



Licence

Environmental Protection Act 1986, Part V

Licensee: CITIC Pacific Mining Management Pty Ltd

Licence: L8659/2012/2

Registered office: 45 St Georges Terrace
PERTH WA 6000

ACN: 119 578 371

Premises address: Sino Iron Project Transshipment Facility
Within the following coordinates:
Point 1: 116° 4' 59.88" E, 20° 39' 50.39" S
Point 2: 116° 15' 0.00" E, 20° 35' 52.55" S
Point 3: 116° 15' 0.00" E, 20° 45' 0.00" S
Point 4: 116° 14' 0.00" E, 20° 45' 0.00" S
Point 5: 116° 14' 0.00" E, 20° 45' 41.37" S
Point 6: 116° 9' 31.34" E, 20° 47' 44.48" S
Point 7: 116° 9' 32.93" E, 20° 42' 56.89" S
Point 8: 116° 5' 34.95" E, 20° 44' 30.00" S
Point 9: 116° 4' 59.88" E, 20° 42' 59.76" S
MARDIE WA 6714
as depicted in Schedule 1

Issue date: Thursday, 12 November 2015

Commencement date: Thursday, 26 November 2015

Expiry date: Wednesday, 25 November 2020

Prescribed premises category

Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
58	Bulk material loading or unloading: premises on which clinker, coal, ore, ore concentrate or any other bulk granular material (other than salt) is loading onto or unloaded from vessels by an open material loading system	100 tonnes or more per day	152,000 tonnes per day (76,000 tonnes per day, per facility)
73	Bulk storage of chemicals, etc: premises on which acids, alkalis or chemicals that – (a) contain at least one carbon to carbon bond; and (b) are liquid at STP (standard temperature and pressure), are stored	1,000 cubic metres in aggregate	4,588 cubic metres in aggregate



Conditions

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

Date signed: 12 November 2015

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Alana Kidd

Manager Licensing – Resource Industries
Officer delegated under section 20
of the *Environmental Protection Act 1986*



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Introduction

This Introduction is not part of the Licence conditions.

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 regulates 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

CITIC Pacific Mining Management Pty Ltd (the Licensee) is an Australian company that is wholly owned by CITIC Pacific Limited. The Licensee was established to manage the development of the George Palmer Deposit associated processing and export facilities, on behalf of the Sino Iron and Korean Steel projects (the Sino Iron Project). The iron ore mine, processing and export facility is located near Cape Preston approximately 80 kilometres (km) south-west of Karratha in the Pilbara region of Western Australia.

The *Iron Ore Processing (Mineralogy Pty Ltd) Agreement Act 2002* (IOPAA) is an agreement between the Western Australian Government, Mineralogy and six subsidiary companies. In March 2006, CITIC Pacific Limited purchased mining rights for the George Palmer Ore body at Cape Preston from Mineralogy, therefore, becoming a proponent to the IOPAA. This was through the acquisition of the Sino Iron Project, allowing a combined 2 billion tonnes of magnetite iron ore concentrate over a mine life of 30 years within mining leases M08/123, M08/124 and M08/125. As the holder of the mining tenements and proponent of the IOPAA, Mineralogy retains ultimate liability for the mining tenements.

The Transshipment Facility (two transshipment vessels) operate within the Cape Preston Port Boundary, approximately 20 km offshore within State waters as defined under commonwealth legislation, *Coastal Waters (State Power) Act 1989* and the *Seas and Submerged Land Act 1973*. The Transshipment Facility was constructed in China and sailed to Cape Preston. Magnetite concentrate produced from the Sino Iron Project is loaded from barges by the Transshipment Facility to an Ocean Going Vessel (OGV) within a designated area of the Cape Preston Port Authority Area at a nominated rate of approximately 76,000 tonnes per day per transhipper. The bulk loading system for each transhipper requires the storage of 2,294.16 cubic metres (m³) of marine fuel oil on board for power and maintenance.

The Transshipment Anchorage Area (TAA) designated for mooring and loading is approximately 16 hectares (ha) in area. There are 16 anchorage points available to the OGV and transshippers. The exact mooring is selected by the OGV, the transhipper then navigates to the OGV to load product and the OGV transports the product overseas.

This Licence is the successor to licence L8659/2012/1 and has been converted to the new format licence template.

