

Amendment Report

Application for Licence Amendment

Part V Division 3 of the Environmental Protection Act 1986

Licence Number	L6820/1993/12
Licence Holder	Robe River Mining Co. Pty Limited
ACN	008 694 246
File Number	DER2014/000766-1
Premises	Mesa J and K Iron Ore Mine
	Mineral Lease ML 248SA
	As defined by the Premises maps attached to the Revised Licence
Date of Amendment Report	1/06/2023
Decision	Revised licence granted

Alana Kidd Manager, Resource Industries

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

Table of Contents

1.	Decis	ion summary	1
2.	Scope	e of assessment	1
	2.1	Regulatory framework	1
	2.2	Application summary	1
		2.2.1 Other proposed operation	2
	2.3	Other approvals	2
	2.4	Consolidation of Licence	3
3.	Risk a	issessment	4
	3.1	Source-pathways and receptors	4
		3.1.1 Emissions and controls	4
		3.1.2 Receptors	6
	3.2	Risk ratings	8
4.	Consu	ıltation1	2
5.	Concl	usion1	2
	5.1	Summary of amendments1	2
Refe	rences	۶1	7
		: Summary of licence holder's comments on risk assessment and	
draft	condi	tions1	8
App	endix 2	2: Application validation summary2	1
Table	e 1: Proi	posed design / production capacity changes	2
		evant approvals	
		ences consolidated in this amendment	
		nce Holder controls	
Table	5: Sen	sitive human and environmental receptors and distance from prescribed activity.	7
		and operation	9
Table	e 7: Con	sultation1	2
Table	e 8: Sun	nmary of licence amendments1	2
Table	9: Con	solidation of licence conditions in this amendment1	3

1. Decision summary

Licence L6820/1993/12 is held by Robe River Mining Co. Pty Limited (Licence Holder) for the Mesa J and K Iron Ore Mine (the Premises), located at mineral lease, ML 248SA.

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 L6820/1993/12 has been granted.

The Revised Licence issued as a result of this amendment consolidates and supersedes the existing Licence previously granted in relation to the Premises. The revised Licence has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

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 22 December 2022, the licence holder submitted an application to the department to amend Licence L6820/1993/12 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Category 5: Processing of ore (20,000,000 tonnes per annual period) ongoing operation of the Ore Processing Facility (OPF) infrastructure;
- Category 64: Landfill facilities (2,000 tonnes per annual period) construction and operation of landfill facilities for the ongoing disposal of up to 2,000 tonnes of waste per annual period at the operations;
- Ongoing operation of fuel storage and refuelling facilities;
- Update groundwater monitoring locations to reflect changes to the groundwater monitoring bores as constructed under Works Approval W6425/2020/1;
- Update condition 31 with the specifications, 186 m³/day throughput, Total Nitrogen 20 mg/L and Total Phosphorus 8 mg/L;
- Remove monitoring requirements for anionic polyacrylamide as no methods for analysis are available in Australian commercial laboratories; and
- Other administrative amendments.

This amendment is limited only to changes to Category 5, 54, and 64 activities from the existing Licence. No changes to the aspects of the existing Licence relating to Category 6, 12, 54, and 61A have been requested by the licence holder.

The Licence holder has proposed an increased in category 5 production capacity to 20,000,000 tonnes per annual period to allow for improved operation and production flexibility and for Mesa H ore to be processed through the Mesa J processing plants.

The increase in category 5 production capacity of iron ore aligns with the *Iron Ore (Robe Rover)* Agreement Act 1964 Robe Valley Sustaining Works – Stage 3 Additional Proposal that was approved on 14 July 2020 by the Minister for State Development. The Licence holder has stated that "the existing emission controls are suitable to manage the increased premise production rate".

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

Category	Current design / production capacity	Proposed design / production capacity	Description of proposed amendment
5	13,000,000 tonnes per year	20,000,000 tonnes per year	Increased capacity
6	30 Gigalitres per years	-	No change
12	10,000,000 tonnes per year	-	No change
54	183 m ³ per day	-	No change
61A	16,000 tonnes per year	-	No change
64	2,000 tonnes per year	-	Allow for construction and operation of proposed / subsequent landfill facilities.

2.2.1 Other proposed operation

The licence holder intends for ongoing operation of the fuel storage and refuelling facilities at the Premises. The throughput does not trigger a prescribed activity, and therefore Category 73 is not included in this Licence amendment.

2.3 Other approvals

The licence holder has provided the following information relating to other approvals as outlined in Table 2.

Legislation	Number	Approval
Environmental Protection Act 1986 (EP Act) (Part IV)	Ministerial Statement (MS) 1141 (Mesa J and H) and MS 776 (Mesa K)	The infrastructure to be included in the Licence is located within MS 1141 and MS 776.
EP Act (Part V Clearing)	CPS 4397 (Mesa J) and CPS 5639 (Mesa K)	CPS 4397 – clearing of up to 750 ha on ML248SA for purposes including construction camp and associated activities.
		CPS 5639 – clearing of up to 30 ha on ML248SA for purposes including mine support infrastructure and associated works.
		Clearing that is not approved via existing MS 1141 and MS 776, will be managed under CPS 4397 and CPS 5639.
Rights in Water and Irrigation Act 1914 (RiWI Act)	GWL 107678	GWL 107678 allows for abstraction of 30,000,000 kL per annum from the mine borefield for the purposes of exploration, construction, operation, and potable water supply.
Iron Ore (Robe River) Agreement Act 1964	AML48SA	The Premises boundary is located wholly within tenure pursuant to the <i>Iron Ore (Robe River) Agreement Act 1964.</i>

2.4 Consolidation of Licence

As part of this amendment package the department has consolidated the Licence by incorporating changes made under the Amendment Notices as summarised in Table 3.

