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|------------------------------------|--|
| Licence number | L7333/1997/10 |
| Licence holder | Vasse Felix Pty Ltd |
| ACN | 009 181 444 |
| Registered business address | Suite 1, 464 Murray Street PERTH WA 6000 |
| DWER file number | DEC7726/1 |
| Duration | 30/05/2014 to 29/05/2035 |
| Date of amendment | 24/09/2024 |
| Premises details | Vasse Felix Winery 71 Tom Cullity Drive COWARAMUP WA 6284 Being Lot 101 on Diagram 82806 as depicted in Schedule 1 |

| Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>) | Assessed production capacity |
|---|---|
| Category 25: Alcoholic beverage manufacturing: premises on which an alcoholic beverage is manufactured and from which liquid waste is or is to be discharged onto land or into water. | 2,100 kilolitres per year (wine produced) |

This licence is granted to the licence holder, subject to the attached conditions, on 24 September 2024 by:

Manager, Process Industries
INDUSTRY REGULATION

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

Licence history

| Date | Reference number | Summary of changes |
|------------|------------------|--|
| 22/05/2014 | L7333/1997/10 | Licence re-issue and format updated. |
| 12/05/2016 | L7333/1997/10 | CEO initiated licence amendment to correct administrative errors |
| 28/10/2022 | L7333/1997/10 | CEO initiated licence amendment following a review process initiated by concerns regarding the suitability of the wastewater treatment and disposal system at the premises. Key amendments include additional controls to manage the risk of impacts to receptors from the discharge of wastewater to the leach drains and update to licence format. |
| 19/12/2022 | L7333/1997/10 | CEO initiated licence amendment to correct unintended errors. |
| 24/09/2024 | L7333/1997/10 | Licence holder-initiated licence amendment to add constructed infrastructure from previous works condition and other administrative type changes. |

Interpretation

In this licence:

- (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 licence:
- (e) if dated, refers to that particular version; and
- (f) if not dated, refers to the latest version and therefore may be subject to change over time;
- (g) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (h) unless specified otherwise, all definitions are in accordance with 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:

Operation of infrastructure and equipment

- The licence holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 1.

Table 1 Infrastructure and equipment requirements

| Item | Site infrastructure and equipment | Operational requirement | Infrastructure location |
|------------------------------------|--|--|--|
| Wine production and storage | | | |
| 1 | <u>Winery building:</u> i. 55 fermentation/storage tanks with a total capacity of 1,999 kL ii. Sloped concrete floor with grated sumps and drainage channels | a) Maintain integrity of hardstand and drainage infrastructure (sumps and all drainage channels) to prevent leakage of product or wastewater to underlying soils; and b) Direct all wastewaters generated from alcoholic beverage manufacturing operations, including wash down water and by-products wastewater to the WWTP. | As labelled in Figure 1, Schedule 1: Winery |
| 2 | <u>Red barrel hall:</u> i. 11 tanks with a total capacity of 172 kL ii. Portable wine tanks and barrels iii. Sloped concrete floor with grated sumps and drainage channels | | As labelled in Figure 1, Schedule 1: Red barrel hall |
| 3 | <u>Outdoor wine tank farm:</u> i. 12 x 90 kL tanks for wine blending, transfer and storage ii. Sloped concrete floor with central drainage channel iii. Collection sump with valve to divert wastewater to WWTP or stormwater to dam | | As labelled in Figure 1, Schedule 1: Wine blending/transfer/storage tanks |
| Wastewater treatment | | | |
| 4 | <u>Wastewater drainage infrastructure:</u> i. Wastewater drainage pipelines from winery building, red barrel hall and outdoor wine tank farm to concrete settlement sump ii. Marc bay with sump and valve to divert wastewater to WWTP or stormwater to dam iii. Wastewater drainage pipeline from concrete main sump to WWTP iv. 3 kL concrete settlement sump v. 3 kL concrete mixing sump (for pH adjustment) vi. 3 kL concrete main sump | a) Maintain sumps, pipelines and drainage channels to prevent wastewater leaks to underlying soils. | Within and between the winery, red barrel hall, outdoor tank farm, marc bay and WWTP |

