



## Application for Licence Amendment

### Part V Division 3 of the *Environmental Protection Act 1986*

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<b>Licence Number</b>	L6168/1991/11
<b>Licence Holder</b>	BHP Iron Ore Pty Ltd
<b>ACN</b>	008 700 981
<b>File Number</b>	DER2013/001190-1
<b>Premises</b>	Yandi (Marillana Creek) Iron Ore Mine  Mining Tenements M270SA, G47/12, G47/13, G47/14, G47/15, G47/16, G47/17, G47/18, G47/19,  NEWMAN WA 6753  As defined by the Premises maps attached to the Revised Licence
<b>Date of Report</b>	27/06/2023
<b>Decision</b>	Revised licence granted

**ALANA KIDD**  
**MANAGER, RESOURCE INDUSTRIES**  
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

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# 1. Decision summary

Licence L6168/1991/11 is held by BHP Iron Ore Pty Ltd (Licence Holder) for the Yandi (Marillana Creek) Iron Ore Mine (the Premises), located at Mining Tenements M270SA, G47/12, G47/13, G47/14, G47/15, G47/16, G47/17, G47/18, G47/19, NEWMAN WA 6753.

This Amendment Report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the construction and operation of the Premises. As a result of this assessment, Revised Licence 6168/1991/11 has been granted.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this Amendment Report, the department has considered and given due regard to its Regulatory Framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary

On 04 April 2023, the Licence Holder submitted an application to the department to amend Licence L6168/1991/11 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought to manage inert concrete waste from the decommissioning of the Yandi Camp:

- Allowing for the construction and operation of a Category 62 solid waste depot facility (consisting of two areas approximately 200m apart) with a capacity of 15,000 tonnes per annual period;
- Allowing for the construction and operation of three new inert landfill facilities at Yandi Camp, increasing the Category 64 disposal limit by 10,000 tonnes per annum up to 31,800 tonnes per annual period; and
- Adding the locations of the above new facilities to the map in Schedule 1 of the Licence.

This amendment is limited only to changes to Categories 62 and 64 activities from the Existing Licence. No changes to the aspects of the existing Licence relating to Categories 5, 6, 12, 52, 54 and 73 have been requested by the Licence Holder.

Table 1 below outlines the proposed changes to the existing Licence.

**Table 1: Proposed design or throughput capacity changes**

Category	Current design throughput capacity	Proposed design throughput capacity	Description of proposed amendment
5	87,000,000 tonnes per annual period	87,000,000 tonnes per annual period	No change.
6	15,000,000 tonnes per annual period	15,000,000 tonnes per annual period	No change.
12	200,000 tonnes per annual period	200,000 tonnes per annual period	No change.
52	45 megawatts	45 megawatts	No change.

54	773 cubic metres per day	773 cubic metres per day	No change.
62	N/A	<b>15,000 tonnes per annual period</b>	The construction of the solid waste depot is to facilitate the disposal of inert concrete waste in pit as backfill material. Given the nature of the mining activities - pit(s) may not be ready to receive the concrete backfill as it becomes available. In this case it is necessary to store the waste until the selected pit(s) are ready to receive the backfill material.
64	21,800 tonnes per annual period	<b>31,800 tonnes per annual period</b>	An increase of the Category 64 limit to 31,800 tonnes per annum is required for the disposal of concrete waste generated from Yandi Camp decommissioning into three new Inert Landfills
73	4000 cubic metres in aggregate	4000 cubic metres in aggregate	No change.

### 2.2.1 Category 62 Solid Waste Depot

The Licence Holder is proposing to install a Solid Waste Depot for the storage of inert concrete waste as direct disposal to an inert landfill may not be immediately available. The solid waste depot allows for the inert concrete waste from the decommissioning of the Yandi Camp to be stored while waiting disposal.

The Licence Holder's Asbestos Register does not reference asbestos in Yandi Camp concrete making it unlikely that it will contain asbestos fibres, however the Licence Holder will undertake random hazmat surveys of camp footpaths and pedestal footings where batched and poured onsite. If asbestos is found it will be handled in accordance with code of practice for safe removal of asbestos. Water suppression will also be used to manage any silica released from the braking up of the waste concrete during removal.

The Solid Waste Depot will be located within the cleared footprint of the Ore Handling Plant 1 (OHP1) and will have a storage capacity of up to 15,000 tonnes per annual period.

The Solid Waste Depot will consist of two areas approximately 200m apart. Very minimal construction activities are required as the area has previously been cleared, levelled and bunded. Some minor earthworks may be required to provide access to the location.

The Licence Holder is not proposing to establish specific trenches for the Solid Waste depot. The concrete waste will be broken down to a maximum of 20mm pieces and simply be tipped to ground within the existing cleared area. The area has an existing bund / windrow which will minimise water entering and exiting the facility. Where the concrete material cannot be used onsite for rock armouring at culverts the material will be removed from the facility and placed in pit once the mine plan allows from this material to be placed as backfill.

