



<b>Works approval number</b>	W6302/2019/1
<b>Works approval holder</b>	Halliburton Australia Pty Ltd
<b>ACN</b>	009 000 775
<b>Registered business address</b>	Level 27, 140 St Georges Terrace PERTH WA 6000
<b>DWER file number</b>	DER2019/000538
<b>Duration</b>	10/01/2020 to 09/01/2023
<b>Date of issue</b>	10/01/2020
<b>Premises details</b>	Broome Liquid Mud Plant Lot 587 Crab Creek Road  Part of Lot 587 on Plan 71791 ROEBUCK WA 6725 As defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i> )	Assessed maximum design capacity
Category 73: Bulk storage of chemicals etc.: premises on which acids, alkalis or chemicals that — a) contain at least one carbon to carbon bond; and b) are liquid at STP (standard temperature and pressure), are stored.	3,890 m <sup>3</sup> in aggregate
Category 75: Chemical blending or mixing not causing discharge: premises on which chemicals or chemical products are mixed, blended or packaged in a manner that does not cause or is not likely to cause a discharge of waste into the environment.	60,000 tonnes per year

This works approval is granted to the works approval holder, subject to the attached conditions, on 10 January 2020, by:

**A/Manager, Process Industries**

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

## 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 means the version of the standard, guideline or code of practice in force at the time of granting of this works approval and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the works approval;
- (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..

## Works approval conditions

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

### Infrastructure and equipment

1. The works approval holder must construct and/or install the infrastructure listed in Table 1
  - (a) in accordance with the corresponding design and construction / installation requirements; and
  - (b) at the corresponding infrastructure location,
 as set out in Table 1.

**Table 1: Design and construction / installation requirements**

Infrastructure	Design and construction / installation requirement	Infrastructure location as shown in Schedule 1: Premises layout
Bunded mixing area	20 m x 20 m x 0.3 m concrete bunded area inside existing building	Bunded area (Figure 2)
	Mixing tanks comprising: <ul style="list-style-type: none"> <li>1 x 80 m<sup>3</sup> water based muds mixing tank with low-pressure mixing hopper;</li> <li>1 x 80 m<sup>3</sup> synthetic based muds mixing tank with low-pressure shear hopper; and</li> <li>1 x 54 m<sup>3</sup> brine mixing tank</li> </ul>	500 BBL WBM Mix Tank, 500 BBL OBM Mix Tank and 340 BBL Brine Mix Tank (Figure 2)
	1 x 1,296 L concrete sump with an air driven diaphragm pump	SP1 (Figure 2)
Bunded storage area	81.5 m x 35 m x 0.3 m concrete bunded area	External bunded area (Figure 2)
	Storage tanks comprising: <ul style="list-style-type: none"> <li>72 x 54 m<sup>3</sup> tanks each fitted with VegaPuls 62 level sensors;</li> <li>80 m<sup>3</sup> water tank; and</li> <li>30 m<sup>3</sup> self bunded fuel storage tank</li> </ul>	Baraswift tank 340 BBL Water Tank Fuel Tank (Figure 2)
	4 x 1,296 L concrete sumps each with air driven diaphragm or air driven submersible pump	S1 to S4 (Figure 2)
Silos	9 x 62 m <sup>3</sup> silos each fitted with a pressure gauge and relief valve suitable for the storage of barite, bentonite and cement	Baurite Tanks and Cement Bulk Silos (Figure 3: Map of Premises layout as approved by Shire of Broome. Figure 2)
Dust collectors	2x Donaldson Downflo Evolution DFE 2-4 dust collectors connected to silos and bag cutters	DC1 and Dust Collector (Figure 2)
Bag cutters	2 x bag cutting pods connected to silos via enclosed transfer lines. Cutting pods meet ASME Sect. VIII Div 1 2017.	Airwall and 2 cutting pods (Figure 2)
Oily water interceptor	Twin pod cartridge filtration unit (TDW610-7M/40-4 or equivalent) fitted with oil-bond cartridges (EN160-OB40N3 or equivalent).	NA

## Compliance reporting

2. The works approval holder must within 14 calendar days of completion of the works required by condition 1:
  - (a) undertake an audit of their compliance with the requirements of condition 1; and
  - (b) prepare and submit to the CEO an audit report on that compliance.

