002537

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Mr Gordon Groth Water Corporation PO Box 100 LEEDERVILLE WA 6902

Dear Mr Groth

ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE

Licence No:

L5989/1991/11

Premises:

Northam Wastewater Treatment Plant

Further to my letter dated 4 December 2013, 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) 96213410 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

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

Mark Whiteley

Officer delegated under Section 20 of the Environmental Protection Act 1986

19 December 2013

enc: Environmental Protection Act 1986 Licence L5989/1991/11

Copy: Shire of Northam



LICENCE FOR PRESCRIBED PREMISES **Environmental Protection Act 1986**

LICENCE NUMBER: L5989/1991/11

FILE NUMBER: 2010/003537

LICENSEE AND OCCUPIER OF PREMISES

WATER CORPORATION 629 Newcastle Street LEEDERVILLE WA 6007 ABN: 28 003 434 917

NAME AND LOCATION OF PREMISES

Northam Wastewater Treatment Plant Crown Reserve 25729 NORTHAM WA 6401

PRESCRIBED PREMISES CATEGORY

Schedule 1 of the Environmental Protection Regulations 1987

CATEGORY	DESCRIPTION	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.	1500 cubic metres per day

CONDITIONS OF LICENCE

Subject to the conditions of licence set out in the attached pages.

Officer delegated under Section 20 of the Environmental Protection Act 1986

AMENDMENT DATE:

Thursday, 19 December 2013

COMMENCEMENT DATE: Tuesday, 4 December 2012

EXPIRY DATE:

Sunday, 3 December 2017

Page 1 of 10

LICENCE NUMBER: L5989/1991/11

FILE NUMBER: 2010/003537

DEFINITIONS

In these conditions of licence, unless inconsistent with the text or subject matter:

"ANZECC water quality guidelines" means the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000), as amended from time to time, developed under the National Water Quality Management Strategy;

"APHA-AWWA-WEF" means American Public Health Association (APHA), the American Water Works Association (AWWA) and the Water Environment Federation (WEF);

"AS/NZS 5667" means the most recent version of the relevant parts of the Australian Standard / New Zealand Standard 5667 – Water quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples, as amended or replaced from time to time;

"AS 3780" means the most recent version of the Australian Standard for The storage and handling of corrosive substances;

"biosolids guideline" means the "Western Australian Guidelines for Direct Land Application of Biosolids and Biosolids Products", (February 2002). Department of Environmental Protection, Water and Rivers Commission, Department of Health;

"Biochemical Oxygen Demand" means a water quality indicator which is reported in mg/L of oxygen and is a measure of the amount of oxygen used in the biochemical oxidation of organic matter in wastewater or a slurry and is generally tested over a period of 5 days under specified conditions (referred to as BOD_5)

"Director" means Director, Environmental Regulation Division of the Department of Environment Regulation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the *Environmental Protection Act 1986*;

"Director" or "Department of Environment Regulation" for the purpose of correspondence means:

Regional Leader, Industry Regulation Wheatbelt Region Department of Environment Regulation

75 York Road NORTHAM WA 6401 Telephone:

9621 3400

Facsimile: 9621 3410;

email: wheatbeltir@dec.wa.gov.au;

"discernible" means capable of being seen, noticed or observed;

"hardstand" means an area with a prepared (sealed) or natural surface which has a low permeability (i.e. having a hydraulic conductivity of less than 10⁻⁹ metres per second at unit hydraulic gradient) which prevents escapes of any liquids from the surface into the subsoil and groundwater;

"in writing" means correspondence via letter, electronic-mail or facsimile.

LICENCE NUMBER: L5989/1991/11

FILE NUMBER: 2010/003537

"Landfill Definitions" means the Landfill Waste Classification and Waste Definitions 1996 (As amended December 2009) Department of Environment and Conservation;

"mg/L" means milligrams per litre;

"NATA" means National Association of Testing Authorities; and

"premises" means Crown Reserve 25729, Northam (as depicted in Attachment 2).

GENERAL CONDITIONS

ENVIRONMENTAL IMPROVEMENT PLAN

- The licensee shall submit to the Director for approval an Environmental Improvement Plan by 30 June 2013.
- The Environmental Improvement Plan, see condition 1 of this licence, shall incorporate actions and associated completion dates to achieve the objective of meeting the ANZECC water quality guidelines for surface water for the discharge into the Avon River by the 31 December 2017.
- The licensee shall complete the action in the approved Environmental Improvement Plan by the dates specified in the plan.