Instrument	Issued	Summary of approval
L6820/1993/12	22/05/2013	Licence re-issue
L6820/1993/12	18/01/2018	Amendment Notice 1
		 authorisation of the Mesa J Secondary Sizer constructed under works approval W5634/2014/1;
		 addition of TSF5 Stage 2 monitoring bores constructed under W5535/2013/1;
		 re-categorisation and expansion of the current Category 63 Inert Landfill to a Category 64 Waste Dump Landfill;
		 addition of Category 12 to allow for the use of a Mobile Crushing and Screening Plant; and
		other administrative amendments.
L6820/1993/12	10/07/2019	Amendment Notice 2
		 addition of Category 54 for the installation and operation of a Wastewater Treatment Plant (WWTP) and associated sprayfield.
L6820/1993/12	1/06/2023	Amendment to include:
		 amalgamation of Amendment Notices 1 and 2;
		 Category 5: Processing of ore (20,000,000 tonnes per annual period) – ongoing operation of the Ore Processing Facility (OPF) infrastructure;
		 Category 64: Landfill facilities (2,000 tonnes per annual period) construction and operation of landfill facilities for the ongoing disposal of up to 2,000 tonnes of wastes per annual period at the operations;
		 ongoing operation of fuel storage and refuelling facilities;
		 update groundwater monitoring locations to reflect changes to the groundwater monitoring bores as constructed under Works Approval W6425/2020/1;
		 update condition 31 with the specifications, 186 m3/day throughput, Total Nitrogen 20 mg/L and Total Phosphorus 8 mg/L;
		 remove monitoring requirements for anionic polyacrylamide as no methods for analysis are available in Australian commercial laboratories; and
		other administrative amendments.

Table 3: Licences consolidated in this amendment

The obligations of the licence holder have not changed in consolidating the Licence. The department has not undertaken any additional risk assessment of the Premises related to previous Amendment Notices.

In consolidating the licence, the CEO has:

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

The full consolidation of licence conditions as they relate to this revised Licence are detailed in Section 5.1. Previously issued Amendment Notices will remain on the department's website for future reference and will act as a record of the department's decision making.

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 2020a).

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 4 below. Table 4 also details the proposed control measures the licence holder has proposed to assist in controlling these emissions, where necessary.

Table 4: Licence Holder controls

Emission	Sources	Potential pathways	Proposed controls
Construction	1		
Dust	Construction of landfill facilities Vehicle movements	Air / windborne pathway	 existing controls set out in the Licence L6820/1993/12 apply (conditions 9, 10) use of water trucks for dust suppression control of vehicle movements and maintain restricted speeds
Operation			
Category 5			
Dust	Secondary sized material processing, stockpiling	Air / windborne pathway	• maintain and operate dust suppression sprays fitted at all material transfer points including: primary sizer discharge conveyor, secondary sizer, IPS stacker conveyor, TLO conveyor
	Increased processing of iron ore		 weekly inspection and maintenance to collect / remove material if potential dust risk
			• existing controls set out in the Licence L6820/1993/12 apply (conditions 9, 10)
Contaminated stormwater and process		Seepage and infiltration through subsurface	 daily inspections of pit walls, embankments, and discharge location for integrity / damage
water runoff from leaks / burst pipes			 daily inspections of tailings delivery and return pipelines for integrity, damage, and potential leaks
Contaminated runoff of thickened	Increased production at the thickener plant		• in the event of a pipe break or leak, spill is to be contained within a corridor or remediated
tailings material or flocculant			• surface water contained by bunds will be pumped to collection sumps or allowed to evaporate
			process water release is to be collected by bunds and directed to collection sumps via concrete spillways
			ensure potentially contaminated surface water is directed to oily water collection and treatment system
			• maintain collection sumps for sedimentation and to drive-in for sediment removal
Thickener seeping and migrating into groundwater / surface water	Increased deposition of thickened tailings in Tailings Storage Facility (TSF)3, 4, 5		deposition of tailings at the northern end of TSF3 and decant pond located at the southern side (furthest from iron deposit geology representing hydraulic connection to Robe River) to reduce

