



Licence number	L8980/2016/1
Licence holder	Yeeda Pastoral Company Pty Ltd
ACN	094 819 717
Registered business address	Unit 5, 186 Hampden Road NEDLANDS WA 6009
DWER file number	DER2016/001234-1
Date of Issue	20/10/2016
Duration	24/10/2016 to 23/10/2036
Date of amendment	01/07/2024
Premises details	Yeeda Station Liquid Waste Facility Being a portion of Lot 268 on Plan 220707 Colourstone Road WILLARE WA 6728 As defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 61 – Liquid waste facility: premises on which liquid waste produced on other premises (other than sewerage waste) is stored, reprocessed, treated or irrigated.	150,000 tonnes per year
Category 67A - Compost manufacturing and soil blending: premises on which organic material (excluding silage) or waste is stored pending processing, mixing, drying or composting to produce commercial quantities of compost or blended soils.	1,830 input tonnes per year

This licence is granted to the licence holder, subject to the attached conditions, on 01 July 2024, 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
24/10/2016	L8980/2016/1	New Category 61 Licence issued
23/1/2018		Amendment to L8980/2016/1 processed to correct administrative errors associated with Condition 12 which specifies nutrient loading rates.
14/10/2019		Amendment application to incorporate changes to premises boundary, reporting period and other administrative changes. CEO initiated amendments include adding Category 67A and composting management conditions and definitions.
01/07/2024		Licence holder-initiated amendment for the once off burial of up to 1,500 tonnes of carcass waste.

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 in this licence to an Australian or other standard, guideline, or code of practice, means the version of that document in force at the time of granting of this licence;
- (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

- 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 requirements	Infrastructure location
<p>Treated Wastewater Irrigation System comprising:</p> <ul style="list-style-type: none"> irrigation pipeline and centre pivot irrigator; and 4 x centre pivot plots (each of 16 hectare capacity). 	<p>Irrigation plots must be rotated at least:</p> <ol style="list-style-type: none"> once 150,000 tonnes of treated wastewater has been applied consecutively to an individual plot; or once every 2 years; <p>whichever occurs first.</p>	<p>As shown in Schedule 1: Map of authorised discharge points (Figure 2)</p>
<p>Compost pad and leachate collection sump</p>	<p>Compost pad of dimensions 50m x 100m x 70m x 110m.</p> <p>Compost pad constructed of compacted in-situ clay with 100mm compacted gravel liner.</p> <p>Compost pad graded to drain to a leachate collection sump with storage capacity of 200m³.</p> <p>Leachate collection sump operated such that a 500mm freeboard is maintained.</p> <p>1m high perimeter bunding to be maintained around compost pad and leachate collection sump.</p>	<p>As shown in Schedule 1: Map of authorised discharge points (Figure 2)</p>
<p>4 x Groundwater monitoring bores (YMB1 – 4)</p>	<p>To be maintained to enable quarterly monitoring of groundwater in accordance with Condition 9.</p>	<p>As shown in Schedule 1: Map of groundwater monitoring bores (Figure 3)</p>

Waste acceptance and processing specifications

- The Licence Holder must only accept onto the Premises waste of a waste type, which does not exceed the corresponding rate at which waste is received, and which meets the corresponding acceptance specification set out in Table 2.

Table 2: Types of waste authorised to be accepted onto the Premises

Waste type	Rate at which waste is received	Acceptance specification
Liquid waste (treated abattoir wastewater)	150,000 tonnes per year	Limited to: <ul style="list-style-type: none"> treated wastewater from the Colourstone WWTS that is blended at a minimum ratio of 1 part treated wastewater to 0.5 parts clean bore water
Putrescible waste (animal wastes, animal carcasses, Colourstone WWTS sludge and vegetative materials)	1,830 tonnes per year (feedstock input)	Must be immediately deposited on the Premises Compost pad on receipt at the Premises. Limited to: <ul style="list-style-type: none"> dewatered cattle manure; no more than 70 cattle carcasses per year; treated solid waste (sludge) skimmed from Colourstone WWTS; and hay, woodchips and other vegetative materials.

