



Licence number	L9215/2019/1
Licence holder	Rocky Ridge Brewing Co Pty Ltd
ACN	605381520
Registered business address	665 Boallia Road JINDONG WA 6280
DWER file number	DER2019/000251
Duration	17/06/2020 to 16/06/2040
Date of amendment	25/05/2021
Premises details	Rocky Ridge Brewing Co 665 Boallia Road, JINDONG, WA, 6280 Legal description - Lot 2370 on Deposited Plan 203036

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 25: Alcohol beverage manufacturing: premises on which an alcoholic beverage is manufactured and from which liquid waste is or to be discharged onto land or into waters.	Not more than 860 kL of beer produced per annual period

This revised licence is granted to the licence holder, subject to the attached conditions, on 25 May 2021, by:

Manager Process Industries

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

Licence history

Date	Reference number	Summary of changes
17/06/2020	L9215/2019/1	New licence
25/05/2021	L9215/2021	Licence holder-initiated amendment to condition 2, Table 2(a) to temporarily allow irrigation of wastewater over the winter months of 2021 whilst the licence holder undertakes improvements to the wastewater treatment system and winter storage capacity. Updates to the premises infrastructure have also been made.

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:
 - (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 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:

Infrastructure and equipment

1. 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

Site infrastructure and equipment	Operational requirement	Infrastructure location
<p>Brewery production and shed hardstand area consisting of:</p> <ul style="list-style-type: none"> • 8 stainless steel fermenting tanks (3 x 6,000 L and 5 x 3,000 L) tanks; • 3 stainless steel Bright tanks; • Stainless steel kettle • Keg Filler • Stainless steel Whirlpool • 4 x 200L polyurethane tubs in the CIP system • 900L central drain • 2kL concrete wastewater collection sump. 	<p>(a) All plant and equipment used for the production and packaging of beer (excluding water tanks) must be installed and maintained within purpose built enclosed structures.</p> <p>(b) Concrete central drain maintained to receive all wastewater from the brewery operations and direct it to the wastewater collection sump through a solids filter basket.</p> <p>(c) Filter basket is monitored daily and emptied at least once a week.</p> <p>(d) The wastewater collection sump is kept free of solids.</p>	<p>Figure 2 and 3 in Schedule 1 and shown as:</p> <p>Brew shed Store room Packaging room</p>
<p>Wastewater treatment plant (WWTP) consisting of :</p> <ul style="list-style-type: none"> • 20 kL pH buffering / settling tank; • 50 kL aerobic tank; • 50 kL aeration tank; • 97 kL post settling and irrigation tank; • Pipes and associated infrastructure and • Hardstand area. 	<p>(a) All pipeline connections to wastewater treatment tanks and pumps to be fitted with a 2-inch sealed PVC pipe with non-return valves.</p> <p>(b) Sludge in the buffering /settling tank to be removed at least 4 times a year by a licensed contractor.</p> <p>(c) Sludge in the post settling tank and irrigation tank to be removed at least once a year by a licensed contractor.</p> <p>(d) Sampling Point L1 within the irrigation tank is maintained to allow for periodic sampling of treated wastewater.</p>	<p>Figure 3 in Schedule 1 and shown as:</p> <p>97,000L post settling and irrigation tank L1 wastewater sampling point 50,000L aeration tank, 50,000L anaerobic tank, 20,000L elevated settling and pH buffering tank</p>

Site infrastructure and equipment	Operational requirement	Infrastructure location
Irrigation areas A1 and A2 consisting of: travelling self-propelled irrigator; irrigation line connecting irrigator to irrigation pipeline; and irrigation pipeline(s) and pump(s) connecting to flow meter and treated wastewater irrigation tank.	(a) Flow meter capable of accurately monitoring the volume of wastewater discharge from the irrigation tank (as specified in Figure 3 in Schedule 1) to the irrigation areas A1 and A2 (as defined in Figure 4 in Schedule 1). (b) Irrigation system valves, pumps, pipelines, and other fittings must be maintained and inspected daily for ruptures or leaks when irrigating. (c) Spray irrigator to be maintained to ensure no blockages to allow even and effective spray production and ensure mobility, stopping and cut-off mechanisms are functioning as per equipment design. (d) Spray irrigator operated to deliver treated wastewater at a rate of not less than 1mm/hour or 1L over 1 metre square. (e) Fence to exclude stock from accessing irrigation areas.	Figure 2, 3 and 4, Schedule 1 and shown as: Indicative pipework with kline pumps. Labelled as: L2 Flow meter, and A1 and A2 as irrigation areas.

