



Licence Number L4385/1988/12

Licence Holder Pilbara Iron Company (Services) Pty Ltd
ACN 107 210 248

Registered business address Level 22, Central Park
152-158 St Georges Terrace
PERTH WA 6000

File Number DER2014/000870-1

Duration 26/05/2011 to 31/05/2031

Date of amendment 03/03/2020

Premises details Channar Iron Ore Mine
Mining tenement M265SA
ROCKLEA WA 6751
(as depicted in Schedule 1)

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 5: Processing or beneficiation of metallic or non-metallic ore	More than 5 000 000 tonnes per year
Category 12: Screening etc. of material	More than 5 000 000 tonnes per year
Category 85: Sewage facility	More than 20 but less than 100 cubic metres per day

This Licence is granted to the Licence Holder, subject to the following conditions, on 03 March 2020, by:

Lauren Fox

/MANAGER RESOURCE INDUSTRIES

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

Licence history

The licences issued for the Premises since 26 May 2011 are in Table 1 below:

Table 1: licence history since May 2011		
Instrument	Issued	Description
L4385/1988/12	26/05/2011	Licence re-issue
L4385/1988/12	16/12/2016	Amendment Notice 1: Licence amendment notice was issued with: <ul style="list-style-type: none"> • Administrative changes to conditions 1, 2, 7 and Licence definitions; • Removal of Category 73 – Bulk storage of chemicals; and • Addition of Category 12 – Screening etc. of material.
L4385/1988/12	03/03/2020	DWER initiated amendment as per section 59(b) of <i>Environmental Protection Act 1986</i> to amalgamate Amendment Notice 1, correct clerical errors and convert licence into the current licence format.

Amendment January 2020

The CEO initiated an amendment to the type and style of the licence during January 2020 and issued a revised licence consolidating changes made under Amendment Notices issued between 2016 to 2019 (as detailed in the instrument log above), where relevant. The obligations of the Licence Holder have not changed in making this amendment. During the consolidation of this amendment, DWER has not undertaken any additional risk assessment of the Premises.

In consolidating the licence, the CEO has:

- updated the format and appearance of the Licence;
- deleted the redundant AACR form set out in schedule 1 of the previous licence and advise the Licence Holder to obtain the form from the Department's website;
- revised licence condition's numbers, and removed any redundant conditions and realigned condition numbers for numerical consistency; and
- corrected clerical mistakes and unintentional errors.

Definitions

In these conditions of licence, unless inconsistent with the text or subject matter:

'ACN' means Australian Company Number;

'AACR' means Annual Audit Compliance Report' in a format approved by the CEO as presented by the Licence Holder or as specified by the CEO from time to time and published on the Department's website;

'Annual Period' means a 12 month period commencing from 1 January until 31 December in that year;

'Australian Standard 5667' means the most recent version and relevant part of AS/NZS 5667;

'CEO' means Chief Executive Officer of the Department of Water and Environmental Regulation;

'CEO' for the purposes of notification means:

Chief Executive Officer
Department Administering the *Environmental Protection Act 1986*
Locked Bag 10
JOONDALUP DC WA 6027
Telephone: (08) 6367 7000
Facsimile: (08) 6367 7001
Email: info@dwer.wa.gov.au

'contaminated stormwater' means stormwater that has come into contact with pollutants such as oil and grease, petroleum hydrocarbons, process wastes or materials, spills, sediment, gross solids/litter etc, and is carrying or potentially carrying such material;

'Department' means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V, Division 3 of the EP Act;

'DWER' means Department of Water and Environmental Regulation.

'EP Act' means *Environmental Protection Act 1986 (WA)*;

'EP Regulations' means *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;

'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 in Schedule 1 to this licence;

'prescribed premises' has the same meaning given to that term under the EP Act;

'Quarterly' means the 4 inclusive period from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September and 1 October to 31 December in the same year; and

'Waste' has the same meaning given to that term under the EP Act.

Licence conditions

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

General Conditions

1. The Licence Holder shall provide to the CEO, by **30 April** in each year, a copy of an Annual Environmental Report containing monitoring results and data collected as required by any condition of this licence during the period **1 January** the previous year and ending on **31 December** in that year.
2. The Licence Holder shall by **30 April** each year, provide to the CEO an Annual Audit Compliance Report indicating the extent to which the Licence Holder has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the annual period **1 January and ending on 31 December** in that year.