MAINTENANCE OF WASTEWATER TREATMENT POND

- 4 The licensee shall manage the wastewater treatment pond in a manner such that:
 - (a) stormwater runoff resulting from site drainage shall be prevented from entering the wastewater treatment pond or causing the erosion of the outer pond embankment;
 - (b) overtopping of the wastewater treatment pond into the environment does not occur;
 - (c) there is no discernible seepage loss from the wastewater treatment pond; and
 - (d) vegetation (emergent or otherwise) shall be prevented from growing on the pond wastewaters or on the inner pond embankments.

DISCHARGE TO WATER

- 5 The licensee shall:
 - (a) make available treated wastewater for reuse; and
 - (b) only discharge to the Avon River surplus effluent that cannot be reused.
- The licensee shall ensure that when the Northam Shire cannot fully utilise all treated wastewater discharged from the wastewater treatment ponds, the final pond discharge concentration of total phosphorus is less than an arithmetical mean of 1.0 mg/L, when measured over 3 out of 4 consecutive sampling periods.

NUTRIENT IRRIGATION MANAGEMENT PLAN

The licensee shall develop a Nutrient Irrigation Management Plan by 30 June 2014 and submit it to be approved by the Director for reuse schemes.

FLOW MONITORING DEVICE

The licensee shall maintain devices for measuring monthly cumulative volumes of treated wastewater discharged for reuse and discharged to the environment. The monthly flow results shall be presented in the annual environmental report in a tabular form.

LICENCE NUMBER: L5989/1991/11 FILE NUMBER: 2010/003537

TREATED WASTEWATER SAMPLING REQUIREMENTS

- 9 The licensee shall collect all wastewater samples in accordance with the relevant parts of AS/NZS 5667.
- The licensee shall conduct a monitoring program which measures the parameters stated in column 2 of Table 1 at the frequency stated in column 3 of Table 1, using the corresponding methods listed in column 4 of Table 1 at the sample points stated in column 1 of Table 1 and as depicted in Attachment 2.

Table 1 Sampling and monitoring program

Column 1	Column 2	Column 3	Column 4
Monitoring site	Parameters to be measured*	Sampling frequency	Method
Post UV Wet Well sampling point (as	(a) Total suspended solids;(b) total dissolved solids;	Monthly	AS/NZS 5667
depicted in Attachment 2)	(c) biochemical oxygen demand; (d) total nitrogen; (e) ammonium-nitrogen; (f) nitrate + nitrite-nitrogen; (g) total phosphorus; (h) pH; (i) E. coli (coliform-forming units / 100 mL)		Standard Methods for Examination of Water and Wastewater – APHA- AWWA-WEF
Up-stream and Down- stream of Avon River	(a) total nitrogen; (b) ammonium-nitrogen;	Monthly when discharging to Avon	AS/NZS 5667
discharge point	(c) nitrate + nitrite-nitrogen; (d) total phosphorus;	River and the river is sufficiently	Standard Methods for Examination of Water and
	(e) pH; and (f) dissolved oxygen.	flowing	Wastewater – APHA- AWWA-WEF

^{*} With the exception of pH and E. coli, all measurements are to be reported in mg/L.

The licensee shall submit all water samples to a NATA accredited laboratory for the analyses specified in condition 10 of this licence for analysis in accordance with the "Standard Methods for Examination of Water and Wastewater-APHA-AWWA-WEF".

CALCULATION OF CONTAMINANT LOAD

- The licensee shall, using the data collected in accordance with conditions 8, 9, 10 and 11 of this licence, determine the three monthly and annual load of the following parameters in wastewater discharged from the premises:
 - (a) total suspended solids;
 - (b) biochemical oxygen demand;
 - (c) total nitrogen;
 - (d) total phosphorus; and
 - (e) E. coli (coliform-forming units/100 mL).
- 13 With the exception of *E. coli*, all measurements taken in accordance with condition 12 of this licence are to be reported in kilograms per day (kg/day).

ODOUR CONTROL

The licensee should manage and operate the premises such that odours emanating from the premises do not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person.

LICENCE NUMBER: L5989/1991/11

FILE NUMBER: 2010/003537

BUNDING AND CONTAINMENT

- The licensee shall store environmentally hazardous chemicals, including alum and hypochlorite (where the total volume of each substance stored on the premises exceeds 250 litres) within bunded areas in accordance with AS 3780.
- The licensee shall ensure that perimeter valves on bunded areas are locked or otherwise secured in the closed positions while the site is unattended.