## Records and reporting

3. 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 condition 1 of this works approval;
  - (b) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this works approval; and
  - (c) complaints received under condition 5 of this works approval.
4. The books specified under condition 3 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.
5. 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.

## Definitions

In this works approval, the terms in Table 2 have the meanings defined.

**Table 2: Definitions**

Term	Definition
ASME Sect. VIII Div.1 2017	2017 American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section VIII, Division 1: Rules for Construction of Pressure Vessels.
books	has the same meaning given to that term under the EP Act.
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 <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> 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.
EP Act	<i>Environmental Protection Act 1986</i> (WA).
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA).
Premises	refers to the premises to which this works approval applies, as specified at the front of this works approval and as shown on the map in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
waste	has the same meaning given to that term under the EP Act.
works	refers to the works described in condition 1, at the locations shown in Schedule 1 of this works approval to be carried out at the premises, subject to the conditions.
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.

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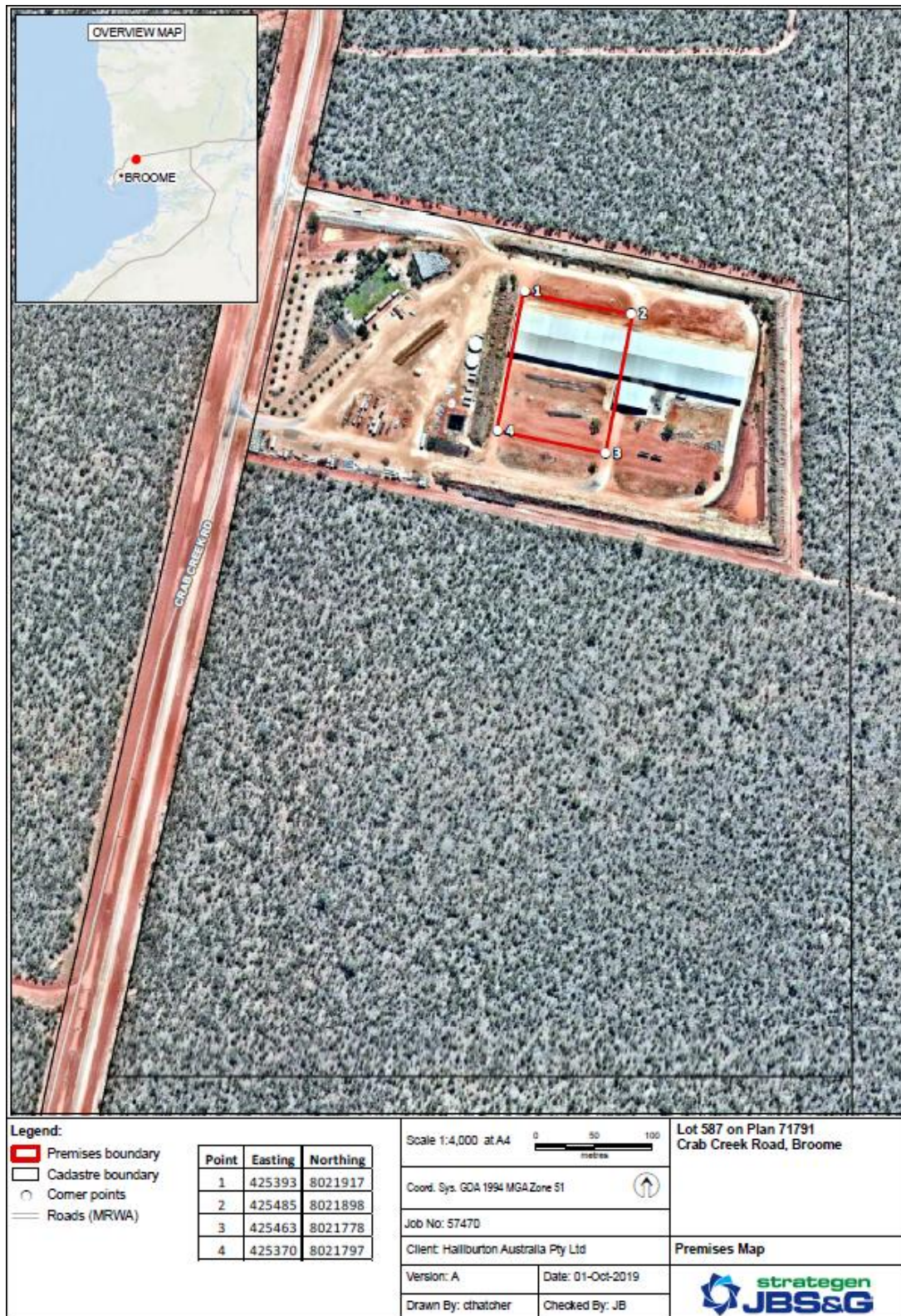
## END OF CONDITIONS