Emission	Sources	Potential pathways	Proposed controls				
			seepage				
			 thickened tailings may be deposited into TSF4 and TSF5 as contingency storage 				
			 monthly inspection of the decant pond location and standing water level 				
			 monitoring during deposition to assess groundwater and pond water quality and levels, comparison to baseline and model conditions 				
Category 64							
Dust	Operation of landfill facilities	Air / windborne pathway	dust suppression in the form of water trucks, control of vehicle movements, and restricted speeds must be implemented during operations				
			 restrict activities that have the potential to generate high dust levels during windy conditions 				
Stormwater run off		Seepage and infiltration through	 maintain surface water management structures (bunding) to divert surface water flows away from landfill material 				
Seepage of landfill leachate		subsurface	 ensure potentially contaminated surface water is collected and contained by bunding and sumps 				
Windblown waste		Air / wind dispersion	 fencing surrounding the perimeter of putrescible landfill facilities must be regularly inspected for damage and cleared of windblown waste 				
Ancillary Activ	Ancillary Activities						
Hydrocarbons, contaminated surface water runoff and soil	Operation of fuel storage and refuelling facility	Direct discharge and infiltration of subsurface	 ensure potentially contaminated surface water is directed to oily water collection and treatment system 				

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020a), 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 5 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 2020b)).

Table 5: Sensitive human and environmental receptors and distance from prescribed activity

Human receptors	Distance from prescribed activity					
Kuruma Marthudunera People	Springs and pools of the Robe River have significant value for the Kuruma Marthudunera People. Approximately 500 metres (m) from the TSF3					
Environmental receptors	Distance from prescribed activity					
Public Drinking Water Source Area Bungaroo Creek Water Reserve	Intersects the southern portion of the	e prescribed premises.				
 Priority Ecological Communities (PEC) 1. <i>Triodia pisoliticola</i> (previously <i>Triodia sp.</i> Robe River) assemblages of mesas of the West Pilbara P3 2. Subterranean invertebrate community of pisolitic hills in the Pilbara P1 3. Subterranean invertebrate communities of mesas in the Robe Valley region P1 4. Stygofaunal Community of the Bungaroo Aquifer P1 	 Within 250 m of the prescribed premises boundary. Within the prescribed premises boundary. Within the prescribed premises boundary. Within the prescribed premises boundary. 					
Vegetation and Flora	Locally significant riparian vegetation communities are located approximately 100 m to the east of the fuel storage facility and 150 m east of the processing facilities. <i>Indigofera</i> sp. <i>Bungaroo Creek</i> P3 and <i>Rhynchosia</i> <i>bungarensis</i> P4 occur within the prescribe premises. <i>Triodia pisoliticola</i> P3 were recorded within 750 m of the processing facilities with some unavoidable disturbances.					
 Fauna Dasyurus hallucatus (Northern quoll) Endangered Liasis olivaceus barroni (Pilbara olive python) vulnerable Macroderma gigas (Ghost bat) vulnerable Rhinonicteris aurantia (Pilbara) (Pilbara leaf- nosed bat) vulnerable Paradraculoides kryptus (Mesa K paradraculoides) vulnerable Elanus scriptus (Letter-winged kite) P4 Notoscincus butleri (Lined soil-crevice skink (Dampier)) P4 Pseudomys chapmani (Western pebble- mound mouse) P4 	Threatened and Priority fauna found within the prescribed premises boundary. None of the threatened and priority fauna are expected to occur within or near the facilities. Interaction with subterranean communities is not expected, with exception to seepage from the TSFs. f-					
Surface water	Significant water courses intersect the prescribed premises, where the Robe River occurs along the northern portion and Jimmawurrada Creek is an ephemeral creek that occurs to the east.Other minor tributaries occur within the prescribed premises.Distances of prescribed activities to the Robe River and Jimmawurrada Creek, respectively are include below:Processing facilities2.4 kmTSF3550 mFuel storage facilities2.0 km					
Groundwater	Facilities are located where depth to expected to be more than 5 m below Interaction not expected, with excep TSFs.	o groundwater is v ground level.				

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020a) 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 6.

The revised Licence L6820/1993/12 that accompanies this Amendment Report authorises emissions associated with the operation of the Premises.

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

Risk Event				Risk rating ¹	Licence		Justification for	
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	holder's controls sufficient?	Conditions ² of licence	additional regulatory controls
Construction								
Construction of landfill facilities Vehicle movements	Dust	Air / windborne pathway causing impacts to plant photosynthesis	Nearby vegetation, particularly priority flora	Refer to Section 3.1	C = Slight L = Possible Low Risk	Y	Condition 2 (Table 1), 9, 10	N/A
Operation	L		1	I	1	I	I	
Category 5								
Secondary sized material processing, stockpiling	Dust	Air / windborne pathway causing impacts to plant photosynthesis and surface water quality	Nearby vegetation, particularly	Refer to Section 3.1	C = Slight L = Possible Low Risk	Y	Condition 3 (Table 2), 9, 10, 25	N/A
Increased processing of iron ore	Contaminated stormwater and process water runoff from leaks / burst pipes	Seepage and infiltration through subsurface impacting the quality and ecology of surface	priority flora Surface water Groundwater Robe River and pools	Refer to Section 3.1	C = Slight L = Possible Low Risk	Y	Condition 3 (Table 2), 11, 12, 25	N/A
Increased production at the thickener plant	Contaminated runoff of thickened tailings material or flocculant	water / groundwater, potential adverse health impacts as Robe River and pools, which are also used as		Refer to Section 3.1	C = Moderate L = Possible Medium Risk	Y	Condition 3 (Table 2), 11, 12, 25	N/A
Increased deposition of	Thickener seeping and	drinking / bathing source		Refer to	C = Major	Y	Condition 3 (Table 2), 11,	N/A