The licences and works approvals issued for the Premises since 22/11/2012 are:



Instrument log		
Instrument	Issued	Description
L8659/2012/1	22/11/2012	New licence for the Transshipment Facility (category 58) and bulk storage of hydrocarbons (category 73)
L8659/2012/1	7/02/2013	Licence amendment to allow temporary loading direct to the ship from the concentrate barges, utilising the ships self loading equipment
L8659/2012/1	11/07/2013	Licence amendment to extend the prescribed premises boundary to access anchorage points closer to Cape Preston
L8659/2012/2	12/11/2015	Licence reissue and conversion to new format licence template

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



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 For the purposes of this Licence, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986*;

'annual period' means the inclusive period from 1 July until 30 June in the following year;

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

'CEO' for the purpose of correspondence means;

Chief Executive Officer
Department Administering the Environmental Protection Act 1986
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info@der.wa.gov.au;

'Licence' means this Licence numbered L8659/2012/2 and issued under the Act;

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

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

'Schedule 1' means Schedule 1 of this Licence unless otherwise stated;

'Schedule 2' means Schedule 2 of this Licence unless otherwise stated; and

'Transhipment Facility' means the transhipper vessels MAG Dragon I and MAG Dragon II (or similar/comparable transhipper vessels including transhipper shuttle vessels) and concentrate barges.

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.

1.1.5 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the 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 General conditions

- 1.2.1 The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
- 1.2.2 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.3 Premises operation

- 1.3.1 The Licensee shall ensure that the maximum throughput for the Transshipment Facility does not exceed 152,000 tonnes per day.
- 1.3.2 The Licensee shall ensure that the bulk storage of chemicals on the Transshipment Facility does not exceed 4,588 cubic metres in aggregate.
- 1.3.3 The Licensee shall minimise spillage of concentrate material entering the marine environment during unloading and loading operations from the Transshipment Facility.
- 1.3.4 The Licensee shall ensure that waste material is only stored within vessels or compounds provided with the infrastructure detailed in Table 1.3.1.

Table 1.3.1: Containment infrastructure

Vessel or compound	Material	Requirements
Sewage tank	Treated sewage	Treated sewage to be stored in a dedicated 86 kilolitre, double-skinned sewage tank in the event the on-board sewage treatment system is inoperable or not operating to the manufacturer's specification, prior to disposal on-shore to a licensed facility

2 Information

2.1 Records

- 2.1.1 All information and records required by the Licence shall:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) except for records listed in 2.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
 - (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.
- 2.1.2 The Licensee shall ensure that:
- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
 - (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.
- 2.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to 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.



- 2.1.4 The Licensee shall implement a complaints management system that as a minimum records 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.

2.2 Reporting

- 2.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 120 calendar days after the end of the annual period. The report shall contain the information listed in Table 2.2.1 in the format or form specified in that table.

Table 2.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
1.3.1	Calculated daily material loading or unloading throughput for the Transshipment Facility	None specified
2.1.3	Compliance	Annual Audit Compliance Report (AACR)
2.1.4	Complaints summary	None specified