Disposal of treated wastewater

2. The Licence Holder must ensure treated wastewater is discharged to land only at the locations specified in Table 2 and in accordance with the corresponding discharge requirements specified in Column 2 of Table 2.

Table 2: Authorised discharge of treated wastewater via irrigation

Emission point reference as specified in Schedule 1	Discharge via irrigation requirements
A1 and A2 Irrigation areas as specified in Figure 4, Schedule 1.	(a) As from 31 May 2022, no irrigation during the months of June, July and August may occur. (b) Wastewater must be treated in the wastewater treatment system, which includes pH buffering, aerobic treatment and settling, prior to irrigation. (c) Bunding/cut-off drains are maintained adjacent to treated wastewater irrigation areas to prevent runoff of wastewater. (d) No irrigation generated run-off, spray drift or discharge occurs beyond the boundary of the irrigation area. (e) Irrigation is not undertaken when rainfall is imminent, during or immediately after a rainfall event. (f) Wastewater is evenly distributed over the irrigation area at a rate that no ponding or pooling occurs.

Emission point reference as specified in Schedule 1	Discharge via irrigation requirements
	(g) Irrigation does not occur on land that is waterlogged. (h) There are daily visual inspections of the irrigation area when irrigation has occurred. (i) Vegetation in irrigation area A1 is harvested at least once every 12 months. (j) No livestock is permitted to graze the irrigation areas. (k) No soil erosion occurs. (l) Healthy vegetation cover is maintained over the irrigated areas.

Emissions to land loading limits

3. The licence holder must ensure that wastewater to be discharged via irrigation areas A1 and A2 does not exceed the limits specified in Table 3 for each of the corresponding parameters listed in Table 3.

Table 3: Irrigation emission limits

Emission point reference	Parameter	Loading Limits
A1 and A 2 As shown in Figure 4 Schedule 1	Total nitrogen	<30kg/ha/annual period
	Total phosphorus	<10kg/ha/annual period
	BOD ⁵	<30kg/ha/day

Monitoring

4. The licence holder must monitor emissions:

- a) from each discharge point;
- b) for the corresponding parameter;
- c) at the corresponding frequency;
- d) for the corresponding averaging period;
- e) in the corresponding unit, and
- f) using the corresponding method,

as set out in Table 4.

Table 4: Emissions and discharge monitoring

Monitoring point	Parameter	Frequency	Sample type	Unit	Method
L2 as shown in Figure 3 and 4 in Schedule 1 (outflow from the storage tank in the WWTP to irrigation areas A1 and A2)	Volumetric flow rate	Continuous when discharging	Spot sample	m ³ /day	AS/NZS5667.1-1998 and AS/NZS5667.10-1998
L1 and L2 as shown in Figure 3 in Schedule 1 (the storage tank in the WWTP)	Volume of treated wastewater discharged	Monthly		m ³	
	pH ¹			-	
	Electrical conductivity ¹				
	Total nitrogen			mg/L	
	Total phosphorus				
	Total dissolved solids				
	Total suspended solids				
BOD ₅					

¹ In field NATA accredited analysis permitted.

5. The licence holder must monitor the groundwater for concentrations of the parameter listed in Table 5:

- a) at the corresponding monitoring location;
- b) in the corresponding unit;
- c) at no less that the corresponding frequency;
- d) for the corresponding averaging period; and
- e) using the corresponding method,

as set out in Table 5.