Table 6. Risk assessment of potential emissions and discharges from the Premises during construction and operation

Risk Event				Risk rating ¹	Licence			
Source/Activities	Potential emission	Potential pathways and impact	Receptors	Licence Holder's controls	C = consequence L = likelihood	holder's controls sufficient?	Conditions ² of licence	Justification for additional regulatory controls
thickened tailings in TSF3, 4, 5	migrating into groundwater / surface water			Section 3.1	L = Possible High Risk		12, 21, 24, 25	
Category 64	·				•			
	Dust	Air / windborne pathway causing impacts to plant photosynthesis	Nearby vegetation, particularly priority flora	Refer to Section 3.1	C = Slight L = Unlikely Low Risk	Y	Condition 3 (Table 2), 4, 5, 6, 7, 8, 25	N/A
	Stormwater run off	Seepage and infiltration through subsurface impacting the quality and ecology of surface water / groundwater, potential adverse health impacts as Robe River and pools, which are also used as drinking / bathing source	Kuruma Marthudunera People 500 m from TSF3	Refer to Section 3.1	C = Slight L = Possible Low Risk	Y	Condition 3 (Table 2), 4, 5, 6, 7, 8, 25	N/A
Operation of landfill facilities	Seepage of landfill leachate		Surface water Groundwater Robe River and pools	Refer to Section 3.1	C = Minor L =Possible Medium Risk	Y	Condition 3 (Table 2), 4, 5, 6, 7, 8, 25	N/A
	Windblown waste	Air / wind dispersion and amenity impact Contaminating surrounding land	Native fauna Surface water Robe River and pools	Refer to Section 3.1	C = Slight L = Possible Low Risk	Y	Condition 3 (Table 2), 25	N/A
Ancillary Activities	Ancillary Activities							
Operation of fuel storage and refuelling facility	Hydrocarbons, contaminated surface water runoff and soil	Direct discharge and infiltration subsurface impacting surrounding soil	Land Surface water Robe River	Refer to Section 3.1	C = Slight L = Possible Low Risk	Y	Condition 3 (Table 2), 13, 14, 15, 25	N/A

Risk Event					Risk rating ¹	Licence		luctification for
Source/Activities	Potential emission	Potential pathways and impact	thways and Receptors Holder's		C = consequence controls	holder's controls sufficient?	ntrols Conditions ² of licence	Justification for additional regulatory controls
		and groundwater	and pools					

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

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 7 provides a summary of the consultation undertaken by the department.

Table 7: Consultation

Consultation method	Comments received	Department response	
Local Government Authority advised of proposal on 13 March 2023	No comments received.	-	
Department of Planning, Land, and Heritage (DPLH) advised of proposal on 13 March 2023	Comments were received by DPLH on 13 April 2023 and stated that "only a portion of the amendment area is covered by an existing Section 18 Ministerial consentapproval under the Aboriginal Heritage Act 1972 (AHA) may be required for the additional works proposed under the amendment".	The Department will advise the Licence Holder to ensure approval is sought, if required for the proposed works under the current amendment.	
Licence Holder was provided with draft amendment on 19 April 2023	The Licence Holder's comments are detailed in Appendix 1.	The Department's response is provided in Appendix 1.	

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 8 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. Furthermore, Table 9 then provides a summary of the consolidation of licence conditions, including redundant conditions and revising the current licence format.

Table 8: Summary	/ of	licence	amendments
------------------	------	---------	------------

Condition no.	Proposed amendments			
Cover page	Updated prescribed premises category 5 – assessed production / design capacity from 13,000,000 to 20,000,000 tonnes per year.			
-	Updated the Licence history table with the current amendments.			
-	Minor grammatical amendments throughout licence.			
2, Table 1	Condition has been added to include the design and construction requirements for the construction of proposed / subsequent landfill facilities.			
3, Table 2	Condition has been added to follow the current licensing format to list operational requirements for the items of infrastructure in operation under the licence. The landfill facilities and fuel storage and refuelling facilities' operational requirements have been added to Table 2.			

Condition no.	Proposed amendments
16, Table 3	Condition has been updated with current licensing format and the addition of Table 3 to list the authorised discharge points within the prescribed premises boundary.
20, Table 4	Table 4 has been amended to include an additional column (now column) for parameter unit measurement.
21, Table 5	Table 5 has been amended to include all monitoring requirements under the licence.
24	New condition related to water balance monitoring at TSF 3, 4, and 5.
25, Table 6	Table 6 has been added to include Annual Environmental Report requirements.
27	Condition has been added as required under the current licensing format. Condition relates to recording of complaints and the actions (if undertaken) taken to address the complaint.
28	Condition has been added as required under the current licensing format. Condition relates to maintain accurate and auditable books.
29	Condition has been added as required under the current licensing format. Condition relates to the books specified under condition 27.
Schedule 2: Premises Boundary	Inclusion of the coordinates of the monitoring bores surrounding TSF3, TSF4, and TSF5 within the prescribed premises boundary.