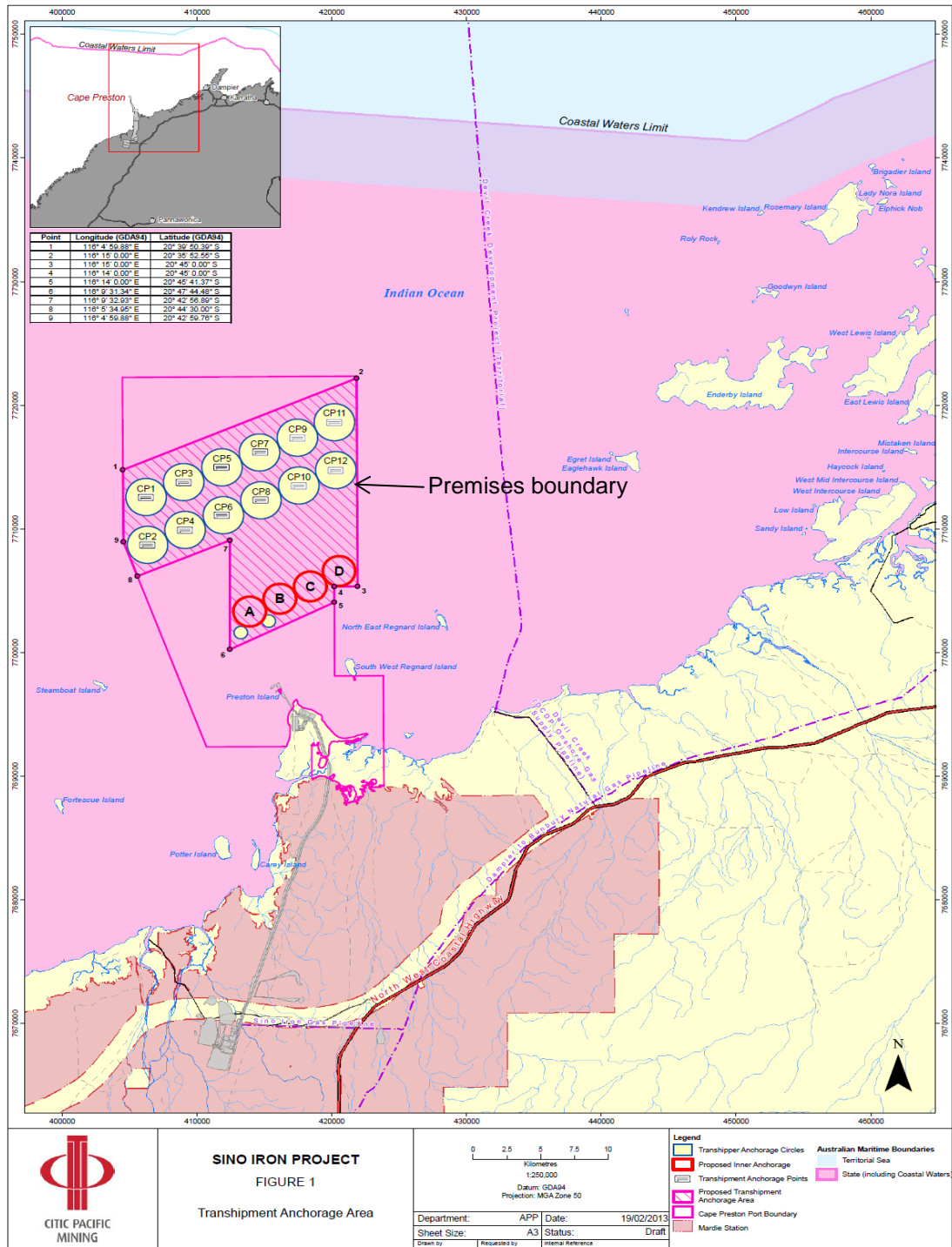
Note 1: Forms are in Schedule 2



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The pink lined area depicts the Premises boundary.





Schedule 2: Reporting & notification forms

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

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A

LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)

Yes ☐ Please proceed to Section C

No ☐ Please 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:



SECTION B

DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each Licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing Date _____	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) must only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out 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 Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	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 Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or 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 Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	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 Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.



I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____

SEAL (if signing under seal)

SIGNATURE: _____

NAME:
(printed) _____

POSITION: _____

DATE: ____/____/____



Decision Document

Environmental Protection Act 1986, Part V

Proponent: CITIC Pacific Mining Management Pty Ltd

Licence: L8659/2012/2

Registered office: 45 St Georges Terrace
PERTH WA 6000

ACN: 119 578 371

Premises address: Sino Iron Transshipment Facility
Within the following coordinates:
Point 1: 116° 4' 59.88" E, 20° 39' 50.39" S
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MARDIE WA 6714

Issue date: Thursday, 12 November 2015

Commencement date: Thursday, 26 November 2015

Expiry date: Wednesday, 25 November 2020

Decision

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

Decision Document prepared by: Sonya Poor
Licensing Officer

Decision Document authorised by: Alana Kidd
Delegated Officer



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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application 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.



2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/> New Licence <input checked="" type="checkbox"/> Licence amendment <input type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	58	152,000 tonnes per day (76,000 tonnes per day, per facility)
	73	4,588 cubic metres in aggregate
Application verified	Date: 10/09/2015	
Application fee paid	Date: 13/10/2015	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome	N/A	
Is the proposal a Major Resource Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input checked="" type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 635 and 822 EPA Report No:1056 and 1343
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.		