Emissions and discharges

Discharges to land controls

- The Licence Holder must ensure that the emissions specified in Table 3 are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 3: Authorised discharge points

Emission	Discharge point	Discharge point location
Discharge of treated wastewater from Colourstone WWTS	Irrigation plots 1 - 4	As shown in Schedule 1: Map of authorised discharge points (Figure 2)

Treated wastewater discharge limits

- The Licence Holder must not cause or allow emissions to land greater than the limits listed in Table 4.

Table 4: Treated wastewater irrigation loading limits

Discharge point	Discharge point location	Parameter	Limit	Units	Averaging Period
Irrigation plots 1 - 4	As shown in Schedule 1: Map of authorised discharge points (Figure 2)	Total Nitrogen	480	Kilograms/hectare/year	Annual
		Total Phosphorus	120		
		Biochemical Oxygen Demand	30	Kilograms/hectare/day	Daily

Monitoring

5. The Licence Holder must perform daily visual monitoring of all pipelines and wastewater storage infrastructure during irrigation operations to ensure no leaks, overflows or discharges of treated wastewater occur outside of approved irrigation discharge areas defined in the Schedule 1: Map of authorised discharge points (Figure 2).
6. The Licence Holder must manage the irrigation areas defined in the Schedule 1: Map of authorised discharge points (Figure 2) to ensure that:
 - (a) no ponding occurs as a result of irrigation;
 - (b) no surface water runoff or spray drift of irrigated wastewater occurs beyond the irrigation area; and
 - (c) Irrigation does not occur during periods of rainfall.

Compost management

7. The Licence Holder must ensure the composting operations on the Premises are managed such that:
 - (a) compost windrows are regularly turned to ensure aerobic conditions are maintained;
 - (b) the core temperature of the composting windrow is maintained between 55 °C and 65 °C for a period of at least three days;
 - (c) the moisture level in the composting windrow is maintained between 40 to 65 percent;
 - (d) composting windrows do exceed 2 metres high, 3 metres wide and 90 metres long;
 - (e) composting windrows are separated by at least 5 metres of clear ground; and
 - (f) composting leachate is collected and returned to the composting process or disposed of to the approved irrigation area.

Monitoring of inputs and outputs

8. The Licence Holder must record the total volumes of waste inputs accepted onto the Premises, and each waste type removed from the Premises for each waste type listed in Table 5, in the corresponding unit, and for each corresponding time period, as set out in Table 5.

Table 5: Waste inputs and outputs

Input / Output	Waste types	Units	Averaging period	Time period
Waste Inputs	Treated wastewater irrigated to land	tonnes and m ³	Monthly	Continuous
	Dewatered cattle manure, treated solid waste (sludge), carcasses and vegetative matter (hay, woodchips and other plant materials)		N/A	Each load arriving at the Premises
Waste outputs	Matured Compost		N/A	Each load leaving the Premises

Groundwater monitoring

- 9.** The Licence Holder must monitor the groundwater for the parameters listed in Table 6:
- (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 6.

Table 6: Groundwater monitoring requirements

Parameter	Monitoring location	Unit	Frequency	Averaging period	Method	
					Sampling	Analysis
Standing Water Level ¹	YMB1 – YMB4 As depicted in Schedule 1: Map of groundwater monitoring bores	m (AHD)	Quarterly	Instantaneous	AS/NZS 5667.11	NATA accredited
pH ¹		-		Instantaneous or spot sample		
Total dissolved solids		mg/L		Spot sample		
Total nitrogen						
Total phosphorus						

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

- 10.** The Licence Holder must ensure that:
- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all groundwater sampling is conducted in accordance with AS/NZS 5667.11, using low-flow sampling; 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 Monitoring Requirements Table.
- 11.** 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; and
 - (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

- 12.** 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) 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 5, 6, 7, 8, 9, 10 and 11 of this Licence; and
 - (d) complaints received under condition 14 of this Licence.
- 13.** The Books specified under condition 12 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.
- 14.** 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.
- 15.** 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 28 February each year, an Annual Audit Compliance Report in the approved form.
- 16.** The Licence Holder must submit to the CEO no later than 28 February each year, an Annual Environmental Report for the Annual Period for the conditions listed in Table 7, and which provides information in accordance with the corresponding requirements set out in Table 7.