Refer to Figure 1 for the location of the Solid Waste Depot (highlighted in yellow).

### 2.2.2 Category 64 Inert Landfills

Three new Inert Landfills are required to allow the disposal of the inert concrete waste from the decommissioning of the Yandi Camp. The new landfills will cover an area of approximately 1.5 ha within land previously disturbed for the Yandi Camp Wastewater Treatment (WWTP) spray field.

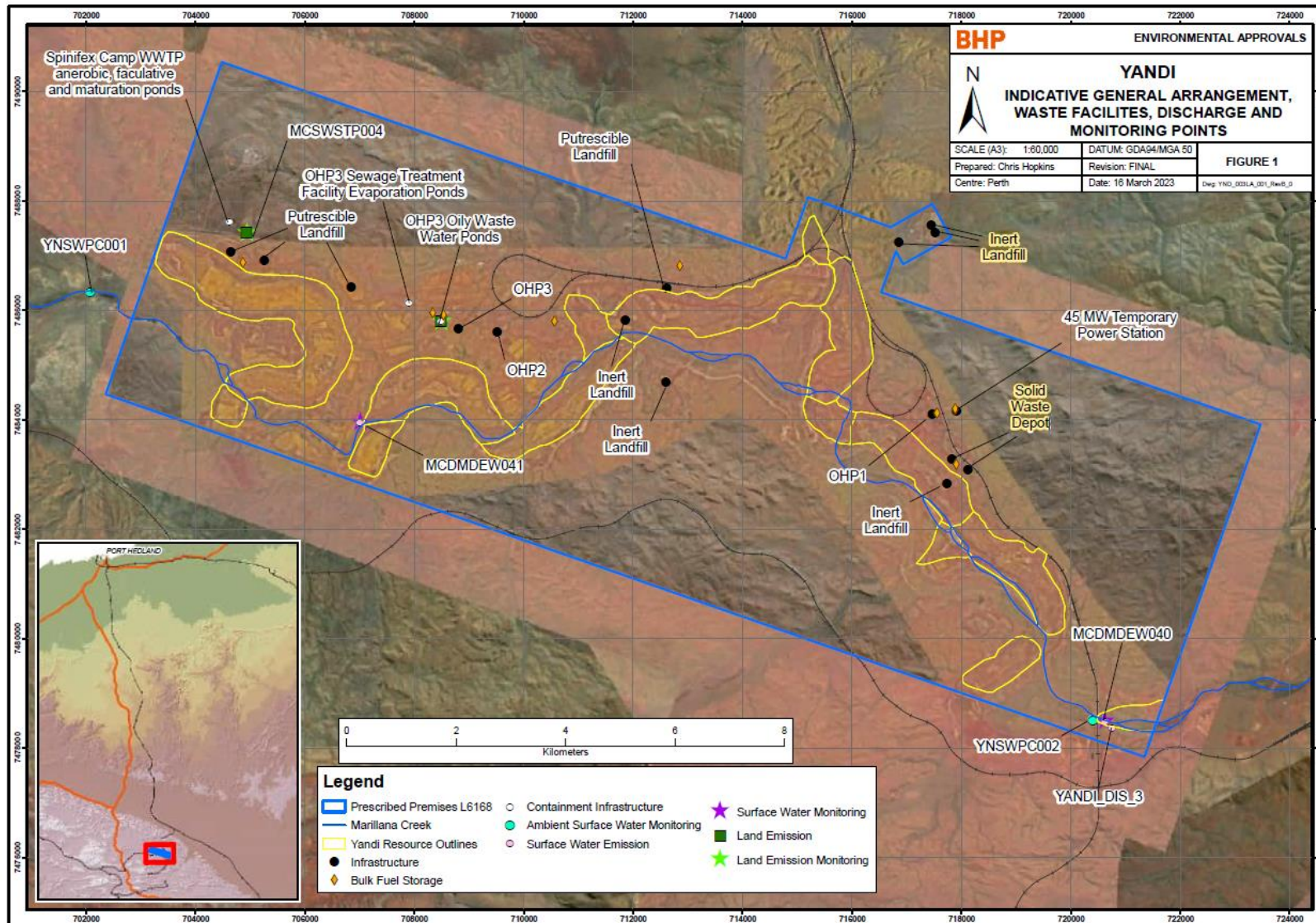
Construction of the Inert Landfills will involve the excavation of the existing soil to a depth of approximately three metres. The excavated soil will be used to form a windrow to direct stormwater around the facility.

The Inert Landfills are designed to accept up to 10,000 tonnes of inert concrete material with the excavated soil used to cap the facility to a depth of 0.5m once the deposition of the waste is complete. Following this the area will be rehabilitated as part of the broader rehabilitation activities associated with the decommissioning of the Yandi Camp.