3 Executive summary of proposal and assessment

CITIC Pacific Mining Management Pty Ltd (the Licensee) is an Australian company that is wholly owned by CITIC Pacific Limited. The Licensee was established to manage the development of the George Palmer Deposit associated processing and export facilities, on behalf of the Sino Iron and Korean Steel projects (the Sino Iron Project). The iron ore mine, processing and export facility is located near Cape Preston approximately 80 kilometres (km) south-west of Karratha in the Pilbara region of Western Australia.

The *Iron Ore Processing (Mineralogy Pty Ltd) Agreement Act 2002* (IOPAA) is an agreement between the Western Australian Government, Mineralogy and six subsidiary companies. In March 2006, CITIC Pacific Limited purchased mining rights for the George Palmer Ore body at Cape Preston from Mineralogy, therefore, becoming a proponent to the IOPAA. This was through the acquisition of the Sino Iron Project, allowing a combined 2 billion tonnes of magnetite iron ore concentrate over a mine life of 30 years within mining leases M08/123, M08/124 and M08/125. As the holder of the mining tenements and proponent of the IOPAA, Mineralogy retains ultimate liability for the mining tenements.

The Transshipment Facility (two transshipment vessels) operate within the Cape Preston Port Boundary, approximately 20 km offshore within State waters as defined under commonwealth legislation, *Coastal Waters (State Power) Act 1989* and the *Seas and Submerged Land Act 1973*. The Transshipment Facility was constructed in China and sailed to Cape Preston. Magnetite concentrate produced from the Sino Iron Project is loaded from barges by the Transshipment Facility to an Ocean Going Vessel (OGV) within a designated area of the Cape Preston Port Authority Area at a nominated rate of approximately 76,000 tonnes per day per transhipper. The bulk loading system for each transhipper requires the storage of 2,294.16 cubic metres (m³) of marine fuel oil on board for power and maintenance.

The Transshipment Anchorage Area (TAA) designated for mooring and loading is approximately 16 hectares (ha) in area. There are 16 anchorage points available to the OGV and transshippers. The exact mooring is selected by the OGV, the transhipper then navigates to the OGV to load product and the OGV transports the product overseas.

The main features of each transhipper includes:

- Overall length of 131.8 m;
- Beam of 28.00 m;
- Draft of 3.5 m;
- Deck loading of 5 tonnes per square metre (m²);
- Complement of 46 berths;
- Propulsion of 2 x 637 kilowatt (kW) thruster engines;
- Diesel electric capacity of 4 x 1257 kW engines;
- Maximum power of 2,214 kW;
- Two cranes servicing two 10.5 m³ grabs;
- Conveying system with 5 dust collectors;
- Wastewater Treatment of 4.2 m³ per day;
- Reverse Osmosis (RO) plant: 1,467 kilolitre (kL) tank holding capacity; and
- 7 Ballast Water Tanks providing 4,255.96 m³ capacity.

This licence is the successor to licence L8659/2012/1. Where conditions have been added or removed from the existing licence these have been justified in Section 4.



4 Decision table

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

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	L1.2.1 and L1.2.2.	<p>Previous conditions 6 has been removed. The storage of environmentally hazardous materials can be adequately regulated by the <i>Dangerous Goods Safety Act 2004</i> and associated Regulations.</p> <p>Previous conditions 1 and 7 are now covered under conditions L1.2.1 and L1.2.2.</p>	<p><i>Dangerous Goods Safety Act 2004.</i></p> <p><i>Dangerous Goods Safety (Storage and Handling of Non-Explosives) Regulations 2007.</i></p> <p>Australian Standard 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.</p> <p>Code of Practice for the Storage and handling of dangerous goods.</p>
Premises operation	L1.3.1 – L1.3.4.	<p>Previous condition 2 is now covered by condition L1.3.3.</p> <p>Process limits for both the bulk loading, unloading and storage of chemicals have been</p>	CITIC Pacific Mining



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>included for the Transshipment Facility through conditions L1.3.1 and L1.3.2.</p> <p><u>Emission Description</u> <i>Emission:</i> Potential release of sewage, which has not been treated to the required standards to the marine environment. <i>Impact:</i> Potential impacts on the ecology of marine waters from the addition of nutrients and untreated sewage. <i>Controls:</i> In the event that the on-board sewage treatment system is inoperable or not operating to the manufacturer's specifications, treated/raw sewage is to be stored in a dedicated 86 kL, double-skinned sewage tank prior to disposal on-shore to a licensed facility. The system provides 14-18 days storage capacity.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> Condition L1.3.4 has been added to the licence for the storage requirements of sewage in the event the on-board sewage treatment system is inoperable or not operating to the manufacturer's specification.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	Management Pty Ltd – Sino Iron Project Transshipment Facility Licence to Operate – L8659/2012/1, 27 August 2015.
Point source emissions to	N/A.	Previous condition 3 has been removed. The Licensee has stated that since the commencement of operations there have been no discharges to the marine environment	CITIC Pacific Mining



