



Licence Number	L6328/1991/9
Licence Holder	Water Corporation
ABN	28 033 434 917
Registered business address	629 Newcastle Street LEEDERVILLE WA 6007
File Number	DEC3083/1
Duration	29/10/2021 to 28/10/2041
Date of issue	19 October 2021
Premises Details	Pingelly Water Resource Recovery Facility Crown Reserve 37528 Marconi Street PINGELLY WA 6308 Being Lot 28614 on Diagram 30491 as depicted in Schedule 1.

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed design capacity
Category 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.	150 cubic metres per day

This Licence is granted to the Licence Holder, subject to the following conditions, on 19 October 2021, by:

Jane Dalin
Senior Environmental Officer
Industry Regulation

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Reference number	Issued	Description
L6328/1991/1	4/10/2000	Licence issued
L6328/1991/2	15/10/2001	Licence re-issue
L6328/1991/3	23/10/2002	Licence re-issue
L6328/1991/4	22/09/2003	Licence re-issue
L6328/1991/5	23/08/2004	Licence re-issue
L6328/1991/6	23/08/2006	Licence re-issue
L6328/1991/7	18/09/2008	Licence re-issue
L6328/1991/8	6/10/2011	Licence re-issue
W5508/2013/1	19/12/2013	Works approval
L6328/1991/8	15/02/2016	Licence amendment on completion of works upgrade
L6328/1991/9	19/10/ 2021	Replacement licence issued

Definitions and interpretation

Definitions

In this Licence, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
ACN	Australian Company Number
annual period	means a 12 month period commencing 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 5667.10	means the Australian Standard AS/NZS 5667.10 Water Quality – Sampling – Guidance on sampling of waste waters
averaging period	means the time over which a limit is measured or a monitoring result is obtained
Books	has the same meaning given to that term under the EP Act.

Term	Definition
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
controlled waste	has the definition in <i>Environmental Protection (Controlled Waste) Regulations 2004</i> ;
Department	means the department established under section 35 of the Public Sector Management Act 1994 and designated as responsible for the administration of Part V, Division 3 of the EP Act.
Department Request	means a request for Books or other sources of information to be produced, made by an Inspector or the CEO to the Licence Holder in writing and sent to the Licence Holder's address for notifications, as described at the front of this Licence, in relation to:
emergency event	means a '1 in 10' year, 72 hour rainfall event or greater;
Emission	has the same meaning given to that term under the EP Act.
Environmental Harm	has the same meaning given to that term under the EP Act.
EP Act	means the <i>Environmental Protection Act 1986 (WA)</i> .
EP Regulations	means the <i>Environmental Protection Regulations 1987 (WA)</i> .
freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point
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	refers to this document, which evidences the grant of a Licence by the CEO under s.57 of the EP Act, subject to the Conditions.
licence holder	refers to the occupier of the premises being the person to whom this Licence has been granted, as specified at the front of this Licence.

Term	Definition
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	refers to the premises to which this Licence applies, as specified at the front of this Licence and as shown on the map in Schedule 1 to this Licence.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Schedule 1	means Schedule 1 of this Licence unless otherwise stated.
sewage	means waste containing faecal matter or urine
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.

Interpretation

In this Licence:

- (a) the words ‘including’, ‘includes’ and ‘include’ will be read as if followed by the words ‘without limitation’;
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a Condition, each row in a table constitutes a separate Condition;
- (d) any reference to an Australian or other standard, guideline or code of practice in this Licence means the version of the standard, guideline or code of practice in force at the time of granting of this Licence and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the Licence; and
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

General

1. The licence holder shall only allow waste to be accepted on to the Premises if:
 - (a) it is of a type listed in Table 2; and
 - (b) the quantity accepted is below any limit listed in Table 2; and
 - (c) it meets any specification listed in Table 2

Table 2: Waste acceptance

Waste	Waste Code	Quantity Limit	Specification ¹
Putrescible and Organic Wastes			
Sewage – waste from the reticulated sewerage system	K130	150 cubic metres/day	Accepted through sewer inflows and/or tankered into the premises during emergency events and/or maintenance work and discharged directly into the primary pond.