# Schedule 1: Maps

## Premises map

The boundary of the prescribed premises is shown in red in the map below (Figure 1).



**Figure 1: Map of the prescribed premises boundary**

## Premises boundary

The Prescribed Premises boundary is defined by the coordinates in .

**Table 3: Premises boundary coordinates**

<b>Easting</b>	<b>Northing</b>
425393	8021917
425485	8021898
425463	8021778
425370	8021797



## Premises layout

The premises layout is shown below (

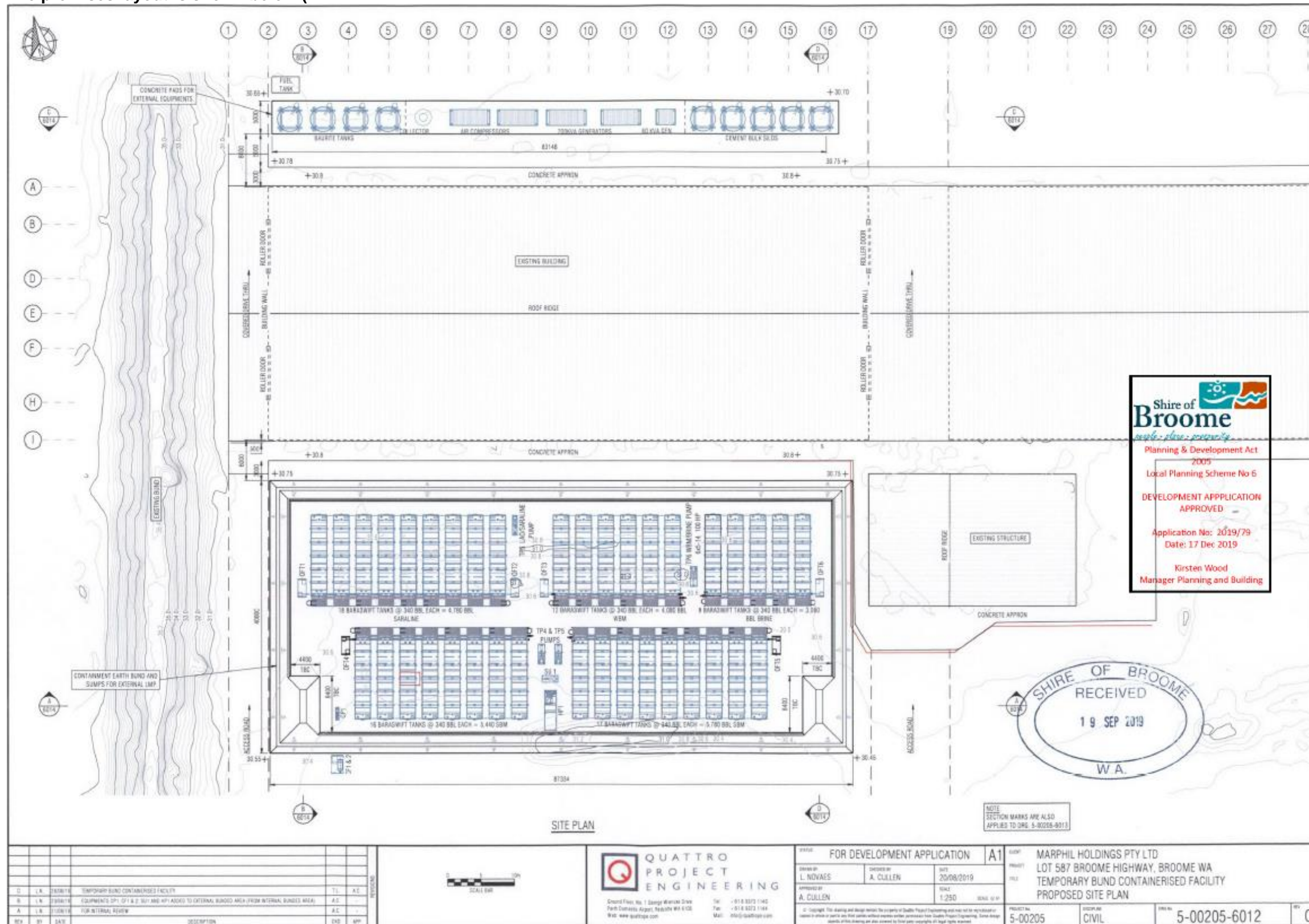
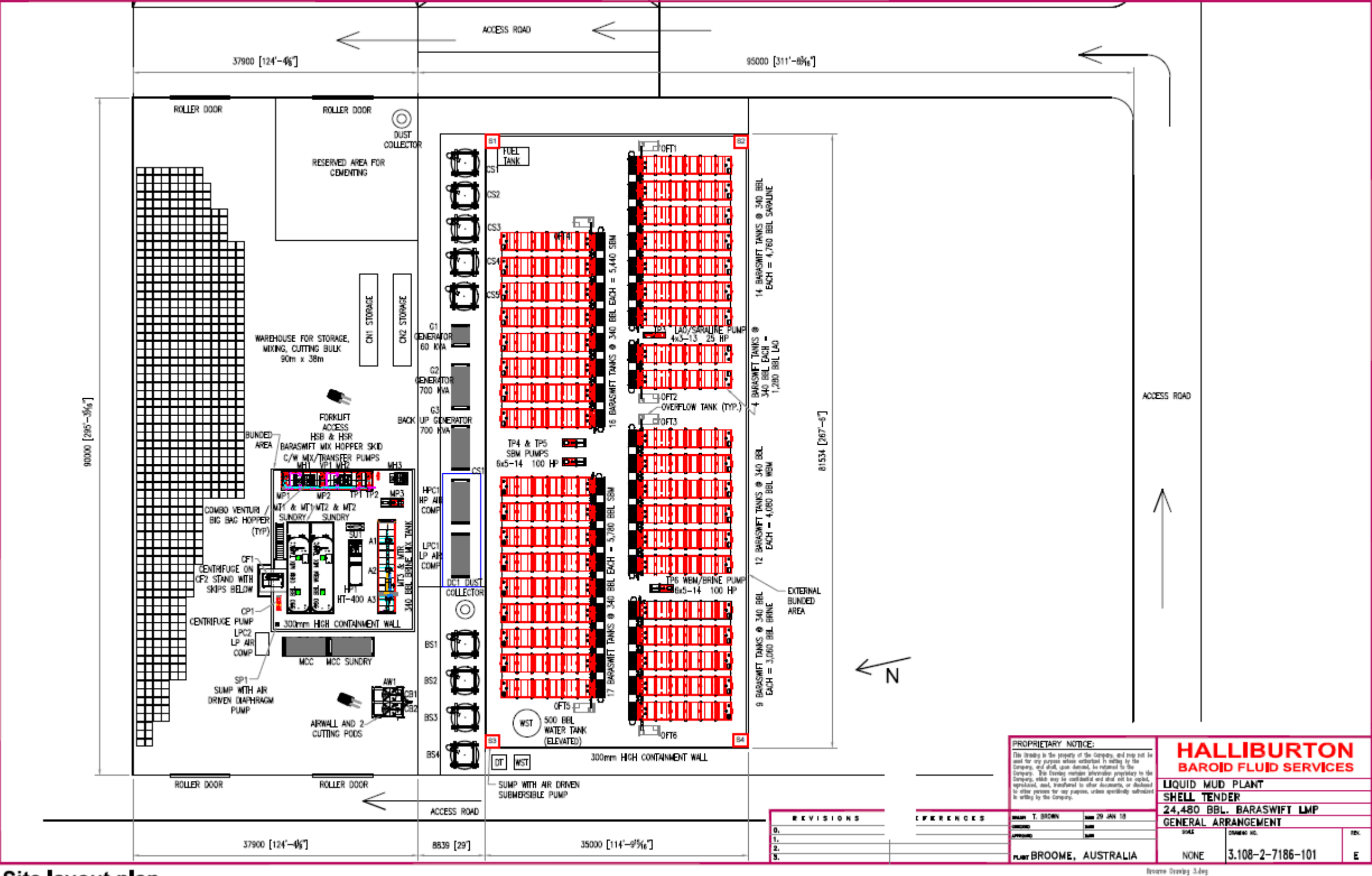


Figure 3: Map of Premises layout as approved by Shire of Broome.



and Figure 3). The barite, bentonite and concrete silos, air compressors and generators are located to the north of the enclosed building per Figure 3.



