Government of Western Australia
Department of Water and Environmental Regulation

Licence

Licence number	L9417/2023/1
Licence holder	Kumina Iron Pty Ltd
ACN	169 725 973
Registered business address	20 Walters Drive Osborne Park WA 6017
DWER file number	DER2023/000657
Duration	14/03/2024 to 13/03/2044
Date of issue	14/03/2024
Date of amendment	19/12/2024
Premises details	Onslow Camp Dunes Shire of Ashburton Legal description - M08/488, G08/80, L08/127 and Pastoral Lease 3114/905 As defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production / design capacity**
Category 12: Screening, etc. of material	2,000,000 tonnes per annual period
Category 54: Sewage facility	• 106 m^3 per day of effluent • 66 m^3/day of brine from the reverse osmosis plant
Category 57: Used tyre storage (general)	2,800 used tyres stored at any one time
Category 73: Bulk storage of chemicals etc	2,210 m^3 in aggregate
Category 77: Mobile concrete batching plant	265,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 19 December 2024, by:

Lauren Edmands
Digitally signed by Lauren Edmands
Date: 2024.12.19 15:31:11 +08'00'

A/SENIOR MANAGER, RESOURCE INDUSTRIES

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

Licence history

Date	Reference number	Summary of changes
8/12/2022	W6726/2022/1	Works Approval Granted
14/03/2024	L9417/2023/1	Licence granted.
19/12/2024	L9417/2023/1	Licence amended to include prescribed premises categories 12, 57, 73 and 77 activities and update category 54 spray field area.

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:

Construction phase

Infrastructure and equipment

1. The licence holder must construct and/or install the infrastructure and/or equipment:

(a) in accordance with the corresponding design and construction / installation requirements;

(b) at the corresponding infrastructure location; and

(c) within the corresponding time frame.

as set out in Table 1.

Table 1: Design and construction / installation requirements

Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
Mobile crushing and screening plant	• Mobile crushing and screening plant to consist of: – Jaw crusher – Cone crusher – Horizontal screener – Mounted mobile conveyor • Conveyors from screen to stockpiles to have dust covers installed • Dust suppression sprinklers to be installed on main conveyor of jaw crusher and secondary cone crusher	Within prescribed premises boundary as depicted in Figure 1 of Schedule 1	The mobile crushing and screening infrastructure is to be installed/ constructed by 31/12/2029
Diesel and oil storage tanks	• 2x 200kL diesel tanks to consist of: – Double-skinned construction – Constructed in accordance with AS 1692-2006 – *Steel tanks for flammable and combustible liquids* – Constructed of impervious material and free from leaks and defects • Spill kits to be provided and checked on a regular basis and maintained in good order.	Within the ‘Cat 73’ areas as depicted in Figure 2 of Schedule 1	Diesel and oil storage tanks to be installed/ constructed by 31/12/2029

Compliance reporting

2. The licence holder must within 30 calendar days of an item of infrastructure or equipment 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 the following:

(a) certification by a suitably qualified person that the items of infrastructure or component(s) 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.

4. The licence holder must ensure that the site infrastructure and equipment listed in Table 4 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 4.

Waste Acceptance

5. The licence holder must only accept waste to the WWTP of a type that:

(a) does not exceed the rate at which that waste is received; and

(b) meets the relevant acceptance specification,

as set out in Table 2.

Table 2: Waste acceptance criteria

Waste type	Rate at which waste is received	Acceptance specifications[1]
Sewage	106 m^3/day	Accepted via sewerage inflow

Note 1: Additional requirements for the acceptance of controlled waste are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

Waste processing

6. The licence holder must ensure that the waste types specified in Table are only subjected to the corresponding processes, and subject to the corresponding process specifications as set out in Table 3.

Table 3: Waste processing

Waste type	Processes	Process limits and specifications
Sewage AWWTP and TMF	Biological and physical treatment prior to disposal via irrigation area.	a) Must not process more than 106 m^3/day; b) AWWTP TWW is directed to the 3.25 ha Accommodation Spray Field for disposal; c) TMF TWW is directed for disposal to the 'TMF WWTP Spray Field' as depicted in Figure 2 of Schedule 1; and d) Final treated effluent irrigation storage tank (Balance tank x 50kL) capable of storing all wastewater not able to be discharged to the Accommodation Spray Field.
RO brine	Storage prior to discharge to the Accommodation Spray Field	a) Stored in the Final treated effluent irrigation storage tank (Balance tank x 50kL); and b) No more than 66 m^3/day of RO brine is supplied to the AWWTP for disposal to the Accommodation Spray Field.
Sewage sludge	Removal prior to offsite disposal	Have a sealed connection point for pumping-out tank sludge for offsite disposal to a licensed waste facility.
Grit and screenings	Removal, dewatering and temporary storage prior to offsite disposal	Screenings are contained within a sealed bin prior to removal for disposal to a licensed disposal facility.