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
surface water including monitoring		with a total petroleum hydrocarbon (TPH) concentration greater than 15 mg/L. The only planned wastewater discharges into the marine environment associated with the transshipment operations are the discharge of treated wastewater from the wastewater treatment plant and waste brine from the RO plant, both of which do not include TPH concentrations greater than 15 mg/L (neither plant triggers a category under the <i>Environmental Protection Regulations 1987</i>). Annexure IV of the International Convention for the Prevention of Pollution from Ships (MARPOL) 1973 and 1978 (73/78) permits the discharge of treated wastewater to the marine environment as long as the vessel is no less than 3 nautical miles from the nearest land and the wastewater is discharged whilst the vessel is proceeding en route at a speed not less than 4 knots.	Management Pty Ltd – Sino Iron Project Transshipment Facility Licence to Operate – L8659/2012/1, 27 August 2015.
Fugitive emissions	N/A.	Previous condition 1 is now covered by condition L1.2.1. Fugitive emissions of dust are considered low risk given the location of the Premises, as such fugitive emissions can be sufficiently regulated under section 49 of the <i>Environmental Protection Act 1986</i> and the Licensee's internal management systems.	General provisions of the <i>Environmental Protection Act 1986</i> .
Information	L2.1.1 – L2.1.4 and L2.2.1.	<p>Previous conditions 4 and 5 have been removed. The Licensee has stated the following:</p> <ul style="list-style-type: none"> Any spills from vessels within State waters (including Port waters) will be reported to the Department of Transport; In accordance with Annexure V of MARPOL 73/78 particular waste streams are permitted to be discharged to the sea under various scenarios. Notwithstanding this, waste is typically stored on board the Transshipment Facility and transferred to shore at Cape Preston for disposal to a licensed facility; and The discharge of raw sewage within the Cape Preston Port boundaries or if a spill is deemed to have caused or is likely to cause pollution, material environmental harm or serious environmental harm the incident will be reported to DER in accordance with section 72 of the <i>Environmental Protection Act 1986</i>. <p>Previous conditions 8 and 9 are now covered under conditions L2.1.3 and L2.2.1. Table 2.2.1 now requires the Licensee to submit in the Annual Environmental Report the</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p>CITIC Pacific Mining Management Pty Ltd – Sino Iron Project Transshipment Facility Licence to</p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		calculated daily material loading or unloading throughput for the Transshipment Facility to ensure the process limit is not exceeded.	Operate – L8659/2012/1, 27 August 2015.
Licence Duration	N/A.	This licence will be reissued for a five year period. The Licensee is aware of their obligation to notify DER if there are any changes to the operation of the Transshipment Facility.	N/A.



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
19/10/2015	Application advertised in West Australian (or other relevant newspaper)	No comments received	N/A
27/10/2015	Proponent sent a copy of draft instrument	<p>Condition L1.3.4. The Licensee has stated that no treatment occurs within the sewage tanks. Raw or partially treated sewage is only stored in the event the onboard treatment unit is inoperable. Under normal operating conditions, treated wastewater will be disposed of in accordance with MARPOL 73/78 requirements</p> <p>Table 2.2.1 - Condition 1.3.1 Daily transfer rates for the annual period will be calculated based on total volume (m³) transferred over the annual period divided by 365 days</p> <p>Table 2.2.1 – Condition 1.3.2 The fuel storage capacity of the transhippers is fixed. Inclusion of the annual capacity in the Annual Environmental Report is unnecessary as it will always be 4,588 m³</p>	<p>Condition L1.3.4 – Removal of “and/or treated”</p> <p>Table 2.2.1 - Condition 1.3.1 Changed to calculated daily material loading or unloading throughput for the Transhipment Facility</p> <p>Table 2.2.1 – Condition 1.3.2 This requirement has been removed</p>



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

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