Table 5: Groundwater Monitoring

Monitoring well location	Parameter	Unit	Sample type	Frequency	Method
MB1 and MB2 as shown in Figure 4 Schedule 1	Standing water level	m(AHD) and mbgl	Spot sample	Each quarterly period in the months of March, June, September, December.	Spot and grab samples, in accordance with AS/NZS 5667.11.
	pH ¹	pH units	Spot sample		
	Electrical conductivity ¹	µS / cm	Spot sample		
	Total nitrogen	mg/L	Grab sample		
	Ammonia nitrogen				
	Nitrate nitrogen				
	Total phosphorus				
	Reactive phosphorus or Orthophosphate				

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

6. The licence holder must record the results of all monitoring activity required by conditions 4 and 5.

7. The licence holder must ensure that:

- a) monitoring is undertaken in each monthly period such that there are at least 15 days in between the days on which samples are taken in successive months;
- b) monitoring is undertaken in each quarterly period such that there are at least 45 days in between the days on which samples are taken in successive quarters;

Records and reporting

8. The licence holder must maintain accurate and auditable books that include the following records, information, reports, and data required by this licence:

- a) the calculation of fees payable in respect of this licence;
- b) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
- c) monitoring programmes undertaken in accordance with conditions 4 and 5 of this licence; and
- d) complaints received under condition 10 of this licence.

9. The books specified under condition 8 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.

10. 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.

11. 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 60 days after the end of that annual period an Annual Audit Compliance Report in the approved form.

12. The licence holder must submit to the CEO by no later than 60 days after the end of each annual period, an Annual Environmental Report for that annual period for the conditions listed in Tables 3, 4 and 5 which provides information in accordance with the corresponding requirement set out in Table 6.

Table 6: Annual Environmental Report requirements

Condition	Requirement
Wastewater	<ul style="list-style-type: none"> a) Volume (in m³ or kL) of treated wastewater applied daily to each irrigation area, and monthly cumulative volumes presented in table format; b) Treated wastewater monitoring data in tabulated and graphical form including the sampling date; c) Tabulated monthly and annual loadings of nitrogen, phosphorus and BOD applied to each irrigation area, including an explanation of the basis for determining loading rates; d) An assessment and interpretation of the data, including comparison to historical trends and loading limits; e) Copies of the field monitoring records and field QA/QC documentation; f) Details (species and tonnages removed) of the crop/vegetation harvested from irrigation area A1 during the annual period;
Groundwater	<ul style="list-style-type: none"> g) Copies of the field monitoring records and field QA/QC documentation; h) An assessment of reliability of field procedures and laboratory results;

	<ul style="list-style-type: none"> i) Copies of laboratory sample analysis reports; j) A tabulated summary of results, as well as all raw data provided in an accompanying Microsoft Excel spreadsheet digital document/file (or a compatible equivalent digital document/file), with all results being clearly referenced to laboratory certificates of analysis; k) A diagram with aerial image overlay showing all monitoring locations and depicting groundwater level contours, flow direction and hydraulic gradient (relevant site features including discharge points and other potential sources of contamination must also be shown); l) An interpretive summary and assessment of the results against relevant assessment levels for water, as published in the <i>Guideline Assessment and management of contaminated sites</i>, Table 5, December 2014. m) An interpretive summary and assessment of results against previous monitoring results, and n) Trend time series graphs to provide a graphical representation of historical results and to support the interpretive summary.
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Note 1: General guidance on report presentation can be found in the Department's *Guideline: Assessment and management of contaminated sites*.

Definitions

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

Table 1: 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 May until 30 April of the immediately following year.
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
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) 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</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
harvested	means the grown vegetation, pasture or crop that is cut and removed from the irrigation area.
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	means the occupier of the Premises, being the person to whom this licence has been granted, as identified on the front of this licence.
Premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map Figure 1 in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.

