

DWER Licence application

Parklands Abattoir

189 Rosamel Road, Parkfield, WA

Attachment 3B: Proposed Activities

1.0 Background

Parklands WA Pty Ltd (Parklands) is the current owner (occupier) and licence holder of the prescribed premises (sheep and cattle abattoir) located at 189 Rosamel Road, Parkfield (Lot 300 on Plan 37367). Parklands acquired the premises in 2022 after the previous occupier (Goodchild Abattoirs Pty Ltd) was placed into voluntary administration in 2018 and operations ceased at the premises.

The premises is currently subject to the conditions of Licence L5423/1990/15 granted by the Department of Water and Environmental Regulation (DWER) under Part V of the *Environmental Protection Act 1986* and is due to expire 30/09/2025. To reduce monitoring requirements associated with L5423/1990/15, in 2022 the premises was placed into 'care and maintenance' while non-operational.

The approved prescribed premises categories and production/design capacities under Schedule 1 of the Environmental Protection Regulations 1987 and specified in Licence L5423/1990/15 are defined in Table 1.1.

Table 1.1: Prescribed premises categories

Category number	Description of category	Approved production capacity	Current/Expected production capacity
15	Abattoir: premises on which animals are slaughtered.	30,000 tonnes per annual period (liveweight)	0 tonnes per annual period (liveweight)
55	Livestock saleyard or holding pen: premises on which live animals are held pending their sale, shipment or slaughter	290,000 animals per annual period	0 animals per annual period

While activities under the prescribed premises categories are not currently undertaken, the long-term objective is to progress future developments consistent with these categories, with the ultimate intention of recommencing operations at the premises.

The occupier seeks to maintain licensing of the premises as a prescribed premises under Category 15 (Abattoir). Retaining this classification forms an integral part of the long-term business strategy and is essential to meet eligibility requirements for various funding and grant programs that are contingent on the premises being prescribed under this category. Accordingly, the occupier respectfully requests that prescribed premises categories not currently in operation be retained under the new licence.

It is acknowledged that Category 55 (Livestock saleyard or holding pen) is no longer applied to premises prescribed under Category 15, given that the associated environmental aspects (such as the generation of wastewater, manure, and odour) arising from the holding of livestock prior to slaughter are considered intrinsically linked to Category 15 primary activities. Therefore, the emissions, discharges, and environmental risks associated with livestock holding will be addressed and assessed as part of future Works Approval and licence applications under Category 15 (Abattoir).

The occupier further acknowledges that, in accordance with Part V of the Environmental Protection Act 1986, a Works Approval application will be submitted to DWER prior to the commencement of any construction, modification, or operation associated with these activities. No works or operations will be undertaken until a valid Works Approval has been granted.

1.1 Process summary

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**Note: The process summary and associated information provided in this licence application are consistent with the current scope of operations and the conditions outlined in Licence L5423/1990/15. A detailed and accurate summary of processing operations, along with all other relevant technical and environmental information, will be included in a future Works Approval application, prior to the commencement of any construction, modification, or operational activities at the premises.*

Location:	189 Rosamel Road, Parkfield, (Lot 300 On Deposited Plan 37367) approximately 15 km northeast of Bunbury, within the Shire of Harvey.
Site History:	<ul style="list-style-type: none"> o Beef and sheep abattoir has been in operation at the site since 1977. o Operations ceased at the premises in August 2018 when previous occupier (Goodchild Abattoirs Pty Ltd) was placed into voluntary administration. o Premises was placed into 'care and maintenance' by liquidators until sold. o Licence transferred to Parklands after taking ownership in 2022.
Scope:	<ul style="list-style-type: none"> o Receival and temporary holding of live animals (beef & sheep) pending their slaughter. o Slaughter and Primary processing of beef & sheep for meat production. o Collection of solid wastes (including offal, carcasses, blood, paunch material, and screening waste) for removal offsite to appropriately licensed facilities. o Treatment of wastewater and contaminated stormwater generated from processing and livestock holding yards areas via reverse osmosis (RO) wastewater treatment plant. o Reuse of treated wastewater for washdown of livestock yards or directed offsite to appropriately licensed disposal facility.
Capacity:	<ul style="list-style-type: none"> o 30,000 tons (liveweight) per year o 290,000 animals (beef/sheep) per year
Processing:	4-5 days per week

1.2 Premises Infrastructure & Equipment

Infrastructure and equipment Critical containment Infrastructure within the boundary of the premises relevant to this application are shown in Table 1.2 below.

Table 1.2.1: Infrastructure and equipment

GPS	Key infrastructure	Relevant category	Site plan	CCI (Yes/No)	Environmental Commissioning (Yes/No)
-33.208010, 115.722231	Aerobic Pond	15	F1 - AP	Yes	No*
-33.207459, 115.726735	Facultative Ponds		F2 – F7	Yes	No*
-33.208174, 115.724755	Wastewater storage tanks		TWWST	Yes	No*
-33.207478, 115.728232	RO Wastewater treatment plant		WWTP	Yes	No*
-33.207540, 115.723612	Solid waste storage area		SWS	Yes	No*
-33.207137, 115.724019	Blood containment tank		BCT	Yes	No*
-33.207459, 115.723826	Covered livestock holding yard		CLHY	No	No*
-33.207790, 115.724073	Open livestock holding yard		OLHY	No	No*
-33.207111, 115.723826	Abattoir processing facility		APS	No	No*

**Environmental commissioning shall be considered and assessed as part of future works approval application prior to bringing equipment and infrastructure back online.*

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Animals will be delivered to the premises in road trucks and unloaded into the livestock holding yards. Livestock deliveries are scheduled to ensure animals are processed within 24 hours of arrival on site.

