Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6511/2021/1
Works approval holder	Indpac Trading Australia Pty Ltd
ACN	603 400 746
Registered business address	5 Marion Street MIDLAND WA 6936
DWER file number	DER2020/000611
Duration	23/04/2021 to 22/04/2026
Date of transfer	16/10/2023
Premises details	Waroona Abattoir 86 Waterous Road WAGERUP WA 6215 Legal description – Lot 21 on Diagram 86238

Prescribed premises category description (Schedule 1, Environmental Protection Regulations 1987)	Assessed throughput
Category 15: Abattoir: premises on which animals are slaughtered	83,500 tonnes per year (hot standard carcase weight)

This works approval is transferred to the new works approval holder, subject to the attached conditions, on 16 October 2023, by:

Caron Goodbourn

Digitally signed by Caron Goodbourn
Date: 2023.10.16 11:58:52 +08'00'

Caron Goodbourn
MANAGER, PROCESS INDUSTRIES
REGULATORY SERVICES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Ref number	Summary of changes
23/04/2021	W6511/2021/1	Works approval granted
16/10/2023	W6511/2021/1	Works approval transferred from Prime Meat Co Pty Ltd to Indpac Trading Australia Pty Ltd

Interpretation

In this works approval:

(a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
(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 works approval:
  (i) if dated, refers to that particular version; and
  (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
(f) unless specified otherwise, all definitions are in accordance with the EP Act.

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

Works approval conditions

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

Construction phase

Infrastructure and equipment

1. The works approval holder must:

(a) construct the infrastructure and install the equipment;
(b) in accordance with the corresponding design and construction/installation requirements; and
(c) at the corresponding infrastructure location;

as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
Wastewater treatment plant infrastructure			
1	1 x Anaerobic Tank (Steel epoxy coating) 145 kL capacity	- Must be installed and maintained on an impermeable bunded hardstand surface where drainage is contained and all wastewater or spillages are contained and returned to the system for treatment;	As per Schedule 1: Map of key infrastructure
2	1 x Tank – Buffer for Filtration (Steel epoxy		

	Infrastructure	Design and construction / installation requirements	Infrastructure location
	coating) 35 kL capacity	- All tanks must be fitted with leak detection system and alarm	
3	1 x Tank – Buffer for Ultrafiltration (Steel epoxy coating) 95 kL capacity		
4	1 x Tank – Treated Water Storage (Steel epoxy coating) 985 kL capacity		
5	1 x Tank – Treated Water Storage (Concrete) 225 kL capacity		
6	1 x Excess Water Sump (Concrete Tank) 5 kL capacity		
Groundwater monitoring bores			
1	Recommissioning of groundwater monitoring bore 'MW1'	- Must be reinstalled to meet the requirements of *Minimum Construction Requirements for Water Bores in Australia;* - Must be surveyed to allow the ground level (to AHD) to be accurately determined; - Must be screened to permit effective monitoring of depth and quality of the shallow groundwater aquifer; - Must be installed prior to commencing time limited operations.	"MW1" in Schedule 1, Figure 2

2. The works approval holder must within 28 calendar days of an item of infrastructure required by condition 1 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and
(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

3. The Environmental Compliance Report required by condition 2, must include as a minimum:

(a) certification by a licensed professional engineer that the items of infrastructure or components thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
(b) 'as constructed' plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and
(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Critical containment infrastructure

4. The works approval holder must:

(a) construct the critical containment infrastructure;
(b) in accordance with the corresponding design and construction requirements; and
(c) at the corresponding infrastructure location;

as set out in Table 2.

Table 2: Critical containment infrastructure design and construction requirements

Infrastructure	Design and construction requirements	Location
Equalisation pond; Emergency pond	- Must reline existing ponds with a HDPE geomembrane with the following properties: • minimum thickness of 1.5 mm; • specific gravity of at least 0.94 (ASTM method D1505); • melt index of 0.05 g to 0.30 g in 10 minutes (ASTM method D1238, condition E 190/2.16); • carbon black content of 2-3% (ASTM method D1603) • minimum tensile strength at yield of 16,000 kN/m^2; • minimum tensile strength at break of 550 kN/m^2 (ASTM method D638, type IV 2); • minimum elongation at yield of 10%, and at break 300% (ASTM method D638); - Geomembrane must be laid over existing pond liner, with the following properties: • Seams and joins must be continuous, with panels of the liner to overlap by at least 100 mm, prior to heat welding or mechanical joining; • Membrane welding materials must be identical with the liner membrane; • All seams and joins must be constructed and tested as watertight over their full length using a vacuum test unit, air pressure testing or similar; • HDPE liner shear resistance must be tested in accordance with ASTM method D5321-02; - Must be designed such that overflow from the equalisation pond discharges to the emergency pond.	'Wastewater ponds', as depicted in map in Schedule 1.

