

Your ref L8833/2014/1
Our ref DER2014/001429

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Mr Rhys Houlihan Karara Mining Limited 216 St Georges Terrace Level, Level 8 London House, PERTH WA 6000

Dear Mr Houlihan

ENVIRONMENTAL PROTECTION ACT 1986: LICENCE GRANTED

Premises Hinge Iron Ore Project Crushing and Screening Plant Mining tenement M59/748 PERENJORI WA 6620 Licence Number: L8833/2014/1

A licence under the *Environmental Protection Act 1986* (the Act) has been granted for the above premises. The Department of Environment Regulation will advertise the issuing of this licence in the public notices section of *The West Australian* newspaper.

The licence includes attached conditions. Under section 58(1) of the Act, it is an offence to contravene a condition of a licence. This offence carries a penalty of up to \$125,000 and a daily penalty of up to \$25,000.

In accordance with section 102(1)(c) of the Act, you have 21 days to appeal the conditions of the licence. Under section 102(3)(a) of the Act, any other person may also appeal the conditions of the licence. To lodge an appeal contact the Office of the Appeals Convenor on 6467 5190 or by email at admin@appealsconvenor.wa.gov.au.

Where a licence is issued for more than one year it requires payment of an annual fee and will cease to have effect if the fee is unpaid. It is the occupier's responsibility to lodge a fee application and pay the annual fee in sufficient time to avoid incurring a late payment fee and for processing to be completed before the licence anniversary date.

If you have any queries regarding the above information, please contact Clint Joseph on 08 9964 0901.

Yours sincerely

Ed Schuller
Officer delegated under section 20
of the Environmental Protection Act 1986

Thursday, 25 September 2014



Licence

Environmental Protection Act 1986, Part V

Licensee: Karara Mining Limited

Licence: L8833/2014/1

Registered office: Level 8 London House

216 St Georges Terrace,

PERTH WA 6000

ACN: 070 871 831

Premises address: Hinge Iron Ore Project Crushing and Screening Plant

Mining Tenement M59/748

PERENJORI WA 6620 as depicted in Schedule 1

Issue date: Thursday, 25 September 2014

Commencement date: Monday, 29 September 2014

Expiry date: Saturday, 28 September 2019

Prescribed Premises Category

Schedule 1 of the Environmental Protection Regulations 1987

Category	Category description	Category production	Premises production
number		or design capacity	or design capacity
05	Processing or beneficiation of metallic or non-metallic ore: premises on which – (a) Metallic or non-metallic ore is crushed, ground, milled or otherwise processed; (b) Tailings from metallic or non-metallic ore are reprocessed; or (c) Tailings or residue from metallic or non-metallic ore are discharged into a containment cell or dam.	50 000 tonnes or more per annual period	Not more than 2 000 000 tonnes per annual period

Conditions

This Licence is subject to the conditions set out in the attached pages.

Officer delegated under section 20 of the Environmental Protection Act 1986

Environmental Protection Act 1986 Licence: L8833/2014/1

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Introduction

DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER works with the business owners, community, consultants, industry and other representatives to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This Licence is issued under Part V of the Act. Conditions contained within the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link: http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- Environmental Protection (Unauthorised Discharges) Regulations 2004 these Regulations make
 it an offence to discharge certain materials such as contaminated stormwater into the environment
 other than in the circumstances set out in the Regulations.
- Environmental Protection (Controlled Waste) Regulations 2004 these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- Environmental Protection (Noise) Regulations 1997 these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

The Hinge Iron Ore Project (HIOP) crushing and screening plant (Project) is located within the Mid-West Region of Western Australia. It is approximately 76 km north-east of the Perenjori town site and 20km north of the Karara Iron Ore Project (KIOP). HIOP lies within the Shire of Perenjori on tenements owned by Karara Mining Limited (KML). The prescribed premises is located on unallocated crown land managed for the purposes of conservation by the Department of Parks and Wildlife. The mine site area is considered isolated with the nearest residence, the Karara Homestead approximately 25km to the south. The HIOP located on tenement M59/748 is a satellite mining project incorporating an open-cut pit, waste dump and ancillary infrastructure. The Project will result in a land disturbance area of approximately 300 hectares (ha). HIOP is designed to produce approximately 4 million tonnes of hematite iron ore resource, mined at a rate of approximately 1–2 Mtpa. The life of the HIOP is approximately 2 years. Additional supporting facilities, such as the accommodation village, waste water treatment plant, and a landfill facility, will be provided from the existing approved KIOP.

Power Supply and Requirements

During operation of the prescribed premises, power will be generated by on-site diesel generators (approximately 1 mega Watt). No gas pipelines or electricity power lines are available near the site, making the use of diesel generators the most economically viable option.

Water supply

Water for the prescribed premises will be sourced from groundwater abstraction bores and in pit sumps. Dewatering of the aquifer will occur as the mine floor is expected to be below the static water level (pit depth is approximately 100 metres (m)) and depth of water table is approximately 50-60 m below ground level (mbgl)). All dewatered water from the HIOP pits shall be stored in lined turkey's nest and used for dust suppression purposes.

The main emissions from the premises will be dust. Licence conditions 2.6.1, 2.6.2 and 2.6.3 have been included in the licence to specify dust management measures that must be undertaken and to prohibit excessive generation of dust.

This Licence is for the operation of a new facility established under works approval W5612/2014/1

Instrument log			
Instrument	Issued	Description	
W5612/2014/1	23/06/2014	Works Approval	
L8833/2014/1	25/09/2014	Licence	

Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

END OF INTRODUCTION

Environmental Protection Act 1986 Licence: L8833/2014/1

File Number: DER2014/001429



Licence conditions

1 General

- 1.1 Interpretation
- 1.1.1 In the Licence, definitions from the Environmental Protection Act 1986 apply unless the contrary intention appears.
- 1.1.2 In the Licence, unless the contrary intention appears:

'AACR' means the Annual Audit Compliance Report;

'Act' means the Environmental Protection Act 1986;

'annual period' means the period from 1 October until 30 September in the following year;

'code of practice for the storage and handling of dangerous goods' means the document titled "Storage and handling of dangerous goods: Code of Practice" published by the Department of Mines and Petroleum, as amended from time to time;

'dangerous goods' has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Manager Licensing (Midwest)
Department of Environment Regulation
PO Box 72
GERALDTON WA 6531

Telephone:

(08) 9964 0901

Facsimile:

(08) 9921 5713

Email:

midwest@der.wa.gov.au;

'environmentally hazardous material' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm;

'fugitive emissions' means all emissions not arising from point sources;

'KML dust management plan' means KML's Dust Management and Monitoring CORP-EN-PLN-1005 amended from time to time;

'Licence' means this licence numbered L8833/2014/1 and issued under the Environmental Protection Act 1986;

'Licensee' means the person or organisation named as Licensee on page 1 of the Licence;

'placard quantity' has the meaning defined in the Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007; and

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence.



- 1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.
- 1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence

1.2 General conditions

- 1.2.1 Nothing in this Licence shall be taken to authorise any emission that is not mentioned in this licence, where the emission amounts to:
 - (a) pollution;
 - (b) unreasonable emission;
 - (c) discharge of waste in circumstances likely to cause pollution; or
 - (d) being contrary to any written law.
- 1.2.2 The Licensee shall maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
- 1.2.3 The Licensee, except where storage is prescribed in section 1.3, shall ensure that environmentally hazardous materials are stored in accordance with the code of practice for the storage and handling of dangerous goods.
- 1.2.4 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.
- 1.2.5 The Licensee shall:
 - implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
 - (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises. 1

Note1: The Environmental Protection (Unauthorised Discharges) Regulations 2004 make it an offence to discharge certain materials into the environment.

1.3 Premises operation

There are no specified conditions relating to Premises operation in this section.

2 Emissions

2.1 General

2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit target specified in any part of section 2 of this Licence.

2.2 Point source emissions to air

There are no specified conditions relating to point source emissions to air in this section.

2.3 Point source emissions to surface water

There are no specified conditions relating to point source emissions to surface water in this section.

2.4 Point source emissions to groundwater

There are no specified conditions relating to point source emissions to groundwater in this section.

2.5 Emissions to land

There are no specified conditions relating to emissions to land in this section.

2.6 Fugitive emissions

- 2.6.1 The Licensee shall use all reasonable and practical measures to prevent and where that is not practicable to minimise dust emissions from the Premises.
- 2.6.2 The Licensee shall ensure that no visible dust generated by the activities on the Premises crosses the boundary of the Premises.
- 2.6.3 The Licensee shall implement and adhere to the KML Dust Management Plan.

2.7 Odour

There are no specified conditions relating to odour in this section.

2.8 Noise

There are no specified conditions relating to noise in this section.

3 Monitoring

There are no specified conditions relating to monitoring in this section.

4 Improvements

There are no specified conditions relating to improvements in this section.



Information 5

5.1 Records

All information and records required by the Licence shall: 5.1.1

be legible;

- (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- except for records listed in 5.1.1(d) be retained for at least 6 years from the date the (c) records were made or until the expiry of the Licence or any subsequent licence; and
- for those following records, be retained until the expiry of the Licence and any (d) subsequent licence:

off-site environmental effects; or (i)

- matters which affect the condition of the land or waters. (ii)
- The Licensee shall ensure that: 5.1.2
 - any person left in charge of the Premises is aware of the conditions of the Licence and (a) has access at all times to the Licence or copies thereof; and
 - any person who performs tasks on the Premises is informed of all of the conditions of (b) the Licence that relate to the tasks which that person is performing.
- The Licensee shall complete an Annual Audit Compliance Report indicating the extent to 5.1.3 which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.
- The Licensee shall implement a complaints management system that as a minimum records 5.1.4 the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

5.2 Reporting

The Licensee shall submit to the CEO an Annual Environmental Report within 28 calendar 5.2.1 days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Condition or table (if relevant)	Parameter	Format or form	
	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the annual period and any action taken	None specified	
5.1.3	Compliance	AACR	
5.1.4	Complaints summary	None specified	
	Measures taken to suppress dust		

Note 1: Forms are in Schedule 2

Environmental Protection Act 1986

Licence: L8833/2014/1 File Number: DER2014/001429



5.3 Notification

5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable or within 72 hours after any incident which has	N1
	Any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	caused, is causing or may cause pollution, has occurred. Part B: As soon as practicable.	¢

Note 1: Notification requirements in the licence shall not negate the requirement to comply with s72 of the Act

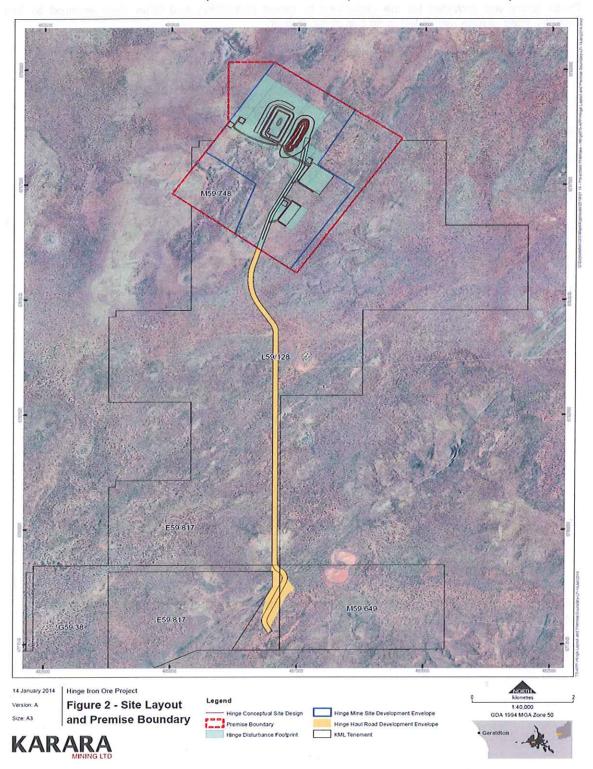
Note 2: Forms are in Schedule 2.



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The red line depicts the Premises boundary.





Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by this licence. They can be requested in an electronic format.

Copies of the original monitoring reports must also be submitted.

Licence:

L8833/2014/1

Licensee:

Karara Mining Limited

Form:

AACR

Period :

Name:

Annual audit compliance report

Annual audit compliance report

Section A: Statement of compliance with licence conditions

Were all conditions of licence complied with within the reporting period?			
Yes		Initial Sections A & B, then proceed to Section C	
No		Initial Section A, then proceed to Section B	

Each page must be initialled by the person(s) who signs Section C of this annual audit compliance report (AACR).

Initial:

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Section B: Details of non-compliance with licence condition

a) Licence condition not complied with?	
Date(s) and time(s) the non compliance occurred, if applicable	9?
c) Was this non compliance reported to DER?	
□ Yes, and □ Reported to DER verbally Date	□ No
☐ Reported to DER in writing Date	i .
d) Has DER taken, or finalised any action in relation to the non	compliance?
The speciments and the street of the speciment of a street of the speciment.	
e) Summary of particulars of non compliance, and what was the	e environmental impact?
) If relevant, the precise location where the non compliance oc (attach map or diagram)	curred
g) Cause of non compliance	
resources project to appropriate the second section of the section of	agains gage qui e
n) Action taken or that will be taken to mitigate any adverse effe	
Action taken or that will be taken to prevent recurrence of the	non compliance
intag = res	12 5 1 do 1 1 5 5 1 1 5 5
ease use a separate page for each licence condition that was initialled by the person(s) who signs Section C of this AACR	not complied with. Each page must
itial:	



Section C: Signature and certification

This AACR may only be signed by a person(s) with legal authority to sign it as defined below. Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The AACR must be signed and certified:
		by the individual licence holder, or
an individual		by a person approved in writing by the Chief Executive Officer (CEO) of DER to sign on the Licensee's behalf.
41		by affixing the common seal of the Licensee in accordance with the Corporations Act 2001; or
		by two directors of the Licensee; or
		by a director and a company secretary of the Licensee, or
a corporation		if the Licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or
		by the principal executive officer of the Licensee; or
		by a person with authority to sign on the Licensee's behalf who is approved in writing by the CEO of DER.
A public authority		by the principal executive officer of the Licensee; or
(other than a local government)		by a person with authority to sign on the Licensee's behalf who is approved in writing by the CEO of DER.
a local government		by the CEO of the Licensee; or
772 		by affixing the seal of the local government.
t is an offence under sectior nformation on this form that to n maximum penalty of \$50,000	their kn	the Environmental Protection Act 1986 for a person to give owledge is false or misleading in a material particular. There is advividual or body corporate.
We declare that the informate articular.	tion in th	is AACR is correct and not false or misleading in a material
Signature:	3.7	Signature:
lame: (printed)		Name: (printed)
Position:	Y.,	Position:
note: / /		Date

Seal (if signing under seal)



Licence:

L8833/2014/1

Licensee: Karara Mining Limited

Form:

N1

Time and date of the detection

Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A	
Licence Number	pt a to 1 month of the 2-1-2mm
Name of operator	
Location of Premises	

Notification requirements for the breach of a limit					
To be notified as soon as practicable and no later than 5PM of the next working day					
Emission point reference/ source					
Parameter(s)					
Limit					
Measured value	4.6-04.5				
Date and time of monitoring					
Measures taken, or intended to					
be taken, to stop the emission	λ				

Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution		
To be notified as soon as practicable and no later than 5PM of the next working day		
Date and time of event		
Reference or description of the		
location of the event	8	
Description of where any release	,	
into the environment took place	, J.	
Substances potentially released		
Best estimate of the quantity or		
rate of release of substances		
Measures taken , or intended to		
be taken, to stop any emission		
Description of the failure or	4 8	
accident		

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Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
The state of the s	The state of the s
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
	5 To 40
Measures taken, or intended to be taken, to rectify,	Year March a refer
limit or prevent any pollution of the environment	Property and the second of the
which has been or may be caused by the emission	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The dates of any unauthorised emissions from the installation in the preceding 24 months.	
	and any programmer in a result programme.
Name	
Post	
Signature on behalf of	
Karara Mining Limited	to the figure by the sign of the first
	r i e e prima , est du
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent:

Karara Mining Limited

Licence:

L8833/2014/1

Registered office:

Karara Mining Limited

216 St Georges Terrace, Level 8 London House

PERTH WA 6000

ACN:

070 871 831

Premises address:

Hinge Iron Ore Project Crushing and Screening Plant

Mining tenement M59/748 PERENJORI WA 6620

Issue date:

Thursday, 25 September 2014

Commencement date:

Monday, 29 September 2014

Expiry date:

Saturday, 28 September 2019

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER) has decided to issue a works approval. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by:

Clint Joseph

Licensing Officer

Decision Document authorised by:

Steve Checker Manager Licensing



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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application for a works approval or licence, and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



2 Administrative summary

Administrative details				
Application type				ent
	Category	number(s)	Assessed design capacity
Activities that cause the premises to become prescribed premises	5			2 million tonnes per annum (Mtpa)
		1.00		Printed and the first of the fi
Application verified	Date: 17/	02/2014		
Application fee paid	Date: 06/	03/2014		
Works Approval has been complied with	Yes⊠	No	N/A	
Compliance Certificate received	Yes⊠	No□	N/A	
Commercial-in-confidence claim	Yes□	No⊠		S Magazi Arradia 3
Commercial-in-confidence claim outcome				
Is the proposal a Major Resource Project?	Yes⊠	No		egia i res toi
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the Environmental Protection Act 1986?	Yes⊠	No□	Mana	rral decision No: 1992 aged under Part V □ ssed under Part IV ⊠
				terial statement No: 968
Is the proposal subject to Ministerial Conditions?	Yes⊠	No□		Report No: 1505
Does the proposal involve a discharge of waste	Yes□	No⊠		٠
into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Departme	ent of Wate	er cons	ulted Yes 🗌 No 🛛
Is the Premises within an Environmental Protection If Yes include details of which EPP(s) here.	Policy (EF	PP) Area `	Yes□	No⊠
The service of the service proposed proposed proposed proposed services (Service Service Servi		ĮII		
Is the Premises subject to any EPP requirements?	Yes□	No⊠	21 -	
If Yes, include details here, eg Site is subject to SC	2 requirem	ents of Kw	inana I	=PP.



3 Executive summary of proposal and assessment

The Hinge Iron Ore Project (HIOP) crushing and screening plant (Project) is located within the Mid-West Region of Western Australia. It is approximately 76 km north-east of the Perenjori town site and 20km north of the Karara Iron Ore Project (KIOP). HIOP lies within the Shire of Perenjori on tenements owned by Karara Mining Limited (KML). The prescribed premises is located on unallocated crown land managed for the purposes of conservation by the Department of Parks and Wildlife. The mine site area is considered isolated with the nearest residence, the Karara Homestead approximately 25km to the south. The HIOP located on tenement M59/748 is a satellite mining project incorporating an open-cut pit, waste dump and ancillary infrastructure. The Project will result in a land disturbance area of approximately 300 hectares (ha). HIOP is designed to produce approximately 4 million tonnes of hematite iron ore resource, mined at a rate of approximately 1–2 Mtpa. The life of the HIOP is approximately 2 years. Additional supporting facilities, such as the accommodation village, waste water treatment plant, and a landfill facility, will be provided from the existing approved KIOP.

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Water supply

Water for the prescribed premises will be sourced from groundwater abstraction bores and in pit sumps. Dewatering of the aquifer will occur as the mine floor is expected to be below the static water level (pit depth is approximately 100 metres (m)) and depth of water table is approximately 50-60 m below ground level (mbgl)). All dewatered water from the HIOP pits shall be stored in lined turkey's nest and used for dust suppression purposes. KML are currently undergoing an approval process with the Department of Water to obtain an extraction licence for project water supplies.

The main emissions from the premises will be dust. Licence conditions 2.6.1, 2.6.2 and 2.6.3 have been included in the licence to require dust management measures and prevent excessive dust emissions.



Decision table 4

Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are All applications are assessed in line with the Environmental Protection Act 1986, the Environmental Protection Regulations 1987 and DER's Operational detailed in the decision document.

DECISION TABLE	E			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
	W 1.2.2 L1.2.3 and L1.2.5	oso	Operation Emission Description Emission: Stormwater runoff contaminated with hydrocarbons. Impact: Contamination of surrounding land and surface water drainage systems. Potential impacts on the ecology of fauna, flora and surface water. Controls: The proponent proposes to have appropriately sited stormwater.	Application supporting documentation.
General			diversion channels to ensure that the prescribed premises footprint does not contribute to the potential impact of any downstream receptors. Any stormwater that is potentially contaminated with hydrocarbons will be passed through a separator to remove hydrocarbons. The treated water will then be transferred to an evaporation pond or used for dust suppression purposes or removed via a controlled waste carrier.	
	ř		Three self-bunded 55,000L diesel tanks will be installed within the mining support area to provide diesel to mobile and haulage fleets, plus the diesel generators providing power to the site and the crushing and screening facility. The diesel tanks will incorporate a delivery bowser and a bunded, lined earthen refuelling pad or pre-manufactured portable refuelling pad providing spill containment.	e H g
		î	Risk Assessment Consequence: Minor Likelihood: Possible Risk Rating : Moderate	

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	î.		Environmental	Protection Act 1986. Environmental Protection	(Unauthorised Discharges) Regulations, 2004.	
Regulatory controls OSC L1.2.3 and L1.2.5 relating to the storage of hazardous substances and stormwater management is included in the operating licence to prevent any discharge of hazardous substances to the environment.	Residual Risk Consequence: Minor Likelihood: Unlikely Risk Rating: Low	Operation No specified conditions relating to the premises operation will be included in the works approval or licence.	No specified conditions relating to emissions are included in the works approval or licence.	Operation Emission Description There will be no point source emissions to air during the operation of the plant. No specified conditions relating to air emissions are proposed for this project.	Operation Emission Description There will be no point source emissions surface water. There are no lakes, rivers or other significant water bodies within the project area. No specified conditions relating to emissions to surface water are proposed for this project.	Operation Emission Description There will be no point source emissions to groundwater during the operation of the plant.
· ·		N/A	N/A	N/A	N/A	N/A
-		W- no conditions L- no conditions	W- no conditions L- no conditions	W- no conditions L- no conditions	W- no conditions L- no conditions	W- no conditions L- no conditions
		Premises Operations	Emissions general	Point source emissions to air including monitoring	Point source emissions to surface water including monitoring	Point source emissions to groundwater including monitoring

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	W. DO COLLINO	N/A	200000	
Emissions to	I - no conditions		Emission Description	
land including monitoring			No significant emissions to land are expected. Minor amounts of incidental wastes	*
			specified conditions relating to emissions to land are proposed for this project.	AUG
	W- no conditions	OSC	Operation Emission Description	
	and L 2.6.3	NSC	Emission Description Emission: Dust emissions can be generated from the mining of iron ore, materials	
			handling, ore stockpiles, operation of the crushing and screening plant, transport of	
-	*		ore on the conveyors, movement of vehicles and open areas.	Application
			Impact: Dust emissions can be harmful to human health and the environment.	documentation
			Elevated total suspended particulates (TSP) can impact the ambient	documentation.
			environmental quality and can smother vegetation.	Environmental
			Controls: To manage and control rugitive dust emissions from the prescribed premises. Karara has committed to the following infrastructure and management	Protection Act
_			premises, regardinas committee to the following importante and management	1986.
			 Dedicated water trucks and sprinklers will be used for all onsite dust 	
			suppression;	
			 Dust suppression sprinklers will be positioned at the primary crusher, 	
Fugitive			dump bin, lump product stockpile and fines product stockpile;	
emissions			 All shutes will have covers; 	
			 Dust management will be in line with KML's Dust Management and 	
			Monitoring CORP-EN-PLN-1005;	
		8	 Surface stabilization methods such as sealing, sheeting shielding and 	
			chemical treatment; and	
			 Dust deposition sampling each month at designated sites surrounding the 	
			Project to assess potential accumulation of dust on vegetation.	
		P	Risk Assessment	
			Consequence: Minor	
,			Likelihood: Possible	t
			Risk Rating: Moderate	
	10		Regulatory Controls	
	Ŷ.		OSC L - 2.6.1, 2.6.2 and NSC 2.6.3 are included in the licence to ensure adequate	
			management of fugitive dust emissions.	

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			Residual Risk Consequence: Insignificant Likelihood: Possible Risk Rating: Low	
Odour	W- no conditions L- no conditions	N/A	There are no significant odour emissions expected from this project.	N/A
Noise	W- no conditions L- no conditions	Y Y	Deparation Emission Description Emission Description Emission Poscription Emission Poscription Emission Project Insert Inser	Application supporting documentation Environmental Protection (Noise) Regulations 1987. Environmental Protection Act 1986.
			Residual Risk Consequence: Insignificant Likelihood: Unlikely Risk Rating: Low	
Monitoring general	W - no conditions L - no conditions	N/A	No specified conditions relating to monitoring are required to be added to the works approval or licence.	N/A

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Monitoring of inputs and outputs	W - no conditions L - no conditions	A/N	No specified conditions relating to monitoring of inputs and outputs are required to N/A be added to the works approval or licence.
Process monitoring	W - no conditions L - no conditions	N/A	No specified conditions relating to process monitoring are required to be added to N/A the works approval or licence.
Ambient quality monitoring	W - no conditions L - no conditions	N/A	No specified conditions relating to ambient quality monitoring are required to be added to the works approval or licence.
Meteorological monitoring	W - no conditions L - no condition	N/A	No specified conditions relating to meteorological monitoring are required to be added to the works approval or licence.
Improvements	W - no conditions L - no conditions	N/A	No specified conditions relating to improvements are required to be added to the works approval or licence.
Information	W - no conditions L - no conditions	N/A	Standard condition for all information required by the Licensee has been added to N/A the licence
Licence Duration	N/A	N/A	This licence is issued for five years as the crushing and screening process will have minimal impact on the environment.

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Advertisement and consultation table

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Comments received/Notes	West No comments received	f draft Minor comment received
Event	1/09/2014 Application advertised in West Australian (or other relevant newspaper)	23/09/2014 Proponent sent a copy of draft instrument

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Appendix A RISK ASSESSMENT MATRIX

Note: These matrix are taken from the Corporate Policy Statement No.7 – Operational Risk Management

Likelihood			Consequence		
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High