| Item | Site infrastructure and equipment | Operational requirement | Infrastructure location |
|-----------------------------|---|--|--|
| 5 | <u>Wastewater treatment plant (WWTP):</u> <ol style="list-style-type: none"> i. Physical solids screen and collection bin ii. 1 x 52 kL settling tank iii. 2 x 85 kL aeration tanks with air supplied via surface turbines iv. 1 x 295 kL venturi aerated balance tank v. 1 x 3.5 kL inflow tank vi. 1 x 6.5 kL separation tank 2 x 3.4 kL sludge tanks vii. 1 x 12 kL sludge storage tank viii. Shelter with concrete hardstand with canopy for the inflow, separation and sludge tanks ix. Flow meter installed between separation and discharge tanks | <ol style="list-style-type: none"> a) The WWTP must only receive wastewater generated from alcoholic beverage manufacturing operations in the winery, red barrel hall, outdoor tank farm and marc bay; b) Vegetation and floating debris (emergent or otherwise) is prevented from growing or accumulating in the aeration tanks; and c) Maintain hardstand beneath 2 x 3.4 kL sludge tanks to capture spills; and d) Flow meter to be maintained to enable accurate recording of WWTP outflow meter readings. | As labelled in Figure 1, Schedule 1: WWTP |
| Wastewater disposal | | | |
| 6 | <u>1,800 m² leach drain field divided into two areas:</u> <ol style="list-style-type: none"> i. PVC pipework to distribute wastewater across leach drains ii. West area: 135m conventional bed design (ten PVC top slotted pipes x 27m long) with capacity of 16,200 L/day (total 270 m) iii. East area : Six 30 m pipe leach drain modules and four 30 m concrete leach drain module (total 300 m) iv. Distribution box with 50:50 split of flow between west and east areas v. Diverters to direct discharge to west and/or east areas | <ol style="list-style-type: none"> a) No discharge to the east area from 1 June to 31 October; b) Maximum daily discharge of 14,500 L/day to east area and 16,200 L/day to the west area; c) Average daily discharge (calculated from total monthly volume discharged) outside vintage (1 May – 31 January); d) When discharge is occurring record daily discharge volumes and times during vintage (1 February to 30 April), with no more than two missed readings per monthly period; and e) Monthly inspection of the leach field surface and perimeter to identify seepage or flooding. | As labelled in Figure 1, Schedule 1: L1 leach field; and As labelled in Figure 2, Schedule 1: West area and East area |
| Solid waste disposal | | | |
| 7 | <u>Marc bay:</u> <ol style="list-style-type: none"> i. 505 m² bunded, uncovered concrete hardstand ii. Grated sump with valve to divert wastewater to the WWTP or stormwater to the dam/ground | <ol style="list-style-type: none"> a) Maintain bunded hardstand to be free of damage that could result in loss of leachate and contaminated stormwater to underlying soils; and b) All leachate captured in the marc bay and sludge dewatering bund must be directed to the WWTP. | As labelled in Figure 1 and Figure 2, Schedule 1: Marc bay |
| 8 | <u>Sludge dewatering bund</u> <ol style="list-style-type: none"> i. Concrete bund designed to hold sludge dewatering bags, with grated sump to collect and drain leachate to the WWTP. | | As labelled in Figure 2, Schedule 1: concrete bund |

Solid waste management

2. The licence holder must ensure that organic solid waste generated from wine processing (including marc, lees, screening solids and wastewater treatment sludge) is composted within the marc bay prior to spreading on land for use as a soil conditioner.
3. The solid waste or compost described in condition 2 applied to vineyards, must be spread evenly and during the period 1 May to 31 August of each calendar year shall not be applied to land within 50 m from of any defined watercourse, wetland or external property boundary.