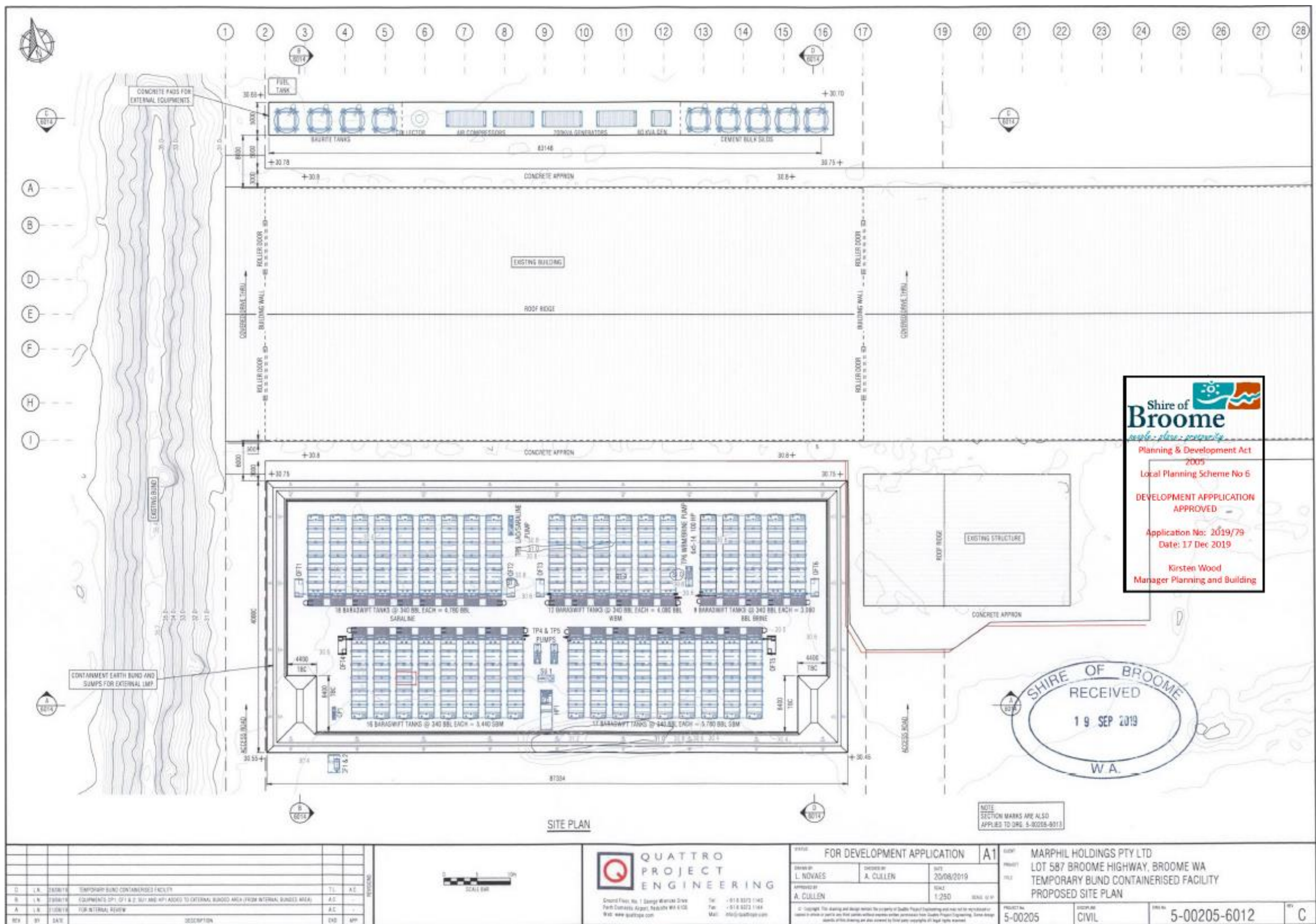


Figure 3: Map of Premises layout as approved by Shire of Broome.