Cattle are held in the livestock holding yards for 12 to 18 hours prior to slaughter.

Livestock are processed through the abattoir processing facility and either loaded out as carcase quarters/sides or packaged into cartons to off site cold stores.

1.4 Wastewater Treatment System (WWTS)

All wastewater and contaminated stormwater from the abattoir and associated livestock areas is directed to the Wastewater Treatment System (WWTS).

The current WWTS configuration includes:

- Primary and secondary screening systems.
- A HDPE-lined aerobic treatment pond.
- Six clay-lined facultative ponds.
- Reverse osmosis treatment plant.
- Treated water storage tanks for reuse (washdown water for livestock holding yards).

Treated wastewater may also be removed from the final facultative pond for offsite disposal to a licensed facility if required.

Wastewater monitoring

Monitoring of wastewater volumes and treated wastewater quality will be carried out in accordance with Table 1.4.1 below.

Monitoring Location (As depicted on Premises Map)	Process	Parameter	units	Frequency
PM1	Volume of abattoir wastewater discharged to aerobic pond	Volumetric flow rate	m ³ /day	Continuous
PM2	Volume of wastewater discharged from wastewater treatment plant for reuse or disposal	Volumetric flow rate	m ³ /day	Continuous
PM2	Quality of Wastewater discharged from the wastewater treatment plant for reuse or disposal	pH	mg/L	Monthly
		Total dissolved solids		
		total suspended solids		
		5-day BOD		
		total nitrogen		
		total kjeldahl nitrogen		
		Nitrite & nitrate nitrogen		
		ammonium-nitrogen		
		total phosphorus		

Groundwater monitoring infrastructure**Solid wastes & animal by-products**

All solid wastes and animal by products from the abattoir will be removed from the premises daily and directed to appropriately licensed facilities.

- Solid wastes are directed from the abattoir processing facility, livestock holding yards and solids screens to the concrete solid waste storage area. The solid waste storage area is appropriately bunded to prevent surface run-off of leachate the drainage system is directed to the WWTS.

Alternatively solid wastes will be directed to and held in impermeable fit for purpose collection trailers.

Solid wastes are removed from site to an appropriately licensed facility for further processing daily.

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- Animal blood is directed from the processing facility via dedicated plumbing to the blood containment tank and removed from site for further processing daily.
- Hides/skins are directed from the processing area to fit for purpose bins/creates and removed from site for further processing daily.

The table below shows the solid waste and animal by-product streams/destinations from the premises.

Table 1.3.1 Waste types

	Waste type	Storage infrastructure	Management	Monitoring (if applicable)	Location Premises Map
1	Blood	Enclosed, impermeable, elevated storage tank over a concrete bunded hardstand area capable of preventing surface run-off of blood	Removed off-site for further processing daily.	Quantity of waste removed from premises	BCT
2	Hooves, horns, inedible organs, offal, heads, paunch, fat, solids, bones	Directed to Impermeable fit for purpose collection trailer/vehicle located in the solid waste storage area. Alternatively, solid wastes will be stored on concrete bunded hardstand area prior to transferring to collection trailer.	Removed off-site for further processing daily.		SWS
	Screened wastewater solids Animal manure	Concrete bunded solid waste storage hardstand area preventing surface run-off of leachate and with a drainage system that can return leachate to the WWTS			
3	Hides / skins	Collected in purpose built bins.	Removed off-site for further processing daily.	Number of skins/ hides removed from premises daily.	SWS
4.	Wastewater/effluent from abattoir operations, Solid waste storage area, and Livestock holding yards.	<div>Aerobic pond with 1.5mm HDPE lining to achieve a permeability of <1x10⁻⁹ m/s.</div> <div>6 Clay lined facultative ponds</div> <div>2 enclosed, impermeable treated wastewater storage tanks</div> <div>Concrete bunded solid waste storage hardstand area capable of preventing surface run-off of leachate and with a drainage system that can return leachate to the WWTS</div> <div>WWTP and associated treatment tanks located within a concrete hardstand area</div>	<div>Routine monitoring of wastewater infrastructure and function to ensure:</div> <ul style="list-style-type: none"> - No overtopping of ponds occurs, - floating matter does not carry over from pond outlets, - top of embankment freeboard of 300mm is maintained, - stormwater does not enter ponds, - vegetation & floating debris doesn't encroach onto pond surface or embankment, - Integrity of infrastructure is maintained. 	<div>Abattoir wastewater discharged to aerobic pond (PM1)</div> <div>Wastewater discharged from the wastewater treatment plant for reuse or disposal (PM2)</div>	<ul style="list-style-type: none"> - F1 - F2-F7 - WWTP - TWWST