The Licence Holder is not proposing to establish specific trenches for the Inert Landfill. Instead the inert concrete waste will be placed on ground to a height of ~1 m before being covered by a minimum of 50mm fill. The landfill areas are naturally undulating and the landfill will be designed to blend into the natural topography of the area. The facility will be surrounded by a low earthen bund to prevent water entry and exiting the area. In accordance with Condition 4 of licence L6168/1991/11 the tipping area will be restricted to a maximum linear length of 30 metres and no greater than 2 metres in height.

Refer to Figure 1 for the locations of the Inert Landfills (highlighted in yellow).





**Figure 1: Locations of Solid Waste Depot and Inert Landfills (highlighted in yellow)**

## 2.3 Part IV of the EP Act

Premises activities have been assessed under Part IV of the EP Act with two ministerial statements issued, MS679 amended by MS1039. MS679 was for approval for life-of-mine proposal to mine iron ore and includes clearing of native vegetation, subsequent rehabilitation and decommissioning of the site. MS1039 includes amendments for mine production rate and throughput, administrative amendments and replacement of conditions relating to clearing of native vegetation, decommissioning and rehabilitation. Management of impacts to Marillana Creek and conservation of significant flora and fauna associated with ground disturbance activities have been assessed under the ministerial statements.

The activities and emissions from the licence holder proposed amendments have not been assessed under the ministerial statements and will be assessed under this Part V licence.

## 3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guideline: Risk assessments* (DWER 2020).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission.

### 3.1 Source-pathways and receptors

#### 3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises construction and operation which have been considered in this Amendment Report are detailed in Table 2 below. Table 2 also details the proposed control measures the Licence Holder has proposed to assist in controlling these emissions, where necessary.

**Table 2: Licence Holder controls**

Emission	Sources	Potential pathways	Proposed controls
<b>Category 62 Solid Waste Depot</b>			
<i>Construction</i>			
Dust	Dust associated with minor earthworks to gain access to the proposed depot area and vehicle movements.	Air/windborne pathway	<ul style="list-style-type: none"><li>Dust control on unsealed roads will be managed via the use of water carts as required.</li></ul>
Hydrocarbons / chemicals	From multiple vehicles / machinery and movements onsite during construction	Direct discharges	<ul style="list-style-type: none"><li>Hydrocarbons / chemicals will be stored appropriately to minimise the risk of discharges to the environment;</li><li>Any fuel bullets (if required) will be double skinned to prevent leaks;</li><li>Other hydrocarbons / chemicals will be stored in a bunded area to prevent any</li></ul>

Emission	Sources	Potential pathways	Proposed controls
			spills entering the environment; and <ul style="list-style-type: none"> <li>• In the event that a spill occurs the contaminated material will be cleaned up. Any hydrocarbon contaminated soil will be transported to the Landfarm for remediation in accordance with Condition 4 of licence L6168/1991/11. Any other contaminated material will be transported offsite for disposal using a licenced contractor.</li> </ul>
<i>Operations</i>			
Dust	Dust from the movement of inert concrete waste transported and vehicles	Air/windborne pathway	<ul style="list-style-type: none"> <li>• Dust control on unsealed roads will be managed via the use of water carts as required;</li> <li>• Storage of inert concrete waste will be at the designated Solid Waste Depot and will be used as backfill once a selected pit(s) become available; and</li> <li>• Maximum capacity of 15,000 tonnes per annual period.</li> </ul>
Contaminated stormwater	Clean rainfall ingress into Solid Waste Depot, becoming contaminated.	Egress of contaminated stormwater via direct discharges to soils and vegetation	<ul style="list-style-type: none"> <li>• Located within the cleared footprint of OHP1 in a previously cleared, levelled and bunded area to minimise surface water entry to the OHP1 operational areas; and</li> <li>• Existing bund / windrow which will minimise water entering and exiting the facility.</li> </ul>
Leachate	Water flow through the ground of the Solid Waste Depot, soil profile and into groundwater	Seepage	<ul style="list-style-type: none"> <li>• Concrete waste will be tested to ensure that it is inert before storage at the facility;</li> <li>• The facility is designed to minimise stormwater entering or leaving the depot;</li> <li>• Located within the cleared footprint of OHP1 in a previously cleared, levelled and bunded area to minimise surface water entry to the OHP1 operational areas;</li> <li>• Existing bund / windrow which will minimise water entering and exiting the facility; and</li> <li>• Depth to groundwater at the proposed solid waste depot is greater than 70m. In the unlikely event of leachates or runoff being generated it would be unlikely to reach the groundwater.</li> </ul>