Emissions and discharges

4. The licence holder must ensure that the emissions specified in Table 2, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 2 Authorised discharge points

| Emission | Discharge point | Discharge point location |
|----------|-----------------|----------------------------------|
| L1 | Leach field | As shown in Schedule 1: Figure 1 |

5. The licence holder must ensure that emissions from the discharge point listed in Table 3 for the corresponding parameter do not exceed the corresponding limit when monitored in accordance with condition 7.

Table 3 Emission and discharge limits

| Discharge point | Parameter | Limit | Averaging period |
|-----------------|--|-------------------|------------------|
| L1 | Load of total biological oxygen demand (BOD) | 1,680 kg/ha/month | Monthly |
| | pH | 5.5 - 8.5 | Spot sample |

Monitoring

General monitoring

6. The licence holder must 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 groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
 - d) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured;
 - e) results of all monitoring activity required by condition 7 and 8 are recorded;
 - f) monthly monitoring is undertaken at least 15 days apart; and

- g) six monthly monitoring is undertaken at least 5 months apart.

Monitoring of emissions to land

7. The licence holder must monitor emissions:
- from each discharge point;
 - at the corresponding monitoring location;
 - for the corresponding parameter;
 - at the corresponding frequency;
 - for the corresponding averaging period;
 - in the corresponding unit; and
 - using the corresponding method, as set out in Table 4.

Table 4 Emissions and discharge monitoring

| Discharge point | Monitoring location | Parameter | Frequency | Averaging period | Unit |
|-----------------|---|-----------------------------------|------------|------------------|----------------|
| L1 | M1 – Outflow from wastewater treatment system to leach drains | Volumetric flow rate (cumulative) | Continuous | Monthly | m ³ |
| | | pH | Monthly | Spot sample | - |
| | | Electrical conductivity | | | mS/cm |
| | | Biological oxygen demand | | | mg/l |
| | | Total dissolved solids | | | |
| | | Total suspended solids | | | |
| | | Total nitrogen | | | |
| | | Total phosphorus | | | |

Groundwater monitoring

8. The licence holder must monitor groundwater for concentrations of the identified parameters in accordance with Table 5.

Table 5 Groundwater monitoring requirements

| Monitoring point reference | Parameter | Units | Frequency | Averaging period |
|--------------------------------------|-------------------------------|--------|---|------------------|
| P1A ¹ and P3A | Standing water level | m(BGL) | Two samples per year, as follows: 1 st sampling event: between 1 January -30 April 2 nd sampling event: Between 1 August – 30 October | Spot sample |
| | pH | - | | |
| | Electrical conductivity | mS/cm | | |
| | Total nitrogen ² | mg/l | | |
| | Total phosphorus ² | | | |
| | Sodium ³ | | | |
| | Magnesium ³ | | | |
| | Calcium ³ | | | |
| Sodium adsorption ratio ³ | | | | |

| Monitoring point reference | Parameter | Units | Frequency | Averaging period |
|----------------------------|-----------|-------|-----------|------------------|
| | | | | |

Note 1: If bore P1A is dry during first sampling event, an attempt to re-sample must be made between during the period 1 March – 30 April. If the bore is still dry, no sample is required.

Note 2: Parameters do not require testing in bore P1A.

Note 3: Non-NATA accredited analysis permitted.

Records and reporting

9. 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.
10. 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 30 days after the end of that annual period an Annual Audit Compliance Report in the approved form.
11. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
 - a) the calculation of fees payable in respect of this licence;
 - ~~b) the works conducted in accordance with condition **Error! Reference source not found.** of this licence;~~
 - c) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
 - d) monitoring programmes undertaken in accordance with conditions 7 and 8 of this licence; and
 - e) complaints received under condition 9 of this licence.
12. The books specified under condition 11 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 licence holder for the duration of the licence; and
 - d) be available to be produced to an inspector or the CEO as required.