Table 7: Annual Environmental Report requirements

Condition(s)	Requirement
3 and 4	Treated wastewater irrigation loading limits for the Premises, including details of the irrigation plot(s) used during the Annual Period. Calculations must show hydraulic loading (volumes irrigated) and average discharge concentration values for all contaminants likely to be present in wastewater discharged to land.
8	Monitoring of inputs and outputs including: <ul style="list-style-type: none"> a) cumulative monthly volumes of treated wastewater received and irrigated to the Premises; b) volumes (in tonnes) of dewatered cattle manure, animal carcasses, treated solid waste (sludge), and hay, woodchips and other plant materials received at the Premises for composting; and c) volumes (in tonnes) of matured compost exported from the Premises and location matured compost was exported to.
9	Ambient groundwater quality monitoring – Tabulated groundwater monitoring data results and an interpretation of monitoring data results including comparison of historical data to determine trends
-	The Report must contain a summary of complaints records for the reporting Annual Period.
-	The Report must contain any issues raised from inspections or incident responses during the reporting period together with details as to how these have been addressed / rectified or, if the required work has yet to be completed, how and when they will be completed / rectified.
-	The Report must contain any changes to site boundaries, location of groundwater monitoring bores, surface drainage channels and on-site or off-site impacts or pollution.

17. The Licence Holder must comply with a Department Request, within 14 days from the date of the Department Request or such other period as agreed to by the Inspector or the CEO

Works

18. The licence holder must construct and operate a temporary carcass burial pit in accordance with the requirements specified in Table 8.

Table 8: Infrastructure requirements – temporary carcass burial pit

Infrastructure	Installation and operation requirements	Infrastructure location	Timeframe
Burial pit 100 m long, 3 m wide 1.5 m deep	<ul style="list-style-type: none"> a) Must be constructed in the location as depicted in the Premises Map (Figure 1) b) No more than 1,465 tonnes of dried carcass remain are permitted to be buried in the burial pit. c) Clean material excavated from 	As depicted in Schedule 1, Figure 1: Premises map, labelled burial pit	Must be installed and covered by 31 August 2024

	<p>the pit must be used to cover the waste within 96 hours of the waste being deposited into the burial pit.</p> <p>d) At least one meter of compacted clean soil must cover the carcass waste.</p>		
--	---	--	--

- 19.** The licence holder must submit within 14 days of the burial pit being constructed submit to the CEO a completion report, including photographic evidence, demonstrating that the burial pit has been constructed and operated in accordance with the requirements specified in condition 18.

Definitions

In this licence, the terms in Table 8 have the meanings defined.

Table 8: 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 January until 31 December in the same 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
Colourstone WWTS	Means the HY-DAF wastewater treatment system designed to collect and treat wastewater generated from operations at the Colourstone Abattoir located at Lot 210 on Plan 186082, Great Northern Highway, ROEBUCK WA 6725
Condition	means a condition to which this Licence is subject under s.62 of the EP Act.
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.
Department Request	means a request for Books or other sources of information to be produced, made by an Inspector or the CEO to the Licence Holder in writing and sent to the Licence Holder's address for notifications, as described at the front of this Licence, in relation to: (a) compliance with the EP Act or this Licence; (b) the Books or other sources of information maintained in accordance with this Licence; or the Books or other sources of information relating to Emissions from the Premises.
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)

Term	Definition
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
Inspector	means an inspector appointed by the CEO in accordance with s. 88 of the EP Act
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	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.
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.
Waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