Infrastructure and equipment

7. The licence holder must ensure that the site infrastructure and equipment listed in Table 4 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 4.

Table 4: Infrastructure and equipment operational requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
WWTP and Pipeline	• Volumetric flow meters are maintained on the RO brine holding tank outlet, AWWTP inlet and outlet to the Accommodation Spray Field; • All sewage storage and treatment tanks, vessels, transfer pipelines and conveyance infrastructure must be impermeable and free of leaks or defects; and • Chemicals must be stored in accordance with Australian Standard AS3780-1994.	As shown in Schedule 1 Monitoring map
RO brine pipeline	All transfer pipelines and conveyance infrastructure must be impermeable and free of leaks or defects.	As shown in Schedule 1 Monitoring map

Site infrastructure and equipment	Operational requirement	Infrastructure location
Accommodation WWTP Spray Field	• Minimum area of 2.88 ha + 5 m spray drift buffer; • Not more than 166 m^3 of blended effluent applied per day to the designated Accommodation Spray Field area; • Irrigation is managed to prevent ponding and pooling of effluent on the ground surface of the Accommodation Spray Field; and • No blended effluent is permitted to runoff or discharge beyond the Accommodation Spray Field.	As shown in Schedule 1 Monitoring map
TMF Spray Field	• Minimum area of 0.17 ha + a 5 m spray drift buffer • Not more than 6 m^3 of effluent applied per day to the designated TMF Spray Field area; • Irrigation is managed to prevent ponding and pooling of effluent on the ground surface of the TMF Spray Field; and • No effluent is permitted to runoff or discharge beyond the TMF Spray Field	As shown in Figure 2 of Schedule 1
Mobile crushing and screening plant	• Conveyors from screen to stockpiles to have dust covers • Dust suppression sprinklers to be maintained on main conveyor of jaw crusher and secondary cone crusher • Maintain all mobile equipment as per manufacturer's specifications	Within the prescribed premises boundary as depicted in Figure 1 of Schedule 1
Wastewater treatment plant (WWTP)	WWTP maintained to meet the following specifications: • Treat up to 106 m^3/day for combined WWTPs. ▪ Accommodation WWTP (AWWTP) treat up to 100 m^3/day of raw sewage. ▪ Truck Maintenance Facility (TMF) WWTP treat up to 6 m^3/day of raw sewage. • Treat sewage to the following output emission standards: ▪ pH – 6.5 to 8.5; ▪ E.Coli <1,000 cfu/100ml ▪ Total Nitrogen – 30 mg/L ▪ Total Phosphorus – 12 mg/L ▪ Total Suspended Solids – 30 mg/L	As shown in Figure 2 of Schedule 1

Site infrastructure and equipment	Operational requirement	Infrastructure location
	▪ Biochemical Oxygen Demand – 20 mg/L • Tanks holding untreated and treated wastewater to maintain alarms fitted (audible) to detect high volume levels. • WWTP chemicals to be bunded and stored in accordance with AS 3780-2008.	
Used tyre storage area	• Compacted earthen base to be maintained. • Individual tyre stacks are not to exceed: o 3.7m in height; o 60 m2 in area. • A maximum of four tyre stacks can be grouped together as a 'tyre pile' with a minimum separation distance of 2.5m must be maintained between each tyre stack. • A minimum 18m separation distance must be maintained between from combustible structures or materials and each 'tyre pile' and 'tyre stacks'.	As shown in Figure 2 of Schedule 1
Diesel and oil storage facilities	• Hydrocarbon storage tanks to consist of the following: ▪ Up to 6x 200kL double skinned bulk diesel storage tanks; ▪ 1 x multi compartmental double skin bulk tank comprising of 6 x 11.68 kL tanks for the purpose of clean oil lubricant storage; ▪ 1 x 76 kL tank for the purpose of waste oil lubricant storage; and • Hydrocarbon tanks to be bunded according to Australian Standard 1940 *The Storage and Handling of Flammable and Combustible Liquids*	As shown in Figure 2 of Schedule 1
Stormwater management	• Surface water infrastructure to be maintained to contain a 10-year Annual Exceedance Probability (AEP); • Inlet and outlets to culverts to be rock-pitched to minimise erosion.	N/A
Mobile concrete batching plant – includes augers, hoppers and silos	• Fixed water sprays • Silo Filters and Overflow Protection	As shown in Figure 2 of Schedule 1

Emissions and discharges

General

8. The licence holder must immediately recover or remove and dispose of spills of sewage, reject brine, concrete/cement slurry, hydrocarbons or other waste material located outside of an engineered containment system.