Emission	Sources	Potential pathways	Proposed controls
<b>Category 64 Inert Landfills</b>			
<i>Construction</i>			
Dust	Ground preparation and excavation	Air/wind dispersion	<ul style="list-style-type: none"> <li>Dust control via the use of water carts as required.</li> </ul>
Hydrocarbons / chemicals	From multiple vehicles / machinery and movements onsite during construction	Direct discharges	<ul style="list-style-type: none"> <li>Hydrocarbons / chemicals will be stored appropriately to minimise the risk of discharges to the environment;</li> <li>Any fuel bullets (if required) will be double skinned to prevent leaks;</li> <li>Other hydrocarbons / chemicals will be stored in a bunded area to prevent any spills entering the environment; and</li> <li>In the event that a spill occurs the contaminated material will be cleaned up. Any hydrocarbon contaminated soil will be transported to the Landfarm for remediation in accordance with Condition 4 of licence L6168/1991/11. Any other contaminated material will be transported offsite for disposal using a licence contractor.</li> </ul>
<i>Operation</i>			
Dust	Trench construction and vehicle movements	Air/wind dispersion	<ul style="list-style-type: none"> <li>Dust control on unsealed roads will be managed via the use of water carts as required;</li> <li>Maximum capacity of 10,000 tonnes per annual period;</li> <li>Landfill to be covered with 0.5 m following completion of deposition of waste;</li> <li>Excavation to a depth of 3 m;</li> <li>Waste disposed of in a defined trench or within an area enclosed by earthen bunds;</li> <li>No waste shall be temporarily stored or landfilled within 35 metres from the boundary of the premises;</li> <li>The tipping area is restricted to a maximum linear length of 30 metres and is no greater than 2 metres in height; and</li> <li>Capping of the Inert Landfills with excavated soil to a depth of 0.5m when deposition of the waste concrete is</li> </ul>

Emission	Sources	Potential pathways	Proposed controls
			complete.
Contaminated stormwater	Clean rainfall ingress into landfilling areas, becoming contaminated.	Egress of contaminated stormwater via direct discharges to soils and vegetation	<ul style="list-style-type: none"> <li>• Windrow to be established along the Inert Landfill boundaries to direct stormwater away from the excavation.</li> </ul>
Leachate	Water flow through the Inert Landfills, soil profile and into groundwater	Seepage	<ul style="list-style-type: none"> <li>• Windrow to be established along the Inert Landfill boundaries to direct stormwater away from the excavation.</li> <li>• The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2m;</li> <li>• Concrete waste will be tested to ensure that it is inert before storage at the facility; and</li> <li>• Depth to groundwater at the proposed new inert landfills is greater than 40m. In the unlikely event of leachates being generated they would be unlikely to reach the groundwater.</li> </ul>
Windblown waste	Wind blowing through the Inert Landfills where inert concrete waste has been disposed of	Air/wind dispersion	<ul style="list-style-type: none"> <li>• Perimeter fencing maintained around active landfill trenches;</li> <li>• Landfill to be covered with 0.5 m following completion of deposition of waste; and</li> <li>• Wind-blown waste is contained within the boundary of the Premises and that wind-blown waste is returned to the tipping area on at least a monthly basis.</li> </ul>

### 3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder's from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