5. The works approval holder must within 28 calendar days of the critical containment infrastructure listed in condition 4 being constructed:

(a) undertake an audit of their compliance with the requirements of condition 4; and
(b) prepare and submit to the CEO a Critical Containment Infrastructure Report on that compliance.

6. The Critical Containment Infrastructure Report required by condition 5 must include as a minimum the following:

(a) certification by a licensed professional engineer or accredited testing authority that each item of critical containment infrastructure or component thereof, as specified in condition 4, has been built and installed in accordance with the requirements specified in condition 4;
(b) as constructed plans and a detailed site plan showing the location and dimensions for each item of critical containment infrastructure or component thereof, as specified in condition 4;
(c) photographic evidence of the installation of the infrastructure; and
(d) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Time limited operations phase

Commencement and duration

7. The works approval holder:

(a) may only commence time limited operations for an item of infrastructure specified in condition 1, where the Environmental Compliance Report as required by condition 2 has been submitted by the works approval holder for that item of infrastructure; and

(b) may conduct time limited operations for an item of infrastructure specified in condition 1;

(i) for a period not exceeding 90 calendar days from the day the work approval holder meets the requirements of condition 7 for that item of infrastructure; or

(ii) until such time as a licence for that item of infrastructure is granted in accordance with Division 3 Part V of the *Environmental Protection Act 1986*, if one is granted before the end of the period specified in condition 7(b)(i).

8. The works approval holder may only commence time limited operations for an item of critical containment infrastructure specified in condition 4:

(a) where the CEO has notified the works approval holder the Critical Containment Infrastructure Report for that item of infrastructure as required by condition 5 meets the requirements of that condition; or

(b) where at least 10 business days have passed after the Critical Containment Infrastructure Report for that item of infrastructure as required by condition 5 has been submitted to the CEO.

Infrastructure and equipment

9. During time limited operations, the works approval holder must ensure the infrastructure listed in Table 3 is maintained and operated in accordance with the corresponding operational requirements set out in that table.

Table 3: Infrastructure and equipment requirements during time limited operations

Site infrastructure	Operational requirement	Infrastructure/ equipment location[1]
Abattoir infrastructure		
Lairage yards	- All manure and solid wastes must be removed from lairage yards on a daily basis; - All washdown water and surface water runoff must be captured by existing drainage channels and collected in the existing concrete-lined sump, for pumping to the WWTP	2
Blood storage tank	- Must comprise a HDPE tank or similar, with storage capacity at least 50 m^3; - Must be located on a bunded concrete pad, with bund having sufficient capacity to store 110% of the tank volume	9
Solid waste trailer - offal	- Comprises 10 – 20 tonne tipper trailers; - Must be located on an impermeable hardstand with drainage (sump and pump station) connection to the WWTP	7
Solid waste trailer - fat		6

Site infrastructure	Operational requirement	Infrastructure/ equipment location[1]
Abattoir infrastructure		
Solid waste trailer - bone		1
Solid waste trailer - paunch		4
Solid waste trailer – screened wastewater solids		11
Manure storage pad	- All collected manure from lairage yards and abattoir operations must be temporarily stored on the designated concrete manure pad (bunded impermeable hardstand); - All leachate and surface water runoff must be captured by existing drainage channels and collected in the existing concrete-lined sump, for pumping to the WWTP;	9
Quarantine pad	- All deceased animals must be temporarily stored on the designated quarantine pad (bunded impermeable hardstand); - All leachate and surface water runoff must be captured by existing drainage channels and collected in the existing concrete-lined sump, for pumping to the WWTP;	6
Wastewater treatment infrastructure		
WWTP	Must conduct weekly visual inspections of tanks and WWTP pipework leading to the ponds;	10
Equalisation pond	An operational freeboard of at least 500 mm must be maintained at all times.	4
Emergency pond		5

Note 1: Locations as per Schedule 1: Map of key infrastructure.

Emissions

Waste processing

10. During time limited operations, the works approval holder must manage waste as per the requirements of Table 4.

Table 4: Waste management requirements

Waste type	Operational requirement
Manure from lairage yards and abattoir operations	- All stockpiled manure and solid wastes must be removed off-site by a licensed controlled waste contractor at least every 2 weeks;
Blood	- Blood storage tank must be removed off-site by a licensed controlled waste contractor on a daily basis;
Heads, bone, soft offal, hooves & all other inedible organs	- Trailers must remain sealed at all times, except during loading; - Full trailers must be removed off-site by a licensed controlled waste contractor;