Dust management

- 3(a) The Licence Holder shall take measures to prevent the generation of visible dust from materials handling operations, stockpiles, open areas and transport activities. Such measures may include, but are not limited to:
 - (i) maintaining stockpiles in a damp condition;
 - (ii) sealing non-working faces to prevent dust lift off;
 - (iii) spraying surfaces with water;
 - (iv) sealing surfaces with chemical dust suppressants; and
 - (v) rehabilitation of disturbed areas
- 3(b) The Licence Holder shall maintain installed dust collection and dust control systems including:
 - (i) coverings on conveyors, transfer points and discharge points;
 - (ii) skirtings; and
 - (iii) dust filtersas measures to prevent the generation of visible dust from the premises.

Stormwater management

- 4(a) The Licence Holder shall ensure that the premises is drained such that all contaminated stormwater is retained and treated for sediment and total hydrocarbon contamination prior to being discharged from the premises.
- 4(b) The Licence Holder shall ensure that the concentration of total petroleum hydrocarbons in waters discharged from the premises does not exceed 30 milligrams per litre.

Waste management from ancillary operations

- 5 The Licence Holder shall utilise and maintain, as appropriate, protective bunding, skimmers, silt traps, neutralisation pits, fuel and oil traps, drains, and sealed collection sumps around the process plant, maintenance workshops and power generation areas to ensure the recovery of all spillages prevent discharges to surrounding soils and groundwater.

Oily and solvent wastewater treatment system

- 6 The Licence Holder shall maintain a wastewater treatment system for oily and solvent wastewater, such that uncontaminated stormwater is prevented from entering the system.

Water monitoring

- 7(a) The Licence Holder shall, on a **monthly** basis, measure and record in cubic meters, the cumulative volumes of all waters discharged from the Channar Sedimentation Pond discharge point to the environment. These results shall be published in the Annual Environmental Report.
- 7(b) The Licence Holder shall take and have analysed, representative water samples from the monitoring site shown in Column 1 of Table 2, at the frequencies stated in Column 2 of Table 2, for the parameters listed in Column 3 of Table 2.

Table 2: Water monitoring requirements		
Column 1	Column 2	Column 3
Monitoring sites	Sampling Frequency	Parameters
Channar Sedimentation Pond discharge point	Quarterly	pH (pH unit) ¹ Total Dissolved Solids (mg/L) Total Suspended Solids (mg/L) Total Recoverable Hydrocarbons (mg/L) Chemical Oxygen Demand (mg/L) Surfactants (mg/L) Metals (mg/L) Pb, Cu, Fe, Mn, Mo, Zn, As, Hg, Cd and Cr.
Channar WWTP	Quarterly	Biochemical Oxygen Demand (mg/L) Total Suspended Solids (mg/L) pH (pH unit) ¹ Total Nitrogen (mg/L) Total Phosphorus (mg/L) Thermo-tolerant coliforms (cfu/100mL)

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

- 7(c) The Licence Holder shall collect water samples in accordance with the relevant parts of Australian Standard 5667.
- 7(d) The Licence Holder shall ensure that all analyses are conducted by an organisation with NATA accreditation for the specified parameters in accordance with the current Standard Methods for Examination of Water and Wastewater-APHA-AWWA-WEF.
- 7(e) The Licence Holder shall compare the results from the water monitoring schedule required by part (b) of this condition for each parameter listed in Column 1 of Table 3 with the target levels stated in Column 2 of Table 3 and present this information in the Annual Environmental Report and report any exceedances of these targets in the Annual Audit Compliance Report.

Table 3: Discharge Parameters and Targets for the Channar Sedimentation Pond discharge point	
Column 1	Column 2
Parameter	Target level
Total Dissolved Solids (mg/L)	5000 mg/L (ANZECC, 2000 – Livestock drinking water quality)

Table 3: Discharge Parameters and Targets for the Channar Sedimentation Pond discharge point	
Column 1	Column 2
Parameter	Target level
pH	6 to 9 (ANZECC, 2000 – Slightly disturbed aquatic ecosystems/lowland rivers).
Total Petroleum Hydrocarbons (mg/L)	30 mg/L
Metals (µg/L) – Pb, Cu, Fe, Mn, Mo, Zn, As, Hg, Cd, Cr	ANZECC (2000) – Livestock drinking water quality.

