



Licence number	L8562/2011/1
Licence holder	Hamersley Iron Pty Ltd
ACN (if applicable)	004 558 276
Registered business address	Level 22, Central Park 152-158 St Georges Terrace PERTH WA 6000
DWER file number	DER2014/000869
Duration	19/03/2012 to 18/03/2030
Date of amendment	23/06/2020
Premises details	Koodaideri Exploration Camp Mining Tenement ML252SA Section 2, within coordinates – E708,070 N7,510,070; E706,830 N7,507,440; E708,850 N7,506,520; E709,670 N7,508,230; E715,870 N7,505,370; E716,310 N7,506,300 NEWMAN WA 6753

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 64: Class II putrescible landfill site	2,000 tonnes per year
Category 54: Sewage facility	558 cubic metres per day

This licence is granted to the licence holder, subject to the attached conditions on 23 June 2020,
by:

ALANA KIDD

MANAGER, RESOURCE INDUSTRIES

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

Licence history

Date	Reference number	Summary of changes
15/03/2012	L8562/2011/1	Licence granted.
07/03/2013	L8562/2011/1	Amendment to include category 64 and adjustment to the reporting year
29/11/2018	L8562/2011/1	<p>Amendment Notice 1</p> <p>Amendment for the following:</p> <ul style="list-style-type: none"> Replace category 85 with category 54 to facilitate an increase in capacity of wastewater treatment from 46.5 m³/day to 418.5 m³/day; Increase the throughput of category 64 from 50 tonnes per year to 2,000 tonnes per year and include special waste types 1 and 2. The latter is to cater for the disposal of asbestos wastes, which may be located during the refurbishment of the camp and clinical wastes from the medical centre; and Changes to the boundary of the prescribed premises.
23/06/2020	L8562/2011/1	<p>Amendment Report for an additional 186 m³/day WWTP3 and associated spray field to service up to 1800 people (previously 1200).</p> <p>The total capacity of WWTPs onsite will be 558 m³/day. This incorporates the current Category 54 capacity of 418.5 m³/day, minus 46.5 m³/day for the old resource evaluation WWTP which is no longer operational and is to decommissioned, and addition of the 186 m³/day WWTP3.</p> <p>Also amalgamated Amendment Notice 1.</p>

Interpretation

In this licence:

- the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- 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;
- where tables are used in a condition, each row in a table constitutes a separate condition;
- 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:
 - (a) construct and/or install the infrastructure and/or equipment;
 - (b) in accordance with the corresponding design and construction / installation requirements;
 - (c) at the corresponding infrastructure location; and
 - (d) within the corresponding timeframe, as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
WWTP3				
1.	Influent Screening and Balance Tank	Excessive levels in this tank will eventually gravitate to the Anoxic, Aeration / Decant and Final Effluent Discharge Tanks and discharge to the HDPE lined Emergency Overflow Pond High level audible and visual alarms	714,400E 7,506,700N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
2.	Anoxic Tank	Emergency overflows to the HDPE lined Emergency Overflow Pond High level audible and visual alarms	714,400E 7,506,700N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
3.	Denitrification step	High level audible and visual alarms	714,400E 7,506,700N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
4.	Aeration / Decant Tank sequence	Emergency overflows to the HDPE lined Emergency Overflow Pond High level audible and visual alarms	714,400E 7,506,700N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
5.	Final Effluent Discharge	Emergency overflows to the HDPE lined	714,400E	Prior to the submittal of the Environmental

	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
	Tank	Emergency Overflow Pond High level audible and visual alarms	7,506,700N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Compliance Report required by condition 2
6.	Emergency overflow points to the Emergency Overflow Pond	From the Anoxic Tank, Aeration / Decant Tank and Effluent Tank to the Emergency Overflow Pond (and the other tanks are connected to these)	714,400E 7,506,700N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
7.	Emergency Overflow Pond (already in place)	HDPE lined High level audible and visual alarms; Capacity 2,000,000L; (in excess of 3 days sewage production with both WWTPs fully loaded (1,674,000L) Dimensions of 36m x 36m and 2m deep Freeboard of 300mm	714,400E 7,506,700N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Already in place
Spray field				
8.	Spray field	Sized to 9ha 11 rows with, on average 15 impulse sprinklers per row (approximately 165 sprinklers) Fully fenced and signposted	714,420E 7,506,920N Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
Pipelines				
9.	Permanent pipeline between the Koodaideri Village and WWTPs compound	Installed below ground within the service corridor Design, manufacture and installation to be compliant with all relevant Australian Standards and pressure tested to Australian Standards.	Schedule 1: Maps, Premises map, Figure 1 and Figure 2	Prior to the submittal of the Environmental Compliance Report required by condition 2
Sludge drying beds				
10.	Sludge drying beds	Sludge drying beds are a concrete enclosure	714,400E	Prior to the submittal of the Environmental