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

2. The licence holder shall ensure that the wastes accepted onto the Premises are only subjected to the process(es) set out in Table 3 and in accordance with any process requirements described in that table.

Table 3: Waste processing

Waste type	Process	Process requirements
Sewage	Physical and biological treatment	Treatment of sewage waste shall be maintained at or below the treatment capacity of 150m ³ /day.
Sewage sludge	Storage	Stored within geobags on a bunded hardstand area.

3. The licence holder shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 4

Table 4: Containment infrastructure

Vessel or compound	Material	Requirements
Anaerobic Tank	Wastewater	Impermeable (concrete)
Pond 1 (Primary pond)	Wastewater	<ul style="list-style-type: none"> Clay lined to achieve a permeability of less than 10⁻⁹ m/s or equivalent (compacted, in-situ soils); Depth of 1.6 m; Size: 60.5 x 40.5 m.
Pond 2 (Maturation pond)	Wastewater	<ul style="list-style-type: none"> Clay lined; Depth 1.2 m; Size: 62.7 x 30 m; Baffle curtain
Shire pumping pond	Treated Wastewater	<ul style="list-style-type: none"> In-situ soils.

Sewage sludge drying bed (Hardstand)	Sewage sludge	<p>Temporary or permanent infrastructure to consist of a bunded hardstand or lined area to achieve a permeability of less than 10^{-9} m/s or equivalent, capable of preventing surface run-off of leachate and sludge and which includes a leachate collection system.</p> <p>The sewage sludge drying bed should be managed such that:</p> <ul style="list-style-type: none"> (a) stormwater runoff is prevented from entering the area; (b) discharges/ leachate from the area are directed to the primary pond.
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4. The licence holder shall manage all wastewater treatment, evaporation, and infiltration ponds such that:
 - (a) overtopping of the ponds does not occur;
 - (b) a freeboard equal to, or greater than, 500mm 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.
5. The licence holder 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.

Emissions

Point source emissions to surface water

6. The licence holder shall ensure that where waste is emitted to surface water from the emission points in Table 5, and identified on the map of emission points in Schedule 1, it is done so in accordance with the conditions of this Licence.

Table 5: Emission points to surface water

Emission point reference	Description	Source including abatement
Monitoring Flume S7000639 (as per Schedule 1: Maps)	Discharge from final treatment pond via Shire pumping pond, to a tributary of the Avon River	Treated wastewater

Emissions to land

7. The licence holder shall ensure that where waste is emitted to land from the emission points in Table 6 and identified on the map of emission points in Schedule 1, it is done so in accordance with the conditions of this Licence.

Table 6: Emissions to land

Emission point reference	Emission point reference on Map of emission points	Description	Source including abatement
S7000625 (as per Schedule 1: Maps)	Final treatment pond – Pond 2	Discharge of wastewater from final treatment pond, via Shire pumping pond, to Shire reuse pond	Treated wastewater from final treatment pond only

Monitoring

General monitoring

8. The licence holder 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 microbiological samples are collected and preserved in accordance with AS/NZS 2031; and
 - (d) 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.
9. The licence holder shall ensure that monthly monitoring is undertaken at least 15 days apart.
10. The licence holder 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.
11. The licence holder 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.

Monitoring of point source emissions to surface water

12. The licence holder shall undertake the monitoring in Table 7 according to the specifications in that table.

Table 7: Monitoring of point source emissions to surface water

Monitoring point reference	Parameter	Units	Frequency
S7000639 – Monitoring flume (as per Schedule 1: Maps)	pH ¹	pH units	Monthly
	<i>E.coli</i> ²	cfu/100ml	
	Total Nitrogen	mg/L	
	Total Phosphorous		
	Biochemical oxygen demand		
	Total suspended solids	m³/day	Continuous
	Volumetric flow rate		

Note 1: In-situ non-NATA accredited sampling 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

Monitoring of emissions to land

13. The Licensee shall undertake the monitoring in Table 8 according to the specifications in that table.

Table 8: Monitoring of emissions to land

Emission point reference	Monitoring point reference	Parameter	Units	Averaging Period	Frequency
S7000071 – final effluent sample point (as per Schedule 1: Maps)	Sampling point in the outlet pipe from pond 2, prior to the Shire pumping pond	pH ¹	-	Spot Sample	Monthly
		Biochemical Oxygen Demand	mg/L		
		Total Dissolved Solids			
		Total Suspended Solids			
		Nitrate + Nitrite-nitrogen			
		Ammonium-nitrogen			
		Total Nitrogen			
		Total Phosphorus			
		<i>Escherichia coli</i> ²	cfu/100 mL		

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.