Term	Definition
QA/QC	means quality assurance / quality control.
Waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises Map



Figure 1: Map of the boundary of the prescribed premises is outlined in pink

L9215/2019/1 (Amendment date: 25 May 2021)

Site Plan Map

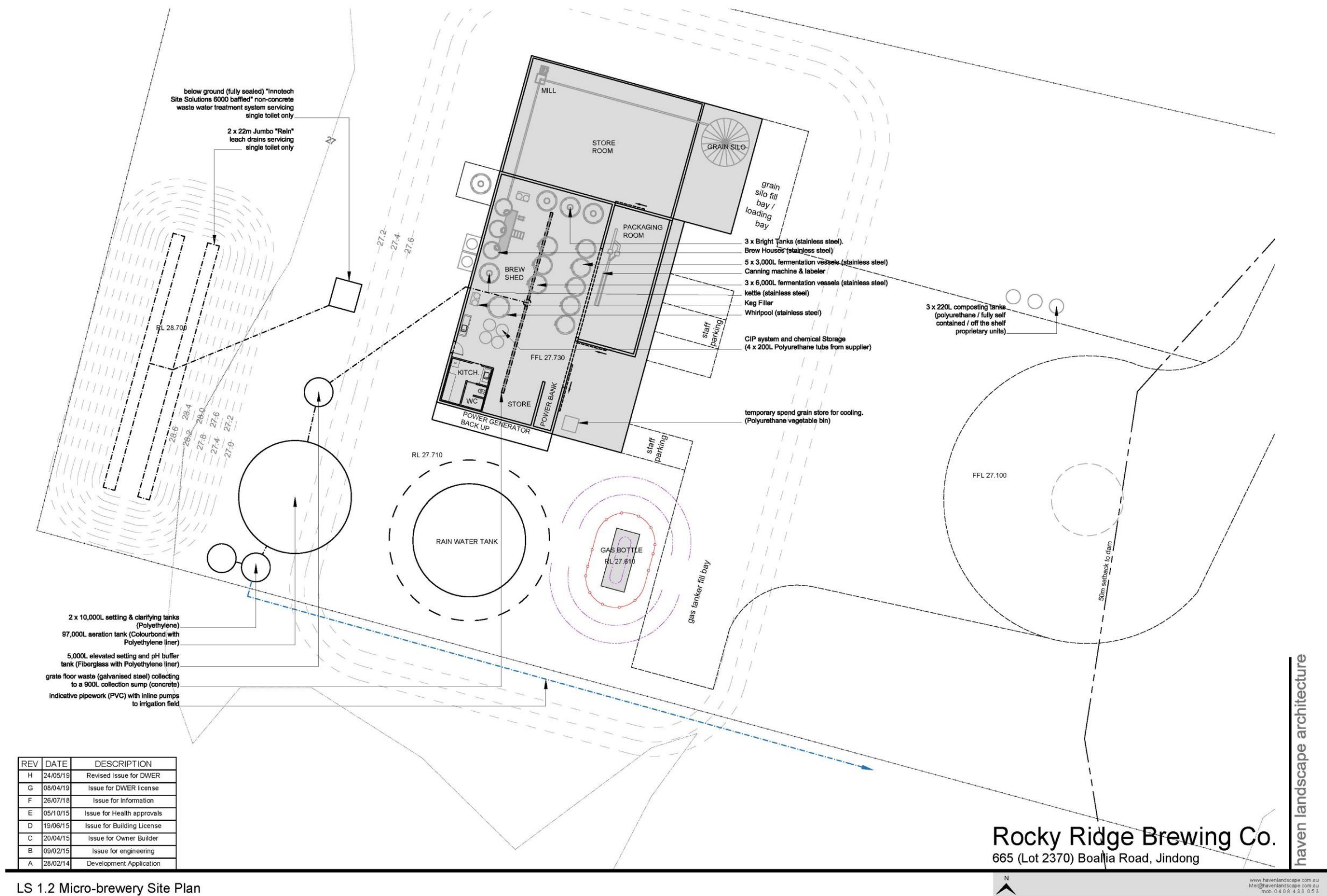


Figure 2 Site Plan of Rocky Ridge Brewery and WWTP.