	Infrastructure	Design and construction / installation requirements	Infrastructure location	Timeframe
		<div>divided into two separate beds</div> <div>Two layers of filter sand to be on the floor of the concrete beds</div> <div>Concrete floor in each bed contains a slotted under drain that collects filtrate and directs it to a collection sump</div> <div>Filtrate from sludge drying beds is transferred back to the WWTP3</div> <div>Dried sludge material is to be transferred offsite by a licensed waste carrier, or transported to the approved site landfill for appropriate disposal</div>	<div>7,506,700N</div> <div>Schedule 1: Maps, Premises map, Figure 1 and Figure 2</div>	Compliance Report required by condition 2

2. Subject to condition 1, within 28 days of the completion of the works specified in Table 1, the licence approval holder must submit to the CEO an Environmental Compliance Report certified by a suitably qualified professional engineer that:
 - (a) lists and describes the completed works and any associated items of infrastructure and equipment listed in Table 1;
 - (b) certifies whether or not each item of infrastructure or component of infrastructure specified in Table 1 has been constructed with no material defects and to the requirements specified in Table 1;
 - (c) contains 'as constructed' plans for each item of infrastructure or component of infrastructure specified in Table 1; and
 - (d) is signed by a person authorised by the licence holder and contains the printed name and position of that person within the company.
3. Subject to condition 2, where an item of infrastructure or component of infrastructure has been certified as not being constructed, or does not comply with the corresponding requirements, or contains material defects, the licence holder must:
 - (a) correct the non-compliant or defective works, prior to re-certifying in accordance with condition 2(b); or
 - (b) provide to the CEO a description of, and explanation for, any departures from the requirements specified in Table 1 that do not require rectification and do not constitute a material defect along with the report required by condition 2.
4. The licence holder may only commence environmental commissioning of an item of infrastructure identified in condition 1 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 2 of this licence.
5. Any environmental commissioning activities undertaken for an item of infrastructure specified in Table 2 may only be carried out:
 - (a) in accordance with the corresponding commissioning requirements; and
 - (b) for the corresponding authorised commissioning duration.

Table 2: Environmental commissioning requirements

	Infrastructure	Commissioning requirements	Authorised commissioning duration
1.	WWTP3	Subject to completing the requirements of conditions 2 and 3	For a period not exceeding 90 calendar days
2.	Spray field	Subject to completing the requirements of conditions 2 and 3	For a period not exceeding 90 calendar days

6. The licence holder must operate the WWTP3 and spray field in accordance with the conditions of this licence following the completion of the commissioning period authorised in Table 2.

Discharges to land

7. The licence holder shall ensure that all effluent discharged consists only of treated wastewater.
8. The licence holder shall ensure that effluent is only discharged to the spray fields depicted in [Figure 2](#).

Wastewater treatment plant monitoring

9. The licence holder shall maintain, in accordance with the manufacturer's specifications, an accurate flow metering device that measures the cumulative volume of all effluent discharged from the WWTPs.
10. The licence holder shall record the cumulative volume of treated wastewater discharged for the purpose of irrigation. This data shall be included in the Annual Environmental Report in tabular form.
11. The licence holder shall ensure that water quality monitoring occurs during the operation of the WWTPs, such that water quality of the effluent is monitored at the frequency stated in column 2 of Table 3 for the parameters in column 1 of Table 3.

Table 3: Koodaideri Camp WWTP2 and WWTP3 water quality monitoring requirements

Column 1	Column 2	Column 3
Parameter	Frequency during operations of WWTP2 and WWTP3	Frequency for the WWTP3 during commissioning
Biochemical Oxygen Demand (mg/L)	Quarterly	Weekly
Total Suspended Solids (mg/L)	Quarterly	Weekly
pH (pH units) ¹	Quarterly	Weekly
Total Nitrogen (mg/L)	Quarterly	Weekly
Total Phosphorus (mg/L)	Quarterly	Weekly
<i>E.coli</i> (cfu/100mL)	Quarterly	Weekly

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

12. The licence holder shall conduct daily inspections of the WWTP2 and WWTP3 aboveground pipelines and the route following the placement of the underground pipeline, including the WWTP2 and WWTP3 compounds.
13. The licence holder shall ensure that:
 - (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1, unless indicated otherwise in the relevant table;
 - (b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;
 - (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 relevant table.
14. The licence holder shall ensure that:
 - (a) monthly monitoring is undertaken at least 15 days apart;
 - (b) quarterly monitoring is undertaken at least 45 days apart; and
 - (c) six monthly monitoring is undertaken at least 5 months apart.
15. The licence holder shall report on and discuss the results of the water quality monitoring required by condition 11.