DISCHARGE TO LAND

- 17 The licensee shall dispose of sewage sludge from the treatment ponds as depicted in Attachment 2 and collected vegetation / floating debris from the treatment pond to a licensed landfill or facility approved by the Director to accept biosolds.
- 18 The licensee shall:
 - (a) advise the Director in writing no less than seventy-two (72) hours prior to taking a treatment pond offline for maintenance works;
 - (b) advise the Director in writing no less than fourteen (14) days prior to the removal of sewage sludge from the treatment pond; and
 - (c) where sewage sludge is temporarily stored on-site, direct sewage sludge to a hardstand area which:
 - (i) is adequately bunded; and
 - (ii) returns sludge leachate back to the treatment ponds.
- 19 The licensee shall dispose of sludge and biosolids in accordance with the biosolids guideline or Landfill Definitions.

REPORTING CONDITIONS

ANNUAL ENVIRONMENTAL REPORT

- The licensee shall provide to the Director by **1 September** each year, a copy of an annual environmental report containing data collected during the period beginning 1 July the previous year and ending on 30 June in that year. The report shall contain, but not be limited to:
 - (a) monitoring data and other collected data required by any condition of this licence (data should be provided in tables and in graphical format);
 - (b) an explanation of the monitoring data and other collected data required by any condition of this licence:
 - (i) in comparison with past monitoring data collected for the previous three (3) years;
 - (ii) an explanation of the monitoring results with respect to the environmental impacts; and
 - (iii) an assessment against relevant environmental guidelines and any known standards:
 - (c) the number and type of complaints received, nature of complaint (cross referenced with prevailing wind directions) and action taken;
 - (d) any issues raised from inspections or incident responses during the reporting period together with details as to how these have been addressed / rectified or, if the required work has yet to be completed, how and when they will be completed / rectified:
 - (e) any changes to site boundaries, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution; and

LICENCE NUMBER: L5989/1991/11

FILE NUMBER: 2010/003537

(f) any discharges of treated wastewater to the environment.

ANNUAL AUDIT COMPLIANCE REPORT

The licensee shall by **1 September** in each year, provide to the Director an annual audit compliance report in the form in Attachment 1 to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the period beginning 1 July the previous year and ending on 30 June in that year.

Attachment 1 – Annual Audit Compliance Report

Licence Number:		Licence File Number:
Company Name:		ABN:
Ψ.		ADIV.
Trading as:		
Reporting period: ——	to	
TATEMENT OF COMPLIA	NCE WITH LICENCE CONDIT	IONS
. Were all conditions of lic appropriate box)	ence complied with within the re	eporting period? (please tick the
,		Yes □ Please proceed to Section
		No □ Please proceed to Section
	180	
C)		
	y the person(s) who signs Sect	ion C of this annual audit compliance
ach page must be initialed l port		

SECTION B - DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

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

a) Licenc	ce condition not complied with?				
b) Date(s) when the non compliance c	occurred, if appli	cable?		
c) Was th	nis non compliance reported to D	EC?			
Yes	Reported to DEC verbally Reported to DEC in writing		_	8	
d) Has D	EC taken, or finalised any action	in relation to the i	non compliance?		
e) Summ	ary of particulars of non compliar	nce, and what wa	s the environmental	impact?	
f) If releva	ant, the precise location where th	e non compliance	occurred (attach m	ap or diagram)	
g) Cause	of non compliance				
h) Action	taken or that will be taken to miti	gate any adverse	effects of the non co	ompliance	
i) Action t	aken or that will be taken to prev	ent recurrence of	the non compliance		
				×.	
ach page	must be initialed by the person(s	s) who signs Sect		audit compliance report INITIAL:	

SECTION C - SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report 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 Annual Audit Compliance Report 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	0	by the individual licence holder, or
an mulviduai		by a person approved in writing by the Chief Executive Officer of the Department of Environment and Conservation to sign on the licensee's behalf.
A firm or other	8	by the principal executive officer of the licensee; or
unincorporated company	۵	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 and Conservation.
		by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or
	0	by two directors of the licensee; or
A	0	by a director and a company secretary of the licensee, ог
A corporation	O	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
	0	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 and Conservation.
A public authority		by the principal executive officer of the licensee; or
(other than a local government)	0	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 and Conservation.
a local government	0	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)				

ATTACHMENT 2 - PLAN OF PREMISES AND SAMPLING POINTS