9. The licence holder must ensure that all material used for recovery, removal, and/or disposal in accordance with condition 8 is stored in an impermeable container prior to disposal at an appropriately authorised facility.

10. The licence holder must ensure that the emission specified in Table 5, is discharged only from the corresponding discharge points and only at the corresponding discharge point location.

Table 5: Authorised discharge points

Emission	Discharge point	Discharge point location
AWWTP blended effluent	Sprinklers within the Accommodation Spray Field	Accommodation Spray Field as shown in Figure 2 of Schedule 1
TMF TWW	Sprinklers within the TMF Spray Field	TMF Spray Field as shown in Figure 2 of Schedule 1

Monitoring

11. The licence holder must monitor emissions and discharges in accordance with the requirements in Table 6.

Table 6: Emissions and discharge monitoring during operations

Discharge point	Monitoring location	Parameter	Unit	Frequency	Method
Accommodation Spray Field; and TMF Spray Field Both depicted in Figure 2 of Schedule 1	WWTP outlet	*E. coli*	cfu / 100mL	Quarterly	Spot sample
		Thermotolerant coliforms			
		BOD	mg/L		
		TSS			
		TN			
		TP			
		TDS			
		pH[1]	pH unit		
		Cumulative flow volume discharged to the Accommodation spray field[1]	m^3	Continuous	N/A

Accommodation Spray Field; and TMF Spray Field Both depicted in Figure 2 of Schedule 1	RO brine pipeline outlet	Cumulative flow volume supplied to the Accommodation WWTP	m^3	Continuous	N/A

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

General

12. For the monitoring activity required by condition 11 the licence holder must:

(a) record the results;

(b) handle and preserve all water samples collected during the monitoring of the WWTP in accordance with Australian Standard 5667.1:1998 Water Quality – Sampling; and

(c) have analysis conducted by a laboratory with current National Association of Testing Authorities (NATA) accreditation for the parameters specified.

13. The licence holder must ensure that monitoring is undertaken in each quarterly period such that there are at least 45 days in between the date on which samples are taken in successive quarters.

Records and reporting

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

16. The licence holder must submit to the CEO by 31 July 2025 and biennially thereafter, an Environmental Report for the preceding two annual periods 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

Conditions	Requirements
-	A summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during each annual period, including any actions taken.
7 (Table 4)	Summary of any wastewater treatment plant specification exceedances and any action taken.
N/A	A summary of inspections and maintenance performed / undertaken to address the specifications in Condition 7, Table 4 during each annual period.
11 (Table 6)	(a) Tabulated monitoring data results and time-series graphs showing concentrations of all parameters over a minimum three-year period (where sufficient data allows); (b) Contaminant loading (kg/day and kg/ha/year – monthly and annual average) to land of the parameters listed in Table 6; and (c) An assessment and interpretation of the data, including comparison to historical trends and loading rates listed in Table 6 for TN and TP respectively.
14	A summary of complaints received, and any action taken to investigate or respond to any complaint.

17. 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 7 of this licence;

(c) monitoring programmes undertaken in accordance with condition 11 of this licence; and

(d) complaints received under condition 14 of this licence.

18. The books specified under condition 17 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.

Definitions

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

Table 8: Definitions

Term	Definition
ACN	Australian Company Number
AWWTP	Accommodation WWTP
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 3780-2008	means Australian Standard 3780-2008 *The storage and handling of corrosive substances.*
AS/NZS 5667.1-1998	means Australian Standard/New Zealand Standard 5667.1-1998 Water quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.
biennially	means every two years
blended effluent	TWW or TWW combined with RO brine.
books	has the same meaning given to that term under the EP Act.
BOD	biochemical oxygen demand
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
CFU	colony forming units
Department	means the department established under section 35 of the *Public Sector Management Act 1994* (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.
E. coli	*Escherichia coli*
EP Act	*Environmental Protection Act 1986* (WA)