Hides & skins	- Must be stored in enclosed front lift bins or covered Marrel type skip bins on impermeable hardstand with drainage (sump and pump station) connection to the WWTP; - Must be removed off-site by a licensed controlled waste contractor;
Paunch	- Liquid component must be conveyed to the WWTP, with any solids captured by rotary screen and returned to the paunch storage for disposal; - Must be stored in covered hoppers and trailers and removed off-site by a licensed controlled waste contractor;
Fats & solids (WWTP)	- Fats from the wastewater treatment plant DAF units must be skimmed and conveyed to covered skip bins stored on impermeable hardstand, prior to transfer to covered 10-20 t tipper trailers; - Trailers must remain sealed at all times, except during loading; - Full trailers must be removed off-site by a licensed controlled waste contractor;
Screened wastewater solids (WWTP)	- Screened wastewater plant solids from the rotary screen and sludge screw press must be conveyed to covered skip bins, stored on impermeable hardstand; - Full bins must be removed off-site by a licensed controlled waste contractor;
Dead animals	- Deceased animals must be removed off-site by a licensed controlled waste contractor on a daily basis.

Monitoring

General monitoring

11. The works approval holder must ensure that:

(a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
(b) all groundwater sampling is undertaken in accordance with AS/NZS 5667.11; and
(c) 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.

12. The works approval holder must ensure that all monitoring equipment used on the premises to comply with the conditions of this works approval is calibrated in accordance with the manufacturer's specifications.

13. The works approval holder must, 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.

Ambient environmental monitoring

14. The works approval holder must undertake the monitoring in Table 5 according to the specifications in that table.

Table 5: Groundwater monitoring requirements

Monitoring location	Parameter	Unit	Frequency	Averaging period
MW1; MW2; MW3; MW4	Standing water level[1,2]	m (AHD)	At least once throughout the duration of this works approval	Spot sample
	pH[1]	-		
	Total dissolved solids[1]	mg/L		
	Total phosphorus			
	Total nitrogen, nitrate-nitrogen, nitrite-nitrogen, ammonium-nitrogen			
	Metals and metalloids: arsenic, mercury, zinc			

Note 1: In-field non-NATA accredited analysis permitted.
Note 2: SWL must be determined prior to the collection of other samples.

Records and reporting (general)

15. The works approval holder must record the following information in relation to complaints received by the works approval 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 works approval holder to investigate or respond to any complaint.

16. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

(a) the works conducted in accordance with conditions 1 and 4;
(b) any maintenance of infrastructure that is performed in the course of complying with condition 9;
(c) monitoring undertaken in accordance with condition 14; and
(d) complaints received under condition 15.

17. The books specified under condition 16 must:

(a) be legible;
(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
(c) be retained by the works approval holder for the duration of the works approval; and
(d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 6 have the meanings defined.

Table 6: Definitions

Term	Definition
AHD	Australian Height Datum
annual period	means the inclusive period from 1 January until 31 December in the same year
AS/NZS 5667.1	means the Australia Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples*
AS/NZS 5667.11	means the Australia Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*
ASTM method	means the American Society for Testing and Materials International – ASTM standard methods: • D638 – Tensile properties of plastics; • D1238 – Melt flow rate of thermoplastics; • D1505 – Density of plastics; • D1603 – Carbon black in olefin plastics; • D5321-02 – Shear resistance of geosynthetics
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
critical containment infrastructure (CCI)	means the items of infrastructure listed in condition 4
Critical Containment Infrastructure Report	means a report to satisfy the CEO that works of critical containment infrastructure have been constructed in accordance with the works approval.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
condition	means a condition to which this works approval is subject under s.62 of the EP Act
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
discharge	has the same meaning given to that term under the EP Act
emission	has the same meaning given to that term under the EP Act
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval
EP Act	*Environmental Protection Act 1986* (WA)
EP Regulations	Environmental Protection Regulations 1987 (WA)

Term	Definition
freeboard	means the distance between the maximum surface water elevations and the top of retaining banks or structures at their lowest point
Minimum Construction Requirements for Water Bores in Australia	means the document *Minimum Construction Requirements for Water Bores in Australia*, National Uniform Drillers Licensing Committee (3rd Edition, 2012)
NATA	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	the premises to which this works approval applies, as specified at the front of this works approval and as shown on the premises map in Schedule 1 to this works approval
prescribed premises	has the same meaning given to that term under the EP Act
professional engineer	means a person who holds a Bachelor of Engineering and has demonstrated experience working in the relevant discipline
spot sample	means a discrete sample representative of the time and place at which the sample is taken
time limited operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions
waste	has the same meaning given to that term under the EP Act
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval

END OF CONDITIONS

Schedule 1: Maps

Premises map, monitoring locations and containment infrastructure

The boundary of the prescribed premises is shown in the map below. The red line depicts the premises boundary, the green dots depict groundwater monitoring bores, and the yellow lines depict wastewater containment ponds.

Schedule 1: Maps

Map of key infrastructure