13. The licence holder must submit to the CEO by no later than 30 days after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Table 6, and which provides information in accordance with the corresponding requirement set out in Table 6.

Table 6 Annual Environmental Report

| Condition | Requirement |
|-----------|--|
| - | 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 |
| 2, 3 | Monthly quantity (m ³) of solid waste or compost applied to the vines on the premises, including the application rate (in m ³ /ha) |
| 7 | Wastewater monitoring: a) Volume (in L) of treated wastewater applied daily to the west and east leach drain areas from 1 February to 30 April, and monthly cumulative volumes (in m ³ or kL) for the annual period presented in table format; b) Treated wastewater monitoring data in tabulated and graphical form including the sampling date; c) Tabulated monthly BOD loadings (kg/ha/month) applied to the leach drain area, calculated by multiplying the measured BOD concentration in wastewater of a given month by the total volume discharged to land in that month; d) Review, assessment, and interpretation of the data including comparison to historical trends. |
| 8 | Groundwater monitoring: a) Data; and b) Review, assessment, and interpretation of the data including comparison to historical trends. |
| 12 | Complaints summary |
| 10 | Annual Audit Compliance Report |

Definitions

In this licence, the terms in Table 7 have the meanings defined.

Table 7: Definitions

| Term | Definition |
|---------------------------------------|---|
| ACN | Australian Company Number |
| 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). |
| annual period | a 12 month period commencing from 1 July until 30 June of the immediately following year. |
| AS/NZS 5667.1 | means the Australian Standard <i>AS/NZS 5667.11 Water quality - sampling - guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples</i> |
| AS/NZS 5667.10 | means the Australian Standard <i>AS/NZS 5667.11 Water quality - sampling - guidance on sampling of waste waters</i> |
| AS/NZS 5667.11 | means the Australian Standard <i>AS/NZS 5667.11 Water quality - sampling - guidance on sampling groundwater</i> |
| 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. |
| CEO | means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au |
| Compost | means an organic product that has undergone aerobic and thermophilic biological transformation through the composting process to achieve pasteurisation and reduce phytotoxic compounds and has achieved a level of maturity. |
| Department | means the department established under section 35 of the <i>Public Sector Management Act 1994 (WA)</i> and designated as responsible for the administration of the EP Act, which includes Part V Division 3. |
| 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. |
| EP Act | <i>Environmental Protection Act 1986 (WA)</i> |
| EP Regulations | <i>Environmental Protection Regulations 1987 (WA)</i> |
| hardstand | means a surface with a permeability of 10^{-9} metres/second or less |
| leachate | means liquid released by or water that has percolated through waste and which contains some of its constituents |
| lees | means the material which accumulates in the bottom of grape juice or wine fermentation tanks; |
| licence | refers to this document, which evidences the grant of a licence by the CEO |

| Term | Definition |
|---------------------|--|
| | under section 57 of the EP Act, subject to the specified conditions contained within. |
| licence holder | refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted. |
| marc | means grape material (mainly skin, pulp and seeds) which is left over after grape crushing and pressing |
| mbgl | meters below ground level |
| monthly period | means a one-month period commencing from the first day of a month until the last day of that same month |
| 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 Figure 1 in Schedule 1 to this licence |
| prescribed premises | has the same meaning given to that term under the EP Act. |
| six monthly | means the 2 inclusive periods from 1 July to 30 December and in the following year 1 January to 30 June |
| spot sample | means a discrete sample representative at the time and place at which the sample is taken |
| waste | has the same meaning given to that term under the EP Act. |

END OF CONDITIONS

Schedule 1: Maps



Figure 1: Prescribed premises boundary, monitoring points and key site infrastructure including the winery, red barrel hall, tank farm, marc bay, wastewater treatment plant and leach drain field

Figure 2 Location and schematic of marc bay stormwater and wastewater lines and sludge dewatering concrete bund wastewater line.

Figure 3 West and East leach field locations