Term	Definition
EP Regulations	*Environmental Protection Regulations 1987* (WA)
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.
m^3	cubic metres
mg/L	milligrams per litre
mL	milliliter
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(s) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
RO	Reverse Osmosis
RO brine	Waste brine with high concentrations of salt as a result of Reverse Osmosis
TDS	Total Dissolved Solids
TMF	Truck Maintenance Facility
TN	Total Nitrogen
TP	Total Phosphorus
TSS	Total Suspended Solids
TWW	Treated Wastewater
waste	has the same meaning given to that term under the EP Act.
WWTP	Wastewater Treatment Plant

END OF CONDITIONS

Schedule 1: Maps

Figure 1: Prescribed premises boundaries

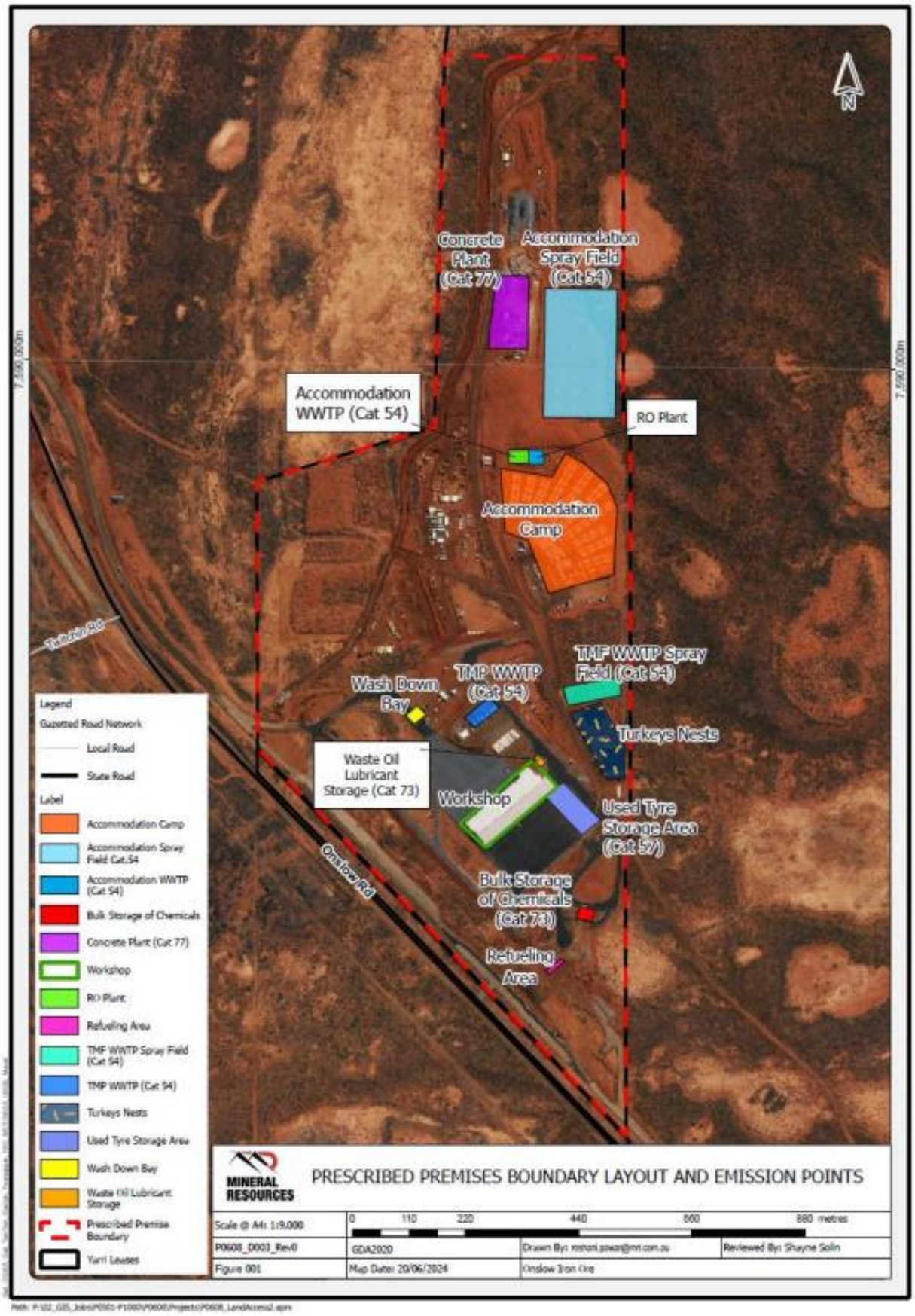

Figure 2: Location of activities