Table 9: Consolidation of licence conditions in this amendment

Existing condition	Condition summary	Revised licence condition	Conversion notes
-	-	-	Revised to current licensing format.
All conditions	Replaced term 'Licensee'	Updated term 'Licence Holder'	Revised to current licensing definitions and terms
-	Relabelling attachments	Attachments converted to figures	Attachments 1 to 5, now Figure 1 to 5.
-	Prescribed premises category table	-	Revised to current licensing format that provides the prescribed premises category description and assessed production / design capacity.
-	Preamble	Prescribed categories have been added to the Prescribed premises category table	Revised to current licensing format where the content has been removed and the Prescribed categories have been added to the Prescribed premises category table.
-	Definitions	Definitions and Table 1	Revised to currently licensing format and moved from the start to the end of the licence conditions.
-	N/A	Licence history	Revised to current licensing format to provide a table of the amendments and changes made to the licence.
-	N/A	Interpretation section	Revised to current licensing format.
1	Annual Environmental Report	24	Revised to current licensing format. Renumbered. Table 6 has been included to listed Annual Environmental Report requirements.
2	Annual Audit Compliance Report	25	Revised to current licensing format Renumbered and conditions updated.
2	Design and construction	New condition 2	Design and construction requirements for landfill facilities.

Existing condition	Condition summary	Revised licence condition	Conversion notes	
	requirements – landfill facilities			
3	Dust Management	9	Revised to current licensing format. Renumbered.	
3	Operational requirements – all infrastructure	New condition 3	Operational requirements for all items of infrastructure on the licence.	
4	Dust collection and dust control systems	10	Revised to current licensing format. Renumbered.	
5	Stormwater Management (1)	11	Revised to current licensing format. Renumbered.	
6	Stormwater Management (2)	12	Revised to current licensing format. Renumbered.	
7	Liquid Chemical Storage (1)	13	Revised to current licensing format. Renumbered.	
8	Liquid Chemical Storage (2)	14	Revised to current licensing format. Renumbered.	
9	Liquid Chemical Storage (3)	15	Revised to current licensing format. Renumbered.	
10	Waste Management Ancillary Operations	4	Revised to current licensing format. Renumbered.	
11	Waste Management Ancillary Operations	5	Revised to current licensing format. Renumbered.	
12	Waste Management Ancillary Operations	6	Revised to current licensing format. Renumbered.	
13	Evaporation Ponds	Removed and incorporated into 3	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement.	
14(a)	Tailings storage facility - freeboard	Removed and incorporated into 3	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement.	
14(b)	Discharge of Waste Fines (Attachment 2)	Removed and incorporated into 3	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement.	
14(c)	Monitoring	21	Revised to current licensing format. Renumbered and condition updated with a table for the water monitoring schedule.	
15	Sewage Wastewater Treatment Plant	Removed and incorporated parts into 3, 16, 18, and 21	Revised to current licensing format. Condition has been incorporated into condition 3, 16, 18, and 21	
16	Mine Dewatering Discharges	Same condition number	Revised to current licensing format. Condition updated with a table for the water monitoring schedule. Subheading now 'Authorised Discharged Point'	
17	Mine Dewatering Discharge – Erosion Control	Same condition number	Revised to current licensing format. Removed subheading.	
18	Water Monitoring	19	Revised to current licensing format. Inclusion of subheading 'Monitoring – Water Monitoring'.	
19	Dewatering Monitoring	Removed and incorporated into 21	Revised to current licensing format. Condition has been incorporated into condition 21, Table 5 as monitoring requirement.	
20	Monitoring (Australian Standards)	22	Revised to current licensing format. Renumbered.	

Existing condition	Condition summary	Revised licence condition	Conversion notes
21	Monitoring (laboratory analyses)	23	Revised to current licensing format. Renumbered.
22	Monitoring (discharge sites)	20	Revised to current licensing format. Renumbered. Add column 2 for unit measurement to table 4.
23(a)	Management of inert Waste Dump landfill (1)	Removed and incorporated into 3	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement.
23(b)	Management of inert Waste Dump Iandfill (2)	Removed and incorporated into 3	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement.
24	Management of inert Waste Dump landfill (3)	Removed and incorporated into 3	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement.
24	Water balance	New condition 24	Inclusion of water balance monitoring for TSFs.
25	Management of inert Waste Dump landfill (4)	Removed and incorporated into 3	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement.
26	Management of inert Waste Dump landfill (5)	Removed and incorporated into 2	Revised to current licensing format. Condition has been incorporated into condition 2, Table 1 as an operational requirement.
27	Reporting condition – Complaints	New condition 27	Inclusion of reporting condition related to complaints recording. Included to follow current licensing format.
27	Management of inert Waste Dump landfill (6)	Removed and incorporated into 2	Revised to current licensing format. Condition has been incorporated into condition 2, Table 1 as an operational requirement.
28	Reporting conditions – Auditable books	New condition 28	Inclusion of reporting condition related to maintaining accurate and auditable books. Included to follow current licensing format.
28	Disposal of Tyres (1)	7	Revised to current licensing format. Renumbered.
29	Reporting conditions – books	New condition 29	Inclusion of reporting condition related to the requirements of the auditable books. Included to follow current licensing format.
29	Disposal of Tyres (2)	8	Revised to current licensing format. Renumbered.
30	Mobile Crushing and Screening Plant	1	Revised to current licensing format. Renumbered.
31	WWTP Construction	Removed and incorporated operational parts into 3.	Revised to current licensing format. Condition has been incorporated into condition 3, Table 2 as an operational requirement. Construction requirements have been removed as the WWTP is now operational.
32	WWTP Construction Compliance and Commissioning (1)	-	Removed as construction and compliance reporting has been completed.
33	WWTP Construction Compliance and Commissioning (2)	-	Removed as construction and compliance reporting has been completed.
34	WWTP Construction Compliance and Commissioning (3)	-	Removed as construction and compliance reporting has been completed.