Monitoring of inputs and outputs

14. The Licensee shall undertake the monitoring in Table 9 according to the specifications in that table.

Table 9: Monitoring of inputs and outputs

Input/Output	Monitoring point reference	Parameter ¹	Units	Averaging period	Frequency
Sewage - Inlet Flow	Inlet sample point S7000069, or monitoring flume prior to 'pond 1'	Volumetric flow rate (cumulative) or mass balance calculation	m ³ /day	Monthly	Continuous
Treated wastewater discharged to Shire reuse pond	Magflow meter - S7000625	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous
Treated wastewater discharged to the Avon River	Monitoring flume - S7000639	Volumetric flow rate (cumulative) or mass balance calculation			Continuous

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

Records and reporting

15. All information and records required by the Licence shall:
- be legible;
 - 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 15 (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.
- 16.** 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.
- 17.** The licence holder must:
- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
 - (b) prepare and submit to the CEO, by no later than 93 calendar days after the end of that annual period, an Annual Audit Compliance Report (AACR) in the approved form.
- 18.** The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
- (a) the name and contact details of the complainant, (if provided);
 - (b) the time and date of the complaint;
 - (c) the complete details of the complaint and any other concerns or other issues raised; and
 - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
- 19.** The Licensee shall submit to the CEO an Annual Environmental Report within 93 calendar days (1 October) after the end of the annual period. The report shall contain the information listed in Table 10 in the format or form specified in that table.

Table 10: 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 3	Summary of any treatment capacity exceedances and any action taken	None specified
Table 4	Summary of waste processing	None specified
Condition 4	Summary of any freeboard exceedances and any action taken	None specified
Table 7	Monitoring of point source emissions to surface water	None specified
Table 8	Monitoring of emissions to land	None specified
Table 9	Monitoring of inputs and outputs	None specified
	Methodology and calculations used to estimate the daily volumetric flow rate of treated wastewater pumped to	

	evaporation ponds and discharge to the tributary of the Avon River, and results of those calculations	
Condition 17	Compliance	AACR form
Condition 18	Complaints summary	None specified

20. The Licensee shall ensure that the Annual Environmental Report also contains:
- (a) any relevant process, production or operational data recorded; and
 - (b) an assessment of the information contained within the report against previous monitoring results and Licence limits.

Notification

21. The Licensee shall ensure that the parameters listed in Table 11 are notified to the CEO in accordance with the notification requirements of the table.

Table 11: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form
-	Taking process equipment offline for maintenance works that may result in increased odour emissions	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 area or Geobag	No less than 14 days in advance of works ²	