Stormwater management

16. The licence holder shall ensure that the premises is drained such that contaminated stormwater is retained on the premise to allow treatment for sediment and total hydrocarbon prior to discharge off the premises.
17. The licence holder shall ensure that sedimentation basins are maintained at each point of discharge from the premises such that there is sufficient retention time within the basin to reduce suspended solids prior to discharge of waters offsite.

Spills of environmentally hazardous materials

18. The licence holder shall immediately recover, or remove and dispose of, spills of environmentally hazardous materials including fuel, oil, or other hydrocarbons, whether inside or outside an engineered containment system.
19. The licence holder shall ensure that all material used for the recovery, removal, and/or disposal of environmentally hazardous materials is stored in an impermeable container prior to disposal at an approximately authorised facility.

Putrescible landfill

20. The licence holder shall ensure that the tipping area of the putrescible landfill is not greater than:
 - (a) 30 metres in length; and
 - (b) 2 metres above ground level in height.
21. The licence holder shall ensure that:
 - (a) Waste is covered at least monthly;
 - (b) Waste in the tipping area of the landfill is covered with a dense (at least 200 millimeters), inert and incombustible material;
 - (c) Waste is covered totally, so that no waste is left exposed;
 - (d) Washed or windblown waste does not leave the premises; and
 - (e) Any washed or windblown waste away from the tipping area is collected and returned to the tipping area on a monthly basis.

- 22.** The licence holder shall ensure that when asbestos or clinical waste is disposed of to the landfill:
- (a) It is covered with a dense, inert, incombustible material to a depth of at least 1m as soon as practicable after disposal;
 - (b) It is recorded within 2 hours of disposal on a register held at the site showing where the asbestos and clinical waste is buried;
 - (c) The register is to include details that state:
 - (i) The date;
 - (ii) The name of person disposing of the waste and
 - (iii) confirmation that the waste has been disposed of in accordance with this licence;
 - (iv) Grid coordinates of the disposal location where more than 1 square metre of waste is buried so that the waste may be easily located; and
 - (d) Grid references entered in the landfill register are marked on a plan of the landfill.
- 23.** The licence holder shall ensure that there is no waste within:
- (a) 100 metres of any surface water body at the site; and
 - (b) 3 metres of the highest level of the water table aquifer at the landfill site.
- 24.** The licence holder shall manage stormwater on the landfill site so that:
- (a) It is diverted from areas of the site where there is waste; and
 - (b) Water that has come into contact with waste is to be diverted into a sump on the site, or otherwise retained on the site.

Reporting conditions

- 25.** The licence holder must submit to the CEO by 30 April in each year, after the end of each annual period, an Annual Environmental Report for that annual period, containing the monitoring results and data collected as a requirement of any condition of this licence.
- 26.** 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 30 April in each year, after the end of that annual period, an Annual Audit Compliance Report in the approved form.
- 27.** 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.
- 28.** 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) the works conducted in accordance with condition 1 of this licence;
 - (c) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
 - (d) monitoring programmes undertaken in accordance with conditions 11 and 15

- of this licence; and
 - (e) complaints received under condition 27 of this licence.
- 29.** The books specified under condition 28 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 4 have the meanings defined.

Table 4: 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
AS/NZS 5667	Means the most recent version and the relevant parts of the Australian and New Zealand series of guidance standards on Water Quality Sampling
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
cfu/100mL	Means colony forming units per 100 millilitres
Contaminated stormwater	Means stormwater runoff 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 <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.