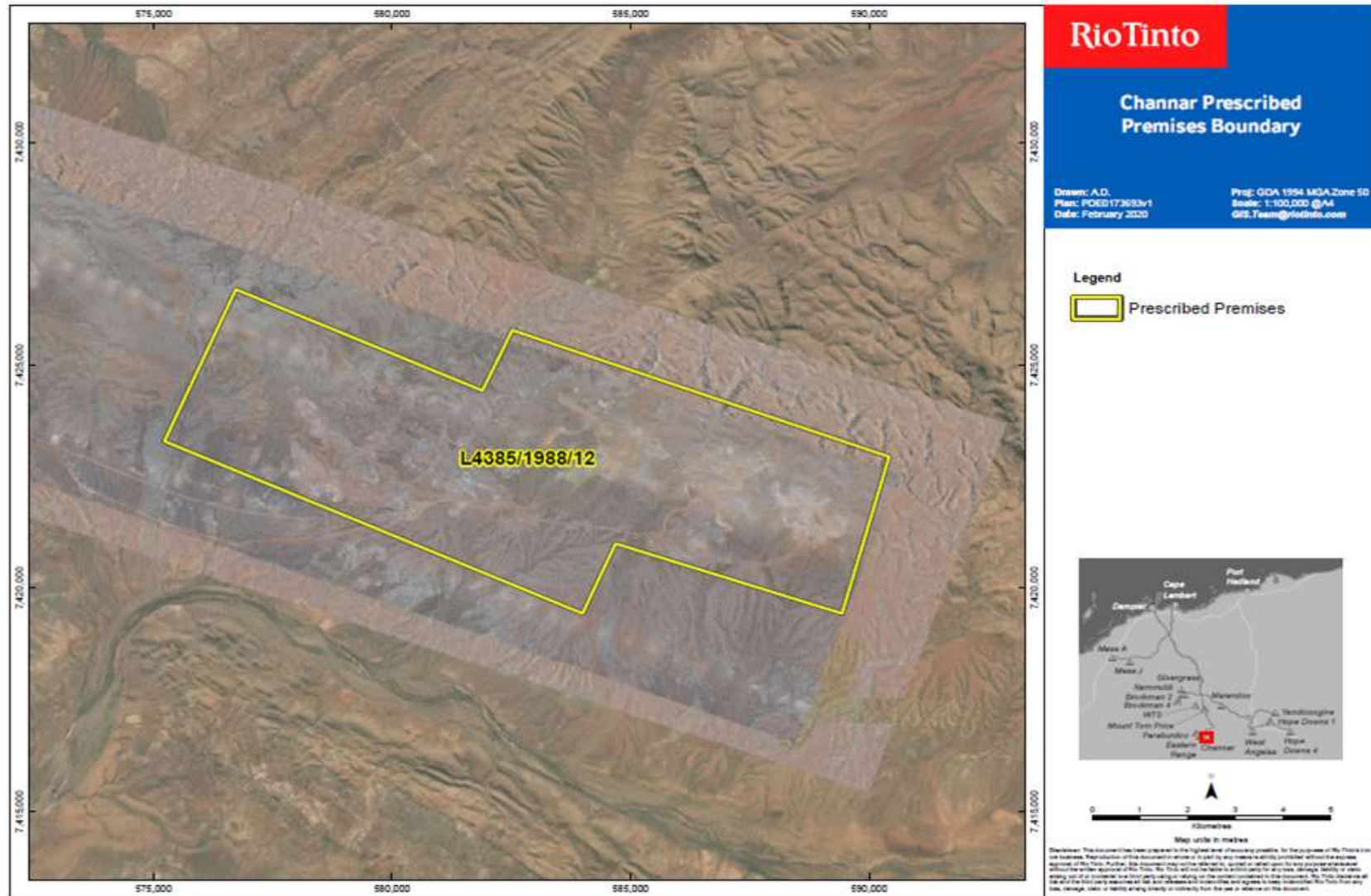
Liquid chemical storage

- 8(a) The Licence Holder shall store environmentally hazardous chemicals including, but not limited to, fuel, oil or other hydrocarbons (where the total volume of each substance stored on the premises exceeds 250 litres) within low permeability (10^{-9} metres per second or less) compound(s) designed to contain not less than 110% of the volume of the largest storage vessel or inter-connected system, and at least 25% of the total volume of substances stored in the compound.
- 8(b) The compound(s) described in part (a) of this condition shall:
- (i) be graded or include a sump to allow recovery of liquid;
 - (ii) be chemically resistant to the substances stored;
 - (iii) include valves, pumps and meters associated with transfer operations wherever practical. Otherwise the equipment shall be adequately protected (eg. bollards) and contained in an area designed to permit recovery of chemicals released following accidents or vandalism;
 - (iv) be designed such that jetting from any storage vessel or fitting will be captured within the bunded area [see for example Australian Standard 1940-2004 Section 5.8.3 (h)];
 - (v) be designed such that chemicals which may react dangerously if they come into contact, are in separate bunds in the same compound or in different compounds; and
 - (vi) be controlled such that the capacity of the bund is maintained at all times (eg. regular inspection and pumping of trapped uncontaminated rain water).
- 8(c) The Licence Holder shall as soon as practicable recover, or remove and dispose of, any liquid resulting from spills or leaks of chemicals including fuel, oil or other hydrocarbons, from inside or outside the low permeability compound(s).
- 9 The Licence Holder shall only operate the Mobile Crushing and Screening Plant in accordance with the Iron Ore (WA) Mobile Crushing and Screening Management Plan (RTIO-HSE-0235877).