Existing condition	Condition summary	Revised licence condition	Conversion notes
35	WWTP Construction Compliance and Commissioning (4)	-	Removed as commissioning and compliance reporting has been completed.
36	WWTP Construction Compliance and Commissioning (5)	-	Removed as commissioning and compliance reporting has been completed.
37	WWTP Construction Compliance and Commissioning (6)	-	Removed as commissioning and compliance reporting has been completed.
38	WWTP Construction Compliance and Commissioning (7)	-	Removed as commissioning and compliance reporting has been completed.
39	WWTP Effluent Monitoring	Removed and incorporated into 21	Revised to current licensing format. Condition has been incorporated into condition 21, Table 5 as a monitoring requirement.
40	WWTP - General	Removed and incorporated into 16	Revised to current licensing format. Condition has been incorporated into condition 16, Table 4 as an authorised discharge point.
41	WWTP biosolids management	18	Revised to current licensing format. Inclusion of subheading 'WWTP'.
-	Annual Audit Compliance Report form	-	Removed as form is no longer used.
-	Attachment 1 – Plan of premises	Figure 1	Updated Attachment 1 to Figure 1: Map of the boundary of the prescribed premises, tailings storage facilities, and infrastructure.
-	Attachment 2 – Tailings storage facility including locations of groundwater monitoring bores	Figure 3	Updated Attachment 2 to Figure 3: Mesa J monitoring bore locations.
-	Attachment 3 – Mesa J Discharge Points	Figure 3	Updated Attachment 3 to Figure 2: Mesa J Discharge Points.
-	Attachment 4 – Waste Dump Landfill	Figure 4	Updated Attachment 4 to Figure 4: Mesa J waste dump landfill and proposed / subsequent landfill facilities.
-	Attachement 5 – Layout of WWTP and sprayfield	Figure 5	Updated Attachment 5 to Figure 5: Layout of WWTP and sprayfield.

References

- 1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
- 2. Department of Water and Environmental Regulation (DWER) 2020a, *Guideline: Risk* Assessments, Perth, Western Australia.
- 3. DWER 2020b, *Guideline: Environmental Siting*, Perth, Western Australia.

Appendix 1: Summary of licence holder's comments on risk assessment and draft conditions

Condition	Summary of Licence Holder's comment	Department's response
3, Table 2	Tailings Storage Facilities (TSF) 3, 4, and 5	Updated.
	 monthly inspection of the decant pond location and standing water level. 	
	The License holder requests the deletion of standing water level from Condition 3, Table 2. Monitoring of standing water level is already a Monitoring Requirement addressed in Condition 21, Table 5: Water Monitoring Schedule (rather than an Operational Requirement).	
3, Table 2	Processing Facilities	Updated.
	 regular [applicant to indicate frequency] inspections and maintenance to collect / remove material if potential dust risk; 	
	The License holder requests the frequency of inspections and maintenance be weekly, aligned to the existing process.	
	daily inspections of pit walls, embankments, and discharge location for integrity / damage;	The Department has included the three specified operational
	daily inspections of tailings delivery and return pipelines for integrity, damage, and potential leaks; and	requirements under the TSF operational requirements with the
	 in the event of a pipe break or leak, spill is to be contained within a corridor or remediated. 	removal of "return pipelines". In
	The License holder considers these 'Operational Requirements' relate to Tailings Storage Facilities and requests that Table 2 is updated reflect this.	addition, the latter two operational requirements have remained under the Processing Facilities operational requirements with the removal of "tailings delivery pipelines" reference.
3, Table 2	WWTP and Irrigation Sprayfield	Amended.
	Grammatical error	
	 ; and • operation and maintenance undertaken in accordance with manufacturer's requirements; and • treated effluent to the following standards: 	
3, Table 2	• fire wastewater to be contained on site, contaminated surrounding soil to be removed; [applicant to indicate	Updated.