Term	Definition
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 (WA)</i>
EP Regulations	<i>Environmental Protection Regulations 1987 (WA)</i>
HDPE	High density polyethylene
Landfill definitions	The document titled “Landfill Waste Classification and Waste Definitions 1996” published by the Chief Executive officer of the Department of Water and Environmental Regulation as amended from time to time
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	metre
mg/L	Means milligrams per litre
NATA	Means National Association of Testing Authorities
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) (Figure 1 and Figure 2 in Schedule 1: Maps to this licence.
prescribed premises	has the same meaning given to that term under the EP Act
Putrescible	has the meaning defined in the Landfill Definitions
Special Waste Type 1	has the meaning defined in the Landfill Definitions
Special Waste Type 2	has the meaning defined in the Landfill Definitions
Tipping area	Means the area of a landfill site where waste is currently being brought to the site is being deposited
waste	has the same meaning given to that term under the EP Act
WWTP	Means Wastewater Treatment Plant
WWTP2	Wastewater Treatment Plant 2 – the wastewater treatment plant

Term	Definition
	1200EP facility at the eastern end of the premises
WWTP3	Wastewater Treatment Plant 3 – the wastewater treatment plant 600EP facility to the west of WWTP2

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below

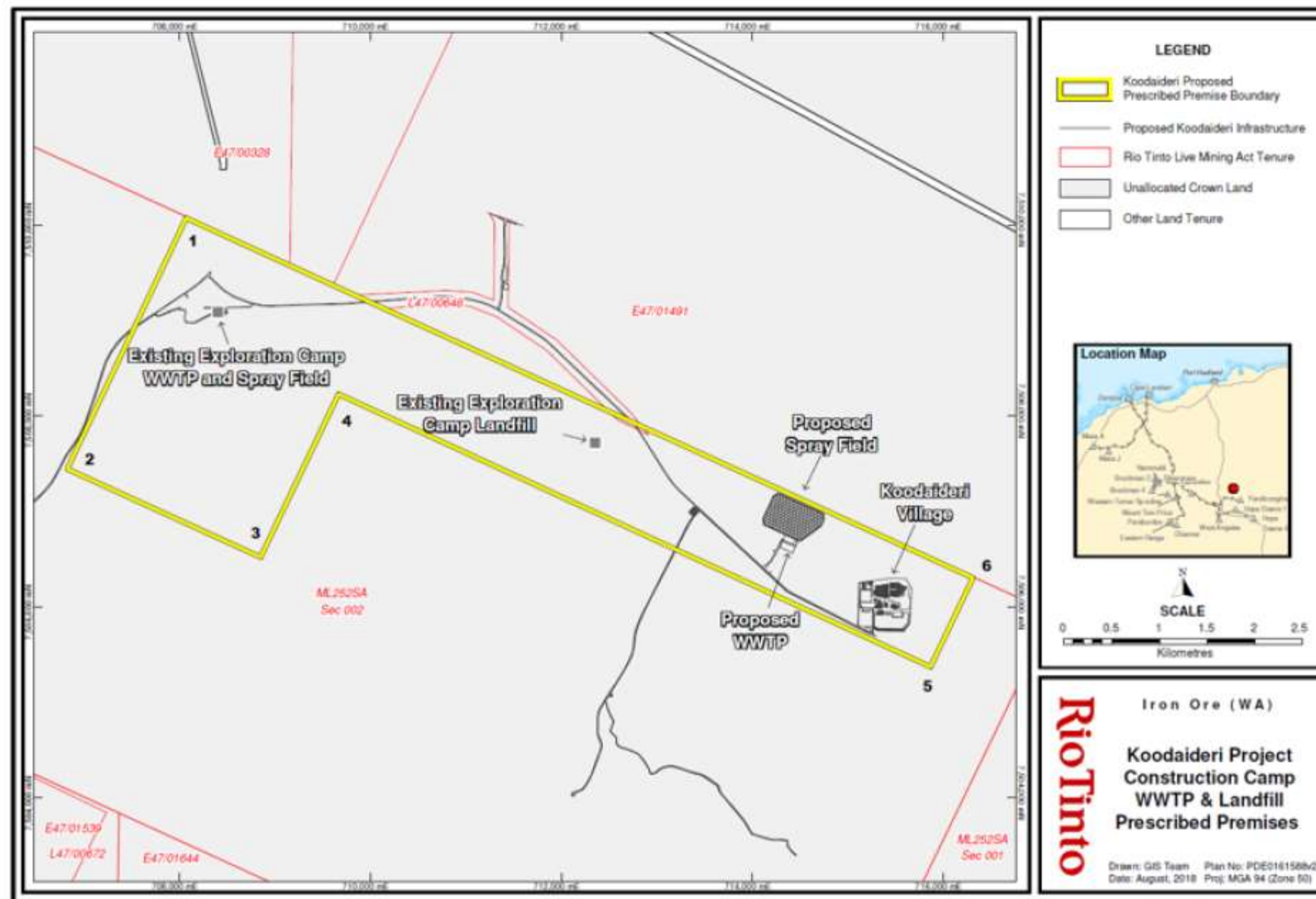


Figure 1: Map of the boundary of the prescribed premises

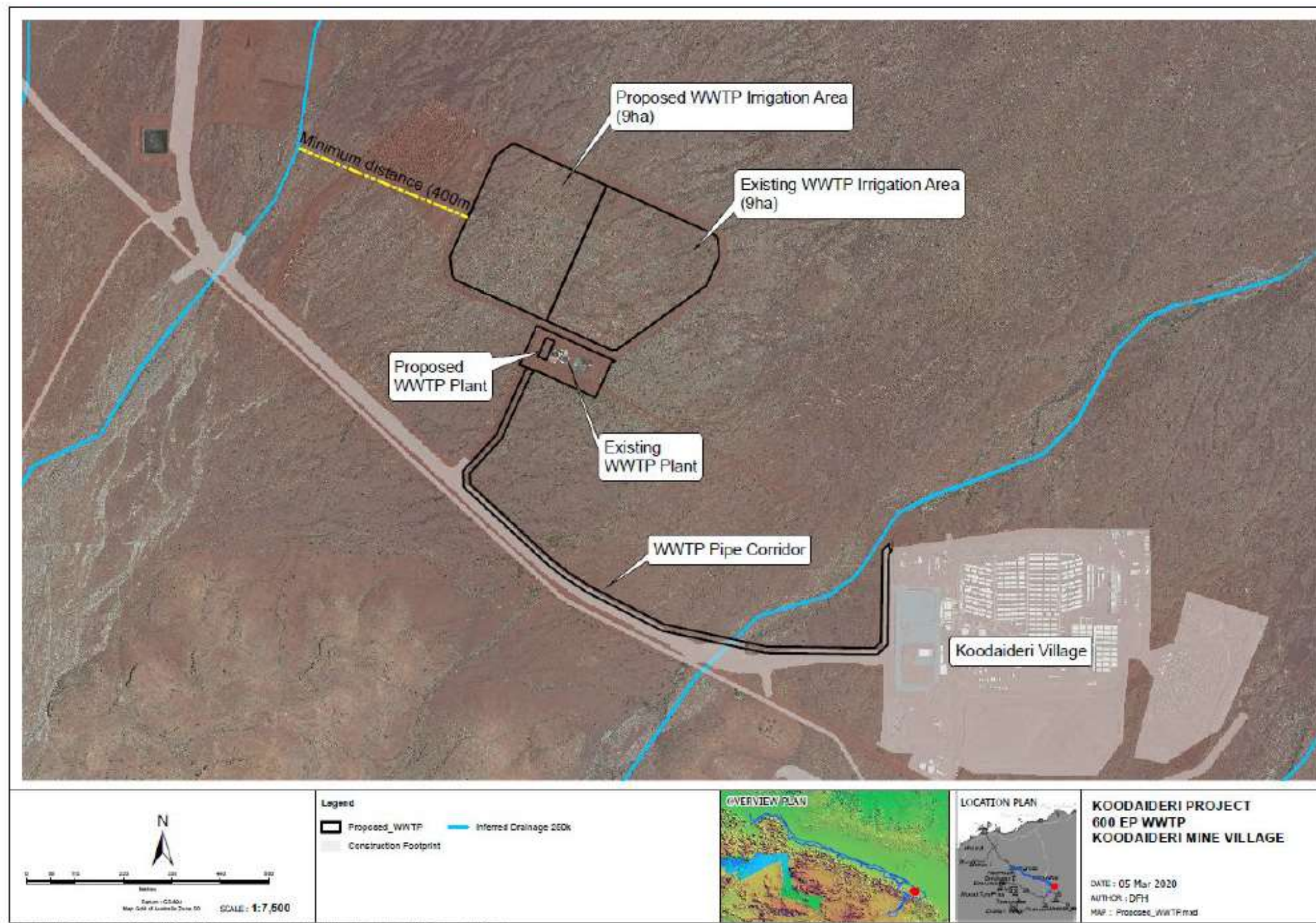


Figure 2: WWTPs and spray fields locations

Schedule 2: Premises boundary.

The premises boundary is defined by the coordinates in Table 5.

Table 5: Premises boundary coordinates (GDA94)

Prescribed Premises Corner	Easting	Northing
1	708,070	7,510,070
2	706,830	7,507,440
3	708,850	7,506,520
4	709,670	7,508,230
5	715,870	7,505,370
6	716,310	7,506,300