Schedule 1: Maps

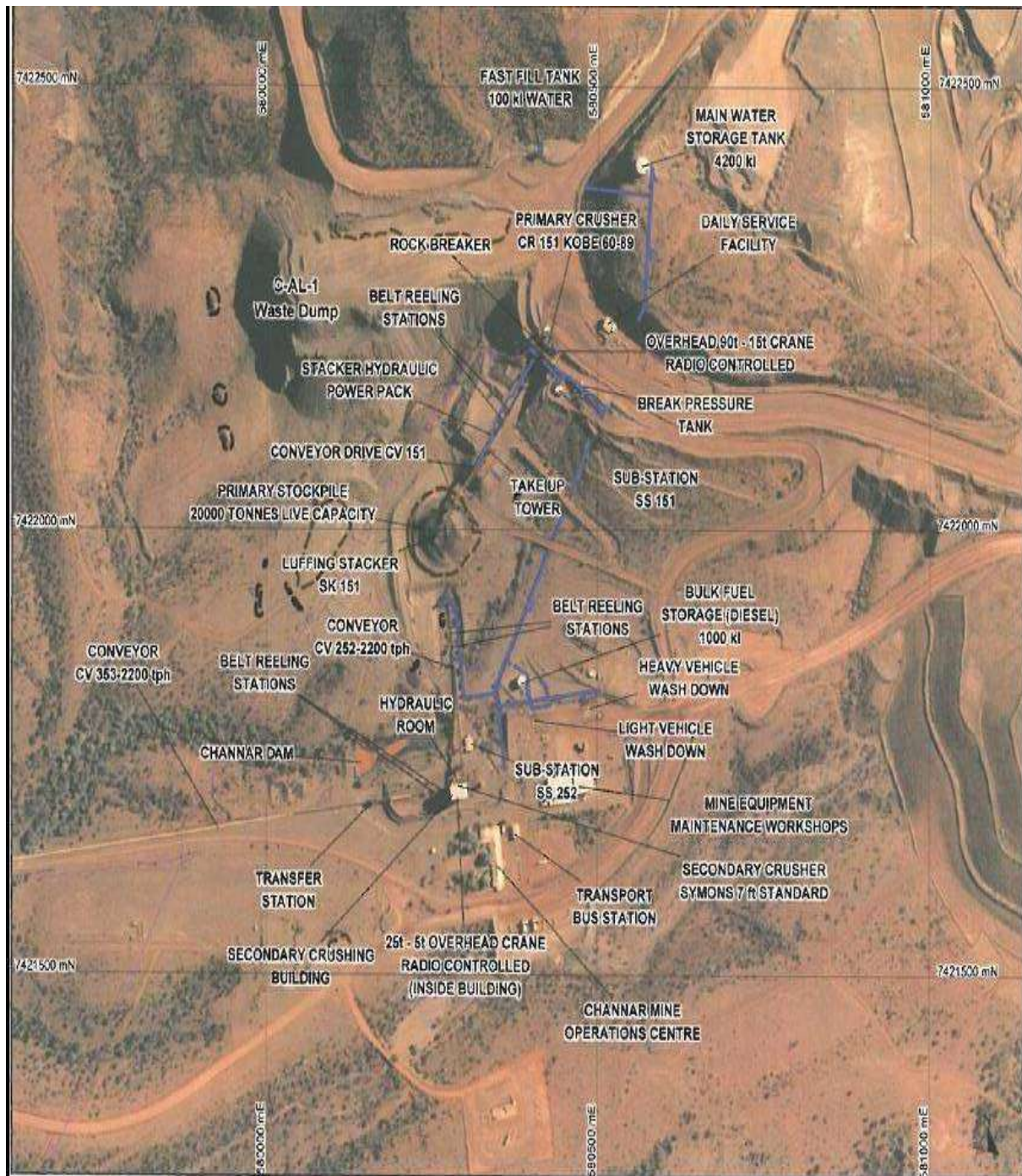
Premises map

The Premises are shown in the map below. The Premises boundary is depicted in yellow line.



Schedule 2:

LOCATION OF INFRASTRUCTURE – CHANNAR IRON ORE MINE



Map for emission point:

Sedimentation pond discharge point Condition 7(b).