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

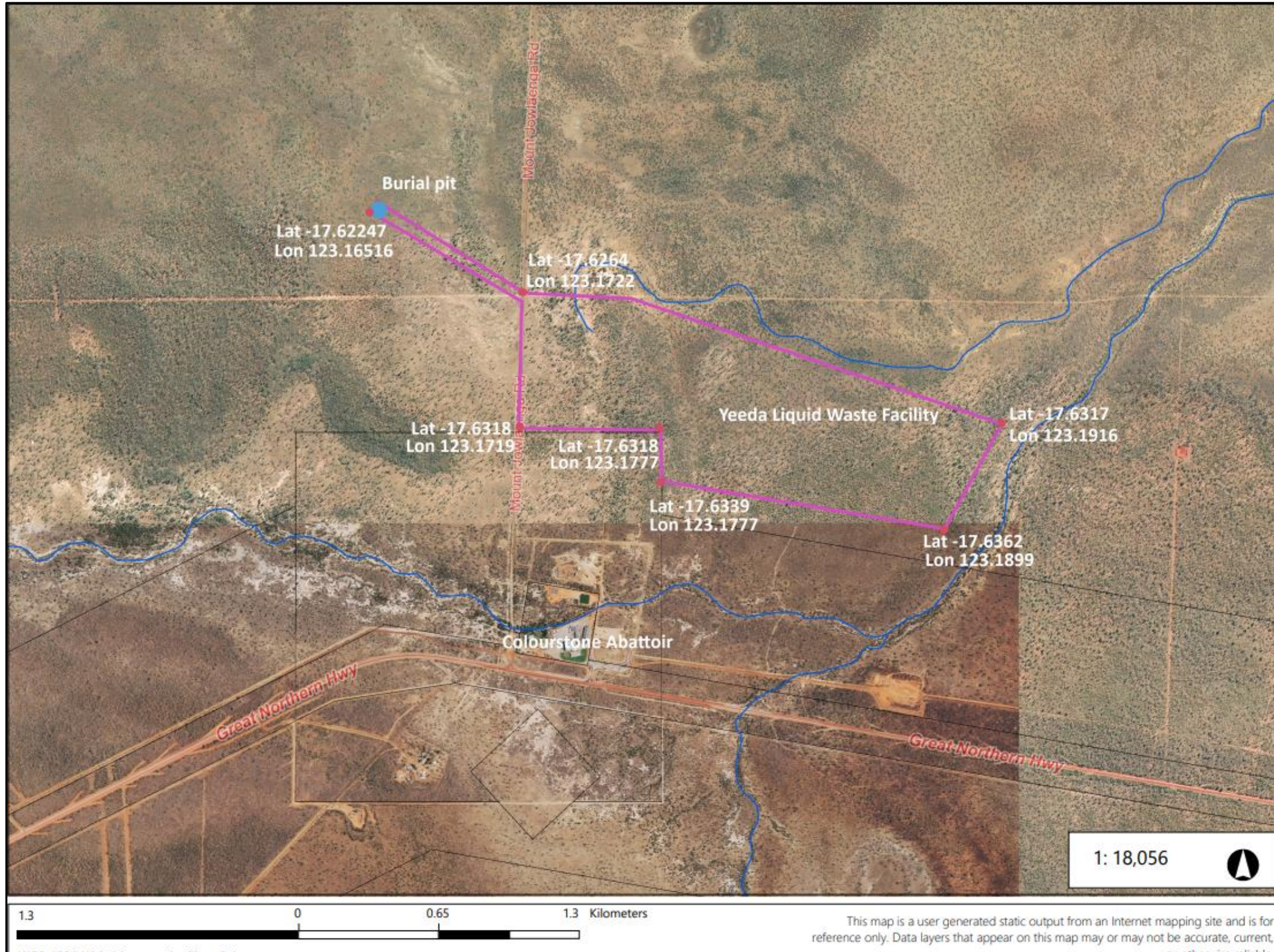


Figure 1: Map of the boundary of the prescribed premises and location of burial pit (blue dot)

Map of authorised discharge points

The authorised discharge point (irrigation area) is shown in the map below (Figure 2). The area shaded green depicts the authorised irrigation area (Irrigation plots 1 – 4).