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Site Wastewater Treatment Diagram

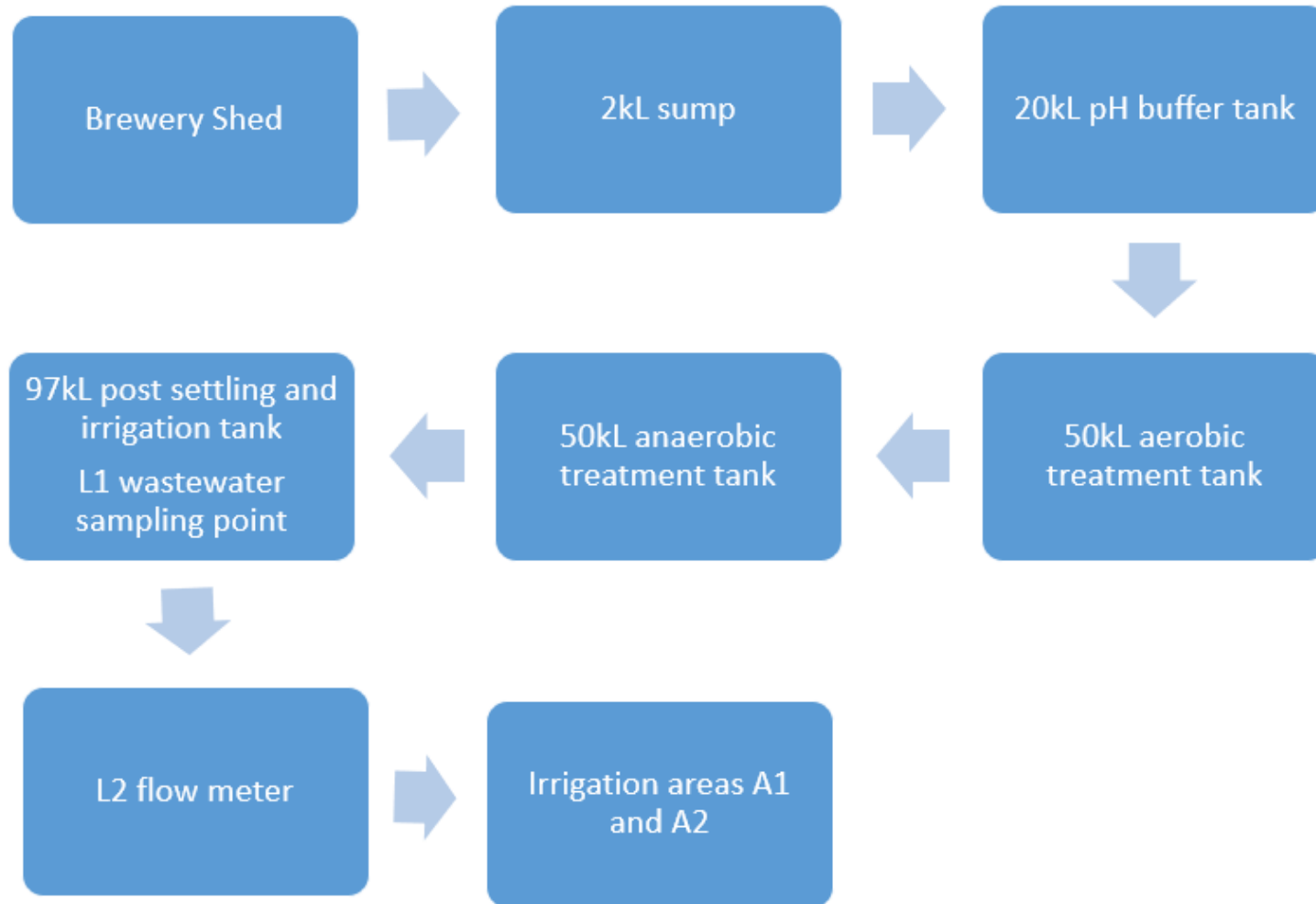


Figure 3 Wastewater treatment diagram of Rocky Ridge Brewery and WWTP. L1 is the wastewater sampling point and L2 is the flow meter.

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Monitoring Locations Map



Figure 4. Monitoring Locations. A1 is the Irrigated paddock (outlined in green), A2 is the irrigated trees (outlined in purple), MB1 is the ungradient groundwater bore, MB2 is the down gradient monitoring bore (shown as red circles).

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