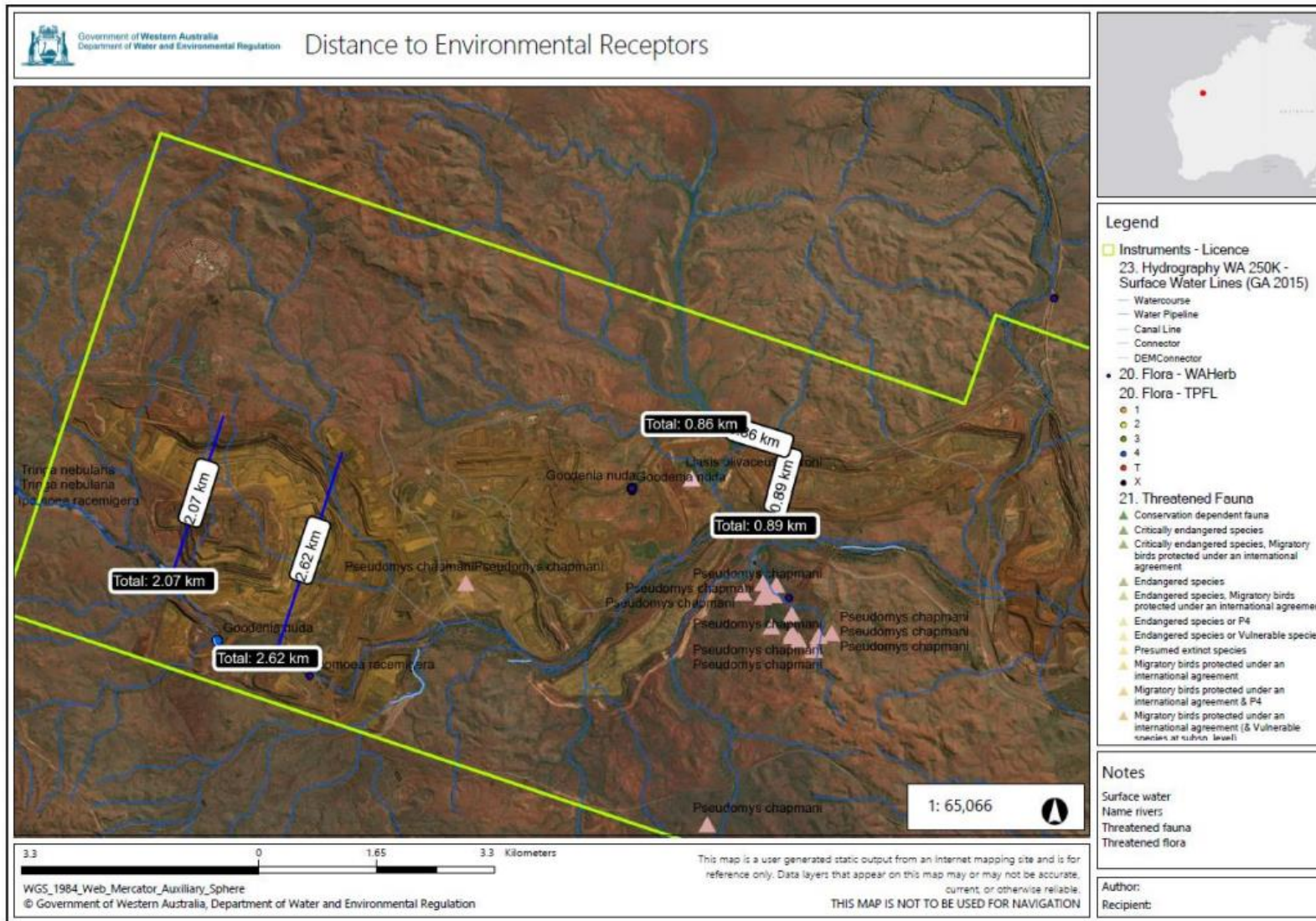
Table 3 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guideline: Environmental siting* (DWER 2020)). Distances to sensitive receptors is shown in Figure 2.

**Table 3: Sensitive human and environmental receptors and distance from prescribed activity**

Human receptors	Distance from prescribed activity
-	No human receptors within 10 km of the Premises.
Environmental receptors	Distance from prescribed activity
Pilbara Groundwater Area, proclaimed under the <i>Rights in Water and Irrigation Act 1914</i> (RIWI Act).	Depth to groundwater at the proposed putrescible landfills is between 50m and 90m below ground level.  Main Aquifer is the Hammersley – Fractured Rock Aquifer – groundwater levels may be deep below the surface, and water is generally fresh. Main use of the aquifer is for mining and mine dewatering from iron ore mines. Bores also drilled for road and railway construction.
Pilbara Surface Water Area, proclaimed under the RIWI Act.	No surface water receptors within 100 m of the proposed sites as per the Environmental Protection (Rural Landfill) Regulations 2002*
Native fauna and flora**	Within premises boundary.  Mulga low woodland over bunch grasses on fine textured soils in valley floors, and <i>Eucalyptus leucophloia</i> over <i>Triodia brizoides</i> on skeletal soils of the ranges.

Note: \*Herberts Creek (860 m west) and Iowa Creek (3.1 km east). Marillana Creek is assessed and managed under Ministerial Statement MS1039.

\*\*Conservation Significant flora and fauna assessed and managed under Ministerial Statement MS1039



**Figure 2: Distance to sensitive receptors**

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## 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are incomplete they have not been considered further in the risk assessment.

Where the Licence Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Licence Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the Licence Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 4.

The Revised Licence L6168/1991/11 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises i.e. Categories 62 and 64 activities.

The conditions in the Revised Licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

**Table 4. Risk assessment of potential emissions and discharges from the Premises during construction and operation**

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
<b>Construction</b>								
Category 64 Inert Landfills	Dust	Dust deposition onto vegetation	Vegetation	Refer to Section 3.1	C = <i>Slight</i> L = <i>Unlikely</i> <b>Low Risk</b>	Y	N/A	N/A
	Hydrocarbons / chemicals	Direct discharges from leaks / spills	Soil, vegetation	Refer to Section 3.1	C = <i>Slight</i> L = <i>Unlikely</i> <b>Low Risk</b>	Y	N/A	N/A
Category 62 Solid Waste Depot	Dust	Dust deposition onto vegetation	Vegetation	Refer to Section 3.1	C = <i>Slight</i> L = <i>Unlikely</i> <b>Low Risk</b>	Y	N/A	N/A
	Hydrocarbons / chemicals	Direct discharges from leaks / spills	Soil, vegetation	Refer to Section 3.1	C = <i>Slight</i> L = <i>Unlikely</i> <b>Low Risk</b>	Y	N/A	N/A
<b>Operation</b>								
Category 62 Solid Waste Depot	Dust from vehicle / machinery movements, loading / unloading of inert concrete material	Dust deposition onto vegetation	Vegetation	Refer to Section 3.1	C = <i>Minor</i> L = <i>Unlikely</i> <b>Medium Risk</b>	Y	Condition 2, Table 2 Waste acceptance Requires limit on waste acceptance  Condition 8, Table 6 Design and construction/installation requirements Requires design requirements on the Solid Waste Depot  Condition 9 requires that	N/A