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

Note 2: 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

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

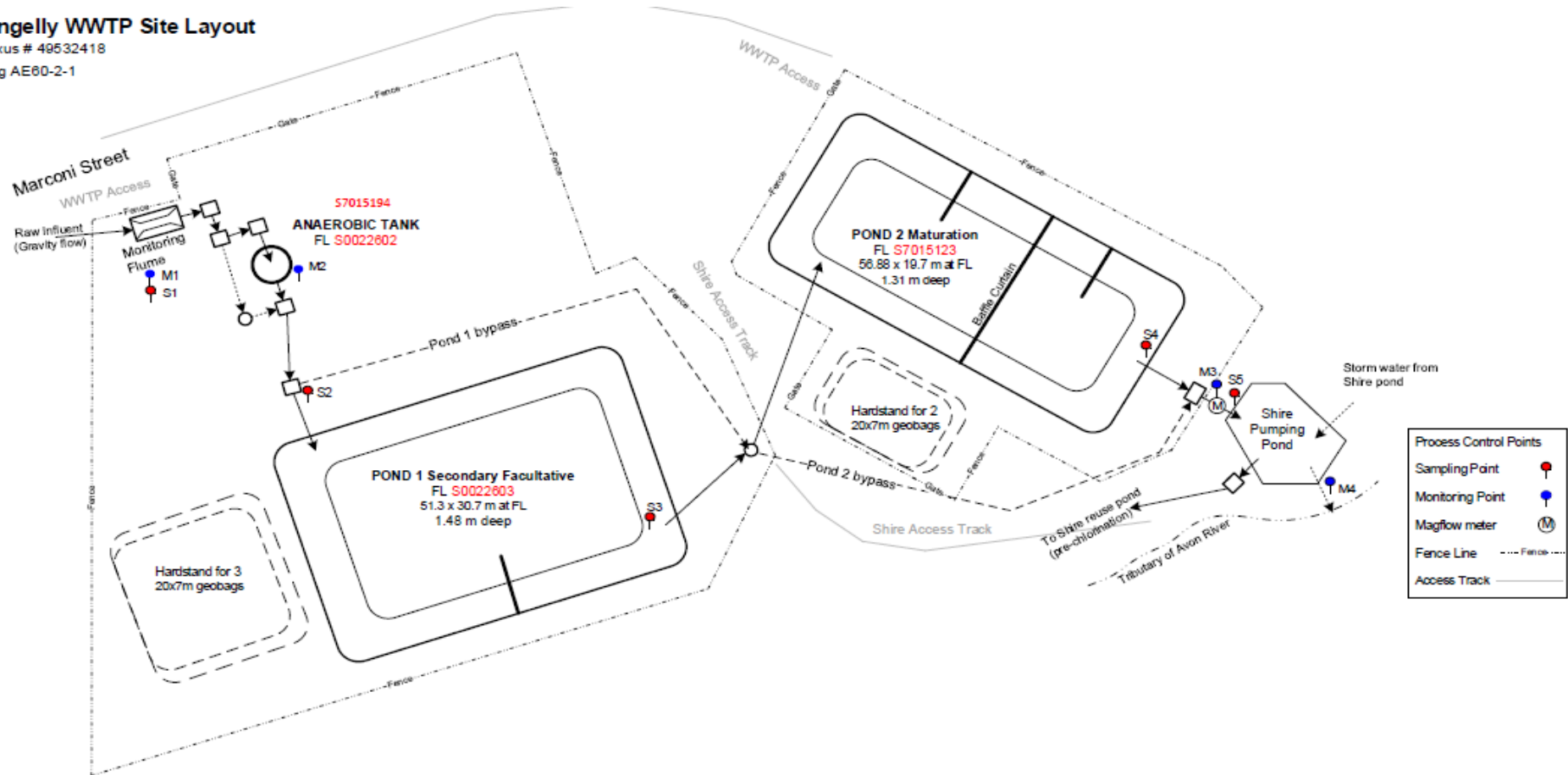


Attachment 1: Premises map (as supplied by licence holder)

Pingelly WWTP Site Layout

Nexus # 49532418

Dwg AE60-2-1



Monitoring Points		Sampling Points	
M1	S7013557	Pingelly WWTP Flume Inflow Measure	S1 S7000069
M2	S7016213	Tank Anaerobic WWTP Pingelly (sludge depth)	S2 S7015194
M3	S7000625	Pingelly WWTP Discharge Pond Flow Meter	S3 S7015108
M4	S7000639	Pingelly Data Logger WWTP	S4 S7015193
			S5 S7000071

Pond Dimensions						
Pond	Length at FL [m]	Width at FL [m]	Depth [m]	Bank Slope	Area [m ²]	Volume [kL]
Pond 1	51.30	30.70	1.48	3:1	2,380	2,910
Pond 2	56.88	19.70	1.31	3:1	1,780	1,890

* Values provided are based on best information. Further detailed information on system configuration can be referenced in aquaDRAW.

Attachment 2 – site layout (as supplied by licence holder)-