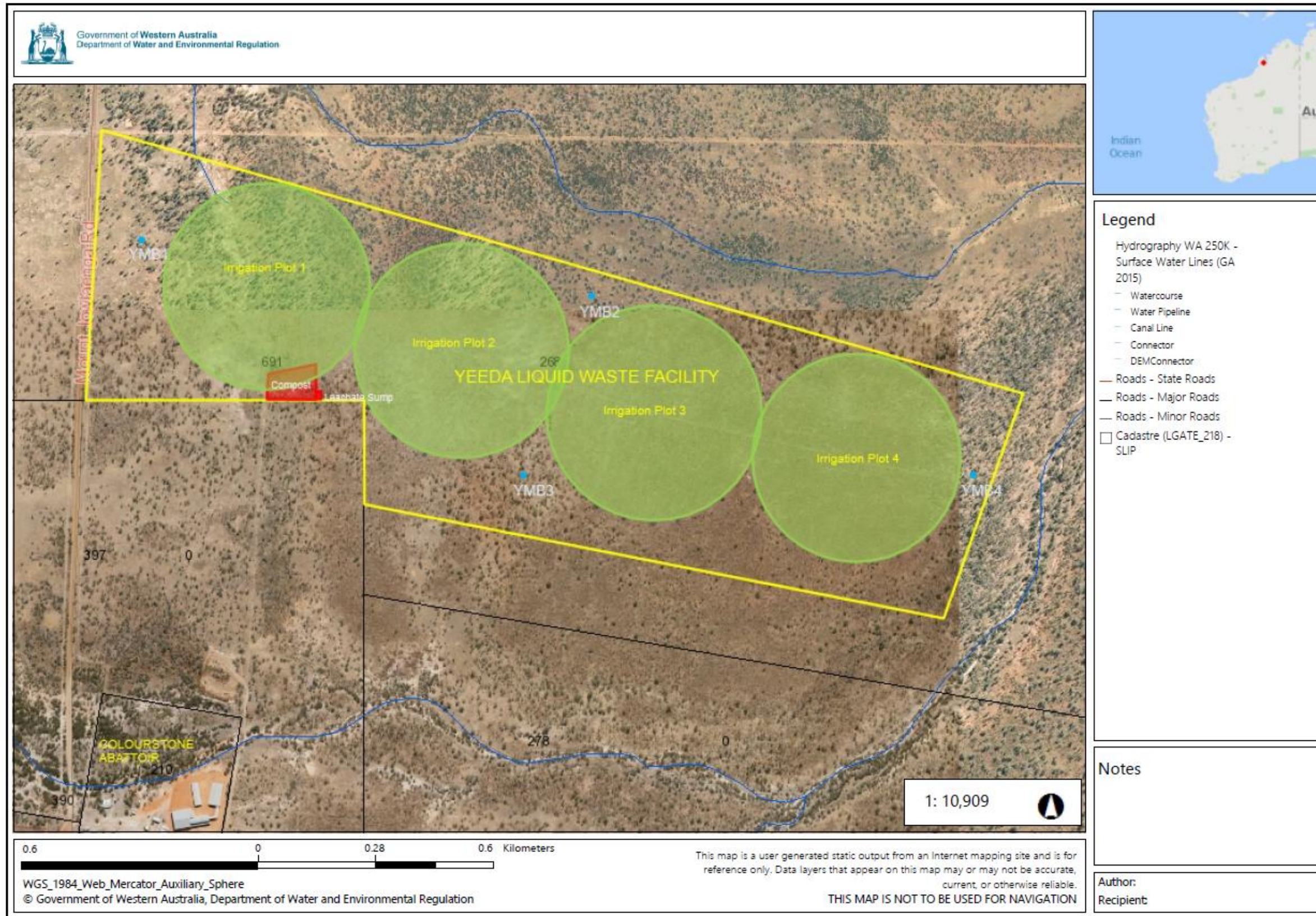


Figure 2: Map of Premises authorised discharge points

Map of groundwater monitoring bores

The Premises groundwater monitoring bores (YMB1 – YMB4) are shown in the map below (Figure 3). The yellow dots depict the location of the bores.

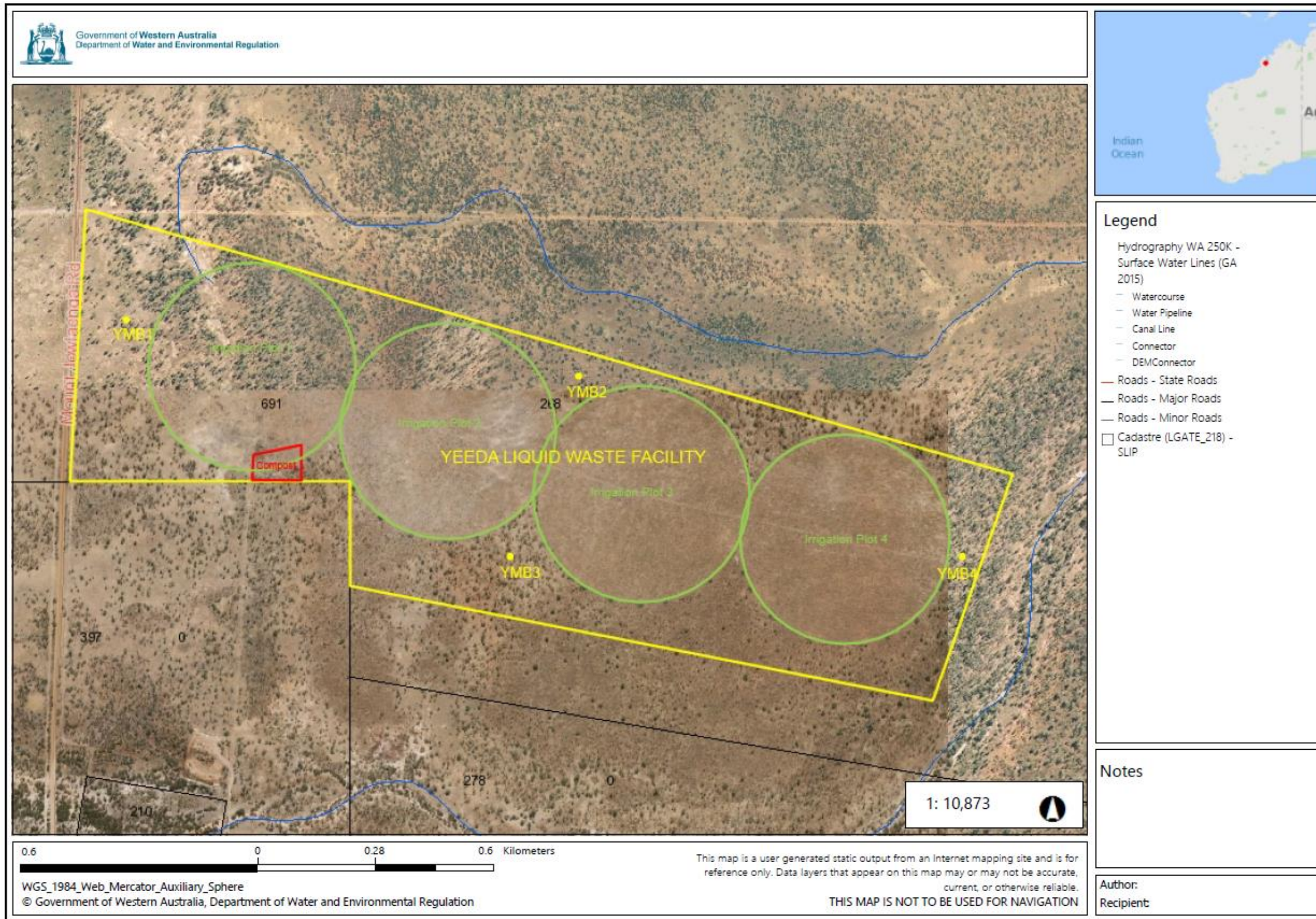


Figure 3: Map of Premises groundwater monitoring bores

Premises boundary

The premises boundary is defined by the coordinates (decimal degrees) in Table 9.

Table 9: Premises boundary coordinates (GDA20)

Latitude	Longitude
-17.6264	123.1722
-17.6318	123.1719
-17.6318	123.1777
-17.6339	123.1777
-17.6362	123.1899
-17.6317	123.1916
-17.62247	123.16516