Condition	Summary of Licence Holder's comment	Department's response
	where contaminated soil is disposed of]	
	The License holder requests the deletion of this Operational Requirement, the Licence holder would not experiment wastewater to be generated at the Mesa J Hub.	ect fire
	 [applicant to propose controls e.g., weekly, or fortnightly inspections and collection of windblown was around the perimeter of the landfill facility] The License holder requests the deletion of this Operational Requirement, the collection of windblown waste the perimeter of the landfill facility, is already captured in Condition 3, Table 2, as follows: fencing surrounding the perimeter of putrescible landfill facilities must be regularly inspected for dam cleared of windblown waste. 	around
21, Table	Groundwater Sites	Updated.
5	The Licensee requests that the list of groundwater monitoring bores associated with TSF3, 4 and 5 be update include groundwater monitoring bores required by Condition 2, Table 2 of W6425/2020 (and also consistent v monitoring locations provided in Condition 11, Table 4 of W6495/2021):	
	JMB09 MB16MEJ0003	
	MB14MEJ001 MB16MEJ0006	
	MB15MEJ004 MB17MEJ0005	
	MB16MEJ0008 TSF5:	
	MB21MEJ0001 MB14MEJ004	
	MB21MEJ0002 MB19MEJ0001	
	MB21MEJ0003 MB19MEJ0002	
	MB21MEJ0004 MB22MEJ0007	
	MB21MEJ0005 MB22MEJ0008	
	MB21MEJ0006 A figure showing the location of the groundwater monitoring bores associated with TSF3, 4 and 5 is attached.	
21, Table	TSFs-TSF3, 4 and 5	Updated.
5	The Licence holder requests the following revision to the description of the Monitoring Site, consistent with Co 3, Table 2:	ondition
	Monitoring Site	
	TSFs-TSF3, 4 and 5	
	Supernatant water from TSF3, TSF4, and TSF5	
21, Table 5	Monthly Quarterly (during TSFs receiving thickened tailings). The License holder requests the frequency of monitoring supernatant water be revised from monthly to quarter align with the frequency of groundwater monitoring (for the same parameters). If the frequency of monitoring	Updated. erly to

Condition	Summary of Li	cence Holder's	comment		Department's response
		ter and groundw edule, to rational			
	Monitoring Site	Frequency	Parameter	1	
	TSF3, 4 and 5				
	Supernatant water	Quarterly (when depositing tailings)	Standing Water level pH		
	Groundwater List groundwater monitoring bores (provided above)	Annually	EC TDS Total Hardness (CaCO3) Major Ions – Na, K, Ca, Cl, Mg and SO4 Metals – Cu, Fe, Mn, As, Cd, Cr, Ni, Co, Mn, Se, B, Hg, Mo, Sb, Zn and TI Total Nitrogen (NO3) Acrylamide		
21, Table 5	Mine Dewatering Sites Dewatering Discharge Points				Updated.
	Sites (Dewateri Total Recovera Major ions – Na Metals – Al, Pb Hydrocarbons	, Cu, Fe, Mn, Zn	Amended.		
24	Tailings Stora The License h period (when • (a) site rainfa • (b) evaporat • (c) decant w • (d) volume c		Updated.		
25	The License ho	1, 22, 23 (reporti Ider seeks the re	Updated.		
		will be provided			

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY								
Application type								
Works approval								
Licence		Relevant works approval number:		None				
		Has the works approval been complied with?		Yes □	No 🗆			
		Has time limited operations under the works approval demonstrated acceptable operations?		Yes □	No 🗆 N/A 🗆			
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?		Yes 🗆 No 🗆				
		Date Report received:						
Renewal		Current licence number:						
Amendment to works approval		Current works approval number:						
Amendment to licence	X	Current licence number:	L6820/1993/12	//1993/12				
		Relevant works approval number:	W6425/2020/1	N/A				
Registration		Current works approval number:		None				
Date application received		22/12/2022						
Applicant and Premises details								
Applicant name/s (full legal name/s)		Robe River Mining Co. Pty Ltd						
Premises name		Mesa J and K Iron Ore Mine						
Premises location		ML248 SA Fortescue WA 6716						
Local Government Authority		Shire of Ashburton						
Application documents								
HPCM file reference number:		DER2014/000766-1~5 DER2014/000766-1~4						
Key application documents (additional to application form):		Attachment 1C: Authorisation to act as a representative of the occupier Attachment 2: Premises Maps Attachment 8A: Licence Amendment Application Supporting Document Attachment 8B: Groundwater Monitoring Data Attachment 8C: Groundwater Monitoring Bore Locations Attachment 8D: WWTP Compliance Letter Attachment 8E: Acrylamide Monitoring Memo PDE0174162v3_MineLayout						