## Premises Plan

The premises plan is shown below (Figure 4)

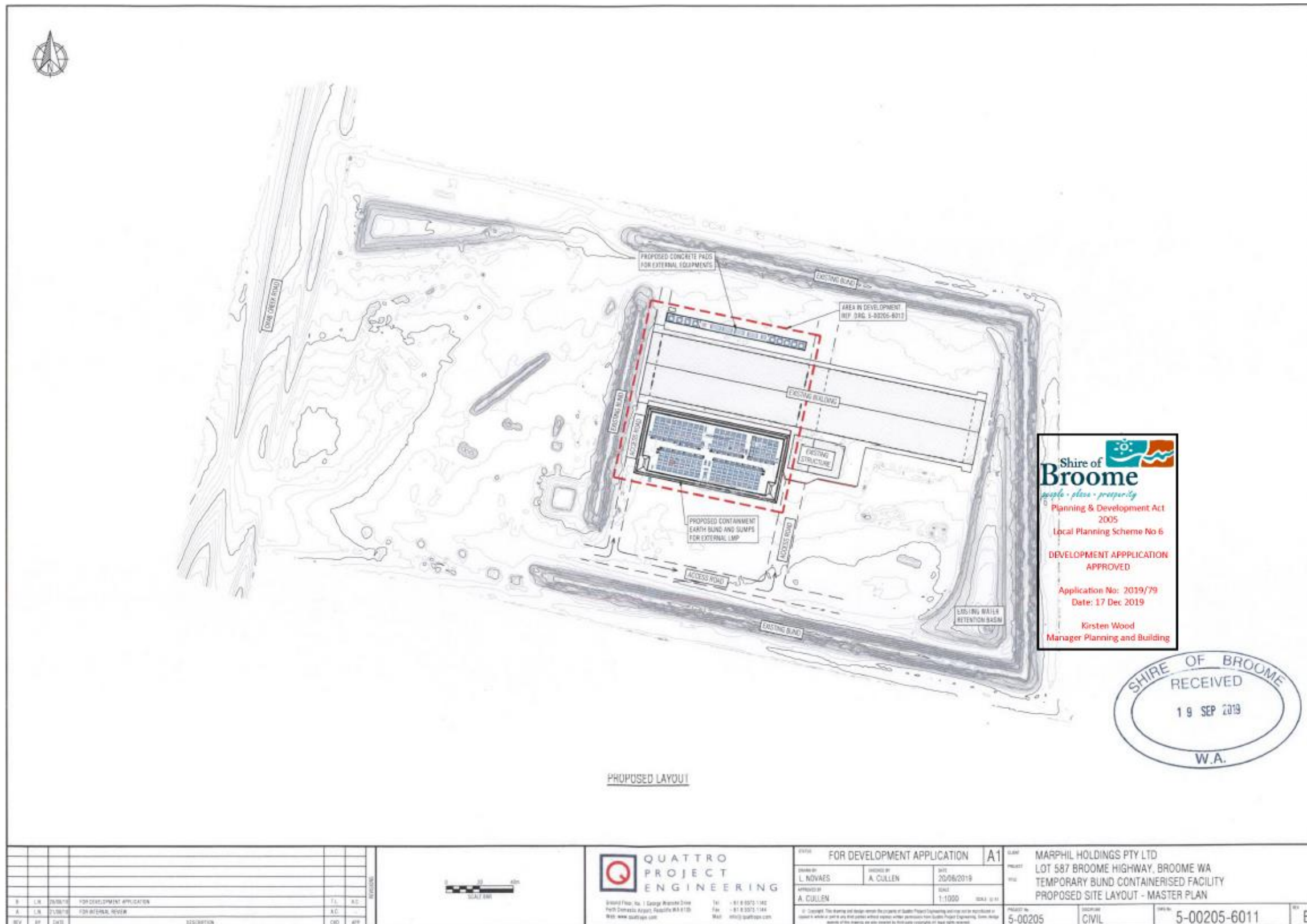


Figure 4: Map of the premises plan