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Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
							compliance documents be provided following construction of the Solid Waste Depot  Condition 10 requires that the Solid Waste Depot be operated in accordance with the licence following submission of the compliance documents	
	Contaminated stormwater runoff	Run off out of the activity area	Soil, vegetation	Refer to Section 3.1	C = <i>Minor</i> L = <i>Unlikely</i> <b>Medium Risk</b>	Y	Condition 2, Table 2 Waste acceptance Requires limit on waste acceptance  Condition 8, Table 6 Design and construction/installation requirements Requires design requirements on the Solid Waste Depot  Condition 9 requires that compliance documents be provided following construction of the Solid Waste Depot  Condition 10 requires that the Solid Waste Depot be operated in accordance with the licence following submission of the compliance documents	N/A
	Leachate	Seepage through soil into groundwater	Soil, groundwater	Refer to Section 3.1	C = <i>Slight</i> L = <i>Unlikely</i> <b>Low Risk</b>	Y	Condition 2, Table 2 Waste acceptance Requires limit on waste acceptance  Condition 8, Table 6 Design and construction/installation	N/A

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Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
							<p>requirements</p> <p>Requires design requirements on the Solid Waste Depot</p> <p>Condition 9 requires that compliance documents be provided following construction of the Solid Waste Depot</p> <p>Condition 10 requires that the Solid Waste Depot be operated in accordance with the licence following submission of the compliance documents</p>	
Category 64 Inert Landfills	Dust from vehicle / machinery movements, disposal of inert concrete material	Dust deposition onto vegetation	Vegetation	Refer to Section 3.1	<p>C = <i>Minor</i></p> <p>L = <i>Unlikely</i></p> <p><b>Medium Risk</b></p>	Y	<p>Condition 2, Table 2 Waste acceptance Requires limit on waste acceptance</p> <p>Condition 4, Table 3 Waste processing Requires capping of the Inert Landfills</p> <p>Condition 8, Table 6 Design and construction/installation requirements Requires design requirements on the Inert Landfills</p> <p>Condition 9 requires that compliance documents be provided following construction of the Inert Landfills</p> <p>Condition 10 requires that the Inert Landfills be operated in accordance with the licence</p>	N/A

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
							following submission of the compliance documents	
	Contaminated stormwater runoff	Run off out of the activity area	Soil, vegetation	Refer to Section 3.1	C = <i>Minor</i> L = <i>Unlikely</i> <b>Medium Risk</b>	Y	Condition 2, Table 2 Waste acceptance Requires limit on waste acceptance  Condition 8, Table 6 Design and construction/installation requirements Requires design requirements on the Inert Landfills  Condition 9 requires that compliance documents be provided following construction of the Inert Landfills  Condition 10 requires that the Inert Landfills be operated in accordance with the licence following submission of the compliance documents	N/A
	Leachate	Seepage through soil into groundwater	Soil, groundwater	Refer to Section 3.1	C = <i>Slight</i> L = <i>Unlikely</i> <b>Low Risk</b>	Y	Condition 2, Table 2 Waste acceptance Requires limit on waste acceptance  Condition 8, Table 6 Design and construction/installation requirements Requires design requirements on the Inert Landfills  Condition 9 requires that compliance documents be provided following construction of the Inert	N/A

Risk Event					Risk rating <sup>1</sup> C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions <sup>2</sup> of licence	Justification for additional regulatory controls
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls				
							Landfills Condition 10 requires that the Inert Landfills be operated in accordance with the licence following submission of the compliance documents	
	Windblown waste	Air/wind dispersion	Soils, vegetation	Refer to Section 3.1	<i>C = Slight</i> <i>L = Unlikely</i> <b>Low Risk</b>	Y	Condition 2, Table 2 Waste acceptance Requires limit on waste acceptance  Condition 4, Table 3 Waste processing Requires capping of the Inert Landfills  Condition 8, Table 6 Design and construction/installation requirements Requires design requirements on the Inert Landfills  Condition 9 requires that compliance documents be provided following construction of the Inert Landfills  Condition 10 requires that the Inert Landfills be operated in accordance with the licence following submission of the compliance documents	N/A

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

Note 2: Proposed Licence Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

## 4. Consultation

Table 5 provides a summary of the consultation undertaken by the department.

**Table 5: Consultation**

Consultation method	Comments received	Department response
Local Government Authority advised of proposal (12/05/2023)	No comments received.	N/A.
Department of Mines, Industry Regulation and Safety (DMIRS) advised of proposal (12/05/2023)	No comments received.	N/A.
Department of Jobs, Tourism, Science and Innovation (JTSI) advised of proposal (12/05/2023)	No comments received.	N/A.
Department of Planning, Lands and Heritage (DPLH) advised of proposal (12/05/2023)	No comments received.	N/A.
Banjima Aboriginal Corporation advised of proposal (12/05/2023)	No comments received.	N/A.
Licence Holder was provided with draft amendment on (21/06/2023)	Licence Holder waived consultation period on 22/06/2023.	Licence Holder waived consultation period on 22/06/2023.

## 5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 5.1 Summary of amendments

Table 6 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Licence as part of the amendment process.

**Table 6: Summary of licence amendments**

Existing condition	Condition summary	Revised licence condition	Conversion notes
Cover page	Authorised categories	N/A	Addition of Category 62 Solid Waste Depot and increase in capacity of Category 64 Class II putrescible landfill site up to 31,800 tonnes per annual period.
1, Table 1	Production or design capacity limits	1, Table 1	N/A
2, Table 2	Waste acceptance	2, Table 2	Updates to quantity limits for Categories 62 and 64.
3	Waste removal	3	N/A
4, Table 3	Waste processing	4, Table 3	Inclusion of capping requirements for Inert Landfills.
5, Table 4	Cover requirements	5, Table 4	N/A
6	Wind-blown waste	6	N/A
7	Waste storage / treatment	7	N/A
8, 9, 11, Table 6	Construction condition	8, Table 6	Retitled according to new wording of this table.  All infrastructure in Table 6 was check if it had been constructed. All is yet to be constructed.  Inclusion of design and construction requirements for Solid Waste Depot and Inert Landfills.  Inclusion of Bioremediation landfarms from old condition 13.
10	Submission of Compliance Document	9	Modified to new wording of this condition.
N/A	Allowing operation of constructed infrastructure with conditions of licence.	10	New condition to allow operation of the infrastructure following submission of the compliance documents.
12	Power station notifications	11	Updated condition number only.
13, Table 7	Construction of Bioremediation landfarms	8, Table 6	Copied the Bioremediation landfarms into Table 6 as repetitive condition and table.
14	Bioremediation landfarms compliance document	9	Copied the Bioremediation landfarms into Table 6 as repetitive condition and table so covered by compliance document condition 9.
15, Table 8	Emission points to surface water	12, Table 7	Updated condition and table number only.



Existing condition	Condition summary	Revised licence condition	Conversion notes
16, Table 9	Emissions to land	13, Table 8	Updated condition and table number only.
17, Table 10	Point source emissions to air	14, Table 9	Updated condition and table number only.
18	Sampling	15	Updated condition number only.
19	Monitoring frequency	16	Updated condition number only.
20	Calibration	17	Updated condition number only.
21	Calibration	18	Updated condition number only.
22, Table 11	Monitoring of point source emissions to surface water	19, Table 10	Updated condition and table number only.
23, Table 12	Monitoring of emissions to land	20, Table 11	Updated condition and table number only.
24, Table 13	Monitoring of inputs and outputs	21, Table 12	Updated condition and table number only.
25, Table 14	Monitoring of ambient surface water quality	22, Table 13	Updated condition and table number only.
26	Records	23	Updated condition number only.
27	Annual Audit Compliance Report	24	Updated condition number only.
28	Complaints	25	Updated condition number only.
29	Books	26	Updated condition number only.
30	Books available	27	Updated condition number only.
31, Table 15	Annual Environmental Report	28, Table 14	Updated formatting errors
32	Annual Environmental Report comparison	29	Updated condition number only.
33, Table 16	Non-annual reporting requirements	30, Table 15	Updated condition and table number only.
34, Table 17	Notification requirements	31, Table 16	Updated condition and table number only.
Table 17	Definitions	N/A	Inclusion of OHP Ore Handling Plant
Schedule 1: Maps	Maps	N/A	Figure 1 updated to include Solid Waste Depot and Inert Landfills. Inclusion of Figure 4 Solid Waste Depot Locations.

Existing condition	Condition summary	Revised licence condition	Conversion notes
			Inclusion of Figure 5 Indicative Inert Landfill Locations.
Schedule 2: Premises boundary	Premises boundary	N/A	Table 18 included with coordinates.
Schedule 3: Notification Form	Notification Form	N/A	N/A

## References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020, *Guideline: Environmental Siting*, Perth, Western Australia.
3. *DWER 2020, Guideline: Risk Assessments, Perth, Western Australia.*
4. BHP Iron Ore Pty Ltd, Application to Amend the YAndi Environmental Licence L6168/1991/11 04/04/2023, Perth, Western Australia.
5. BHP Iron Ore Pty Ltd, RE: L6168 Yandi Licence Amendment 08/05/2023, Perth, Western Australia.
6. BHP Iron Ore Pty Ltd, RE: L6168 Yandi Licence Amendment 30/05/2023, Perth, Western Australia.
7. BHP Iron Ore Pty Ltd, RE: NOTIFICATION : PROPOSED AMENDMENT TO LICENCE L6168/1991/11 22/06/2023, Perth, Western Australia.

## Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY				
<b>Application type</b>				
Works approval	<input type="checkbox"/>			
Licence	<input type="checkbox"/>	Relevant works approval number:		None <input type="checkbox"/>
		Has the works approval been complied with?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Has time limited operations under the works approval demonstrated acceptable operations?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?	Yes <input type="checkbox"/> No <input type="checkbox"/>	
		Date Report received:		
Renewal	<input type="checkbox"/>	Current licence number:		
Amendment to works approval	<input type="checkbox"/>	Current works approval number:		
Amendment to licence	<input checked="" type="checkbox"/>	Current licence number:	L6168/1991/11	
		Relevant works approval number:	N/A	<input type="checkbox"/>
Registration	<input type="checkbox"/>	Current works approval number:	None	<input type="checkbox"/>
Date application received	04/04/2023			
<b>Applicant and Premises details</b>				
Applicant name/s (full legal name/s)	BHP Iron Ore Pty Ltd			
Premises name	Yandi (Marillana Creek) Iron Ore Mine			
Premises location	Mining Tenements M270SA, G47/12, G47/13, G47/14, G47/15, G47/16, G47/17, G47/18, G47/19, NEWMAN WA 6753			
Local Government Authority	Shire of East Pilbara			
<b>Application documents</b>				
HPCM file reference number:	DWERDT761973			
Key application documents (additional to application form):	Application Form Supporting Documentation			
<b>Scope of application/assessment</b>				

Summary of proposed activities or changes to existing operations.	<p>Licence amendment to manage inert concrete waste from the decommissioning of the Yandi Camp:</p> <ul style="list-style-type: none"> <li>• Allowing for the construction and operation of a Category 62 solid waste depot facility (consisting of two areas approximately 200m apart) with a capacity of 15,000 tonnes per annual period;</li> <li>• Allowing for the construction and operation of three new inert landfill facilities at Yandi Camp, increasing the Category 64 disposal limit by 10,000 tonnes per annum up to 31,800 tonnes per annual period; and</li> <li>• Adding the locations of the above new facilities to the map in Schedule 1 of the Licence.</li> </ul>
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Category number/s (activities that cause the premises to become prescribed premises)

Table 1: Prescribed premises categories

Prescribed premises category and description	Assessed production or design capacity	Proposed changes to the production or design capacity (amendments only)
Category 5 – Processing or beneficiation of metallic or non-metallic ore	87,000,000 tonnes per annual period	No change
Category 6 – Mine dewatering	15,000,000 tonnes per annual period	No change
Category 12 – Screening, etc. of material	200,000 tonnes per annual period	No change
Category 52 – Electric power generation	45 megawatts	No change
Category 54 – Sewage facility	773 cubic metres per day	No change
Category 52 – Solid waste depot	N/A	15,000 tonnes per annual period
Category 64 – Class II putrescible landfill site	21,800 tonnes per annual period	31,800 tonnes per annual period
Category 73 – Bulk storage of chemicals etc.	4000 cubic metres in aggregate	No change

Legislative context and other approvals

Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 679 and 1039 EPA Report No: 1166 and 1577
Has the proposal been referred and/or assessed under the EPBC Act?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Reference No: No, and exemption applies due to MS 679 and 1039.

Has the applicant demonstrated occupancy (proof of occupier status)?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Certificate of title <input type="checkbox"/> General lease <input type="checkbox"/> Expiry: Mining lease / tenement <input type="checkbox"/> Expiry: Other evidence <input checked="" type="checkbox"/> Expiry: Not applicable to licence amendments.
Has the applicant obtained all relevant planning approvals?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	Approval: Expiry date: If N/A explain why?
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	CPS No: An exemption applies with MS 679 and 1039.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Application reference No: No – not required. Licence/permit No: N/A An exemption applies with MS 679 and 1039.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Application reference No: Licence/permit No: Licence / permit not required.
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Type: Surface Water Area Has Regulatory Services (Water) been consulted? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Regional office: North West
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Name: N/A Priority: N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to <a href="#">WQPN 25</a> )? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx</i> )	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>Iron Ore (Marillana Creek) Agreement Act 1991</i>



Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<p>Classification: possibly contaminated – investigation required (PC–IR).</p> <p>Date of classification: 03 Dec 2014 8:00 AM.</p>