	PDE0174163v3_MineLayoutTSF					
	PDE0174164v2_Design_Pro PDE0174165v2_Design_Pro					
	PDE0174165v2_Design_FrocessFranz PDE0174166v3_FuelStorage					
	PDE0174176v2_Design_Re	fuelling_Facility				
Scope of application/assessment						
	Licence amendment for the following:					
Summary of proposed activities or hanges to existing operations.	 Category 5: Processing of ore (20,000,000 tonnes per annual period) – ongoing operation of the Ore Processing Facility (OPF) infrastructure; Category 64: Landfill facilities (2,000 tonnes per annual period) – construction and operation of landfill facilities for the ongoing disposal of up to 2,000 tonnes of wastes per annual period at the operations; Ongoing operation of fuel storage and refuelling facilities; Update groundwater monitoring locations to reflect changes to the groundwater monitoring bores as constructed under Works Approval W6425/2020/1; Update condition 31 with the specifications, 186 m3/day throughput, Total Nitrogen 20 mg/L and Total Phosphorus 8 mg/L; Remove monitoring requirements for anionic polyacrylamide as no methods for analysis are available in Australian commercial laboratories; and Other administrative amendments. 					
	ause the premises to become pro					
	ause the premises to become pro					
able 1: Prescribed premises categor Prescribed premises category	ause the premises to become pro pries Assessed production or	escribed premises) Proposed changes to the production or design capacity				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non-	ause the premises to become pro pries Assessed production or design capacity	Proposed changes to the production or design capacity (amendments only)				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year	Proposed changes to the production or design capacity (amendments only) 20,000,000 tonnes per year				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore Category 6: Mine dewatering Category 12: Screening, etc. of	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year 30 Gigalitres per year	Proposed changes to the production or design capacity (amendments only) 20,000,000 tonnes per year No change				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore Category 6: Mine dewatering Category 12: Screening, etc. of material Category 54: Sewage facility:	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year 30 Gigalitres per year 10,000,000 tonnes per year	Proposed changes to the production or design capacity (amendments only) 20,000,000 tonnes per year No change No change				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore Category 6: Mine dewatering Category 12: Screening, etc. of material Category 54: Sewage facility: premises	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year 30 Gigalitres per year 10,000,000 tonnes per year 183 m³ per day	Proposed changes to the production or design capacity (amendments only) 20,000,000 tonnes per year No change No change No change				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore Category 6: Mine dewatering Category 12: Screening, etc. of material Category 54: Sewage facility: premises Category 61A: Solid waste facility Category 64: Class II inert landfill	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year 30 Gigalitres per year 10,000,000 tonnes per year 183 m³ per day 16,000 tonnes per year 2,000 tonnes per year	Proposed changes to the production or design capacity (amendments only) 20,000,000 tonnes per year No change No change No change No change No change				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore Category 6: Mine dewatering Category 12: Screening, etc. of material Category 54: Sewage facility: premises Category 61A: Solid waste facility Category 64: Class II inert landfill site	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year 30 Gigalitres per year 10,000,000 tonnes per year 183 m³ per day 16,000 tonnes per year 2,000 tonnes per year	Proposed changes to the production or design capacity (amendments only) 20,000,000 tonnes per year No change No change No change No change No change No change				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore Category 6: Mine dewatering Category 12: Screening, etc. of material Category 54: Sewage facility: premises Category 61A: Solid waste facility Category 64: Class II inert landfill site egislative context and other approver Has the applicant referred, or do they intend to refer, their proposal to the E	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year 30 Gigalitres per year 10,000,000 tonnes per year 183 m³ per day 16,000 tonnes per year 2,000 tonnes per year vals	Proposed changes to the production or design capacity (amendments only) 20,000,000 tonnes per year No change Referral decision No:				
Table 1: Prescribed premises category Prescribed premises category and description Category 5: Processing or beneficiation of metallic or non- metallic ore Category 6: Mine dewatering Category 12: Screening, etc. of material Category 54: Sewage facility: premises Category 61A: Solid waste facility Category 64: Class II inert landfill site egislative context and other approver Has the applicant referred, or do they	ause the premises to become propries Assessed production or design capacity 13,000,000 tonnes per year 30 Gigalitres per year 10,000,000 tonnes per year 183 m³ per day 16,000 tonnes per year 2,000 tonnes per year	Proposed changes to the production or design capacity (amendments only)20,000,000 tonnes per yearNo changeNo changeNo changeNo changeNo changeNo changeNo changeNo change				

1		
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes 🗵 No 🗆	Ministerial statement No: 1141 EPA Report No: 1668
Has the proposal been referred and/or assessed under the EPBC Act?	Yes 🗆 No 🛛	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes 🗆 No 🗆 N/A 🗵	Certificate of title General lease Expiry: Mining lease / tenement Expiry: Other evidence Expiry:
Has the applicant obtained all relevant planning approvals?	Yes 🗆 No 🗆 N/A 🛛	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 🗆 No 🛛	CPS No: 4397 & 5639 No clearing is proposed.
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes 🗆 No 🛛	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes 🗆 No 🛛	Application reference No: Licence/permit No: 107678 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 □ No ⊠	Name: PilbaraType: Proclaimed GroundwaterArea/Surface Water AreaHas Regulatory Services (Water)been consulted?Yes □ No ⊠ N/A □Regional office: North West
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes ⊠ No □	Name:BungarooCreekWaterReservePriority:P1Are the proposed activities/ landusecompatible with the PDWSA (refer toWQPN 25)?Yes ⊠ No □ N/A □

Is the Premises subject to any other Acts or subsidiary regulations (e.g. Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx)	Yes ⊠ No □	Iron Ore (Robe River) Agreement Act 1964
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes 🗆 No 🗵	
Is the Premises subject to any EPP requirements?	Yes 🗆 No 🛛	
Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ?	Yes 🗆 No 🛛	Classification: